

OPERATORS MANUAL

Suction Sweeper Unit



INTRODUCTION

Dear Customer

Thank you for buying an Egholm product

The Egholm 2100 is a Danish designed and manufactured product which offers a very flexible way of maintaining outdoor areas.

Get the optimal use of your Egholm Snow sweeper:

To ensure the optimal performance of your Egholm Snow sweeper, please read this operator's manual carefully before starting to use the machine. Failure to do so can result in personal injury and damage to the machine.

Safety:

The Suction Sweeper Unit is equipped with various devices to ensure optimal operational safety both for the user and the surroundings. We therefore ask you to pay particular attention to Section 1.1 Safety. The machine must only be serviced by professionals.

The Suction Sweeper Unit is intended for professional use only. On delivery, the user will receive thorough instructions in the use of the machine and will thus become a competent operator. Do not lend the machine to anyone who has not been thoroughly trained and has not read this manual carefully.

The operator's manual should be considered as a permanent part of the machine and must remain with it if the machine is sold.

Warnings:

Some items in this operator's manual are marked with this warning symbol.



The warning indicates areas where extra care has to be taken to avoid personal injury or damage to the machine and its accessories. The warning also shows what you should pay special attention to.

Reservations:

As it is the Egholm policy to make continuous improvements, we reserve the right to alter the specifications and equipment at any time without notice. Egholm Maskiner A/S accepts no liability for errors or shortcomings in the operator's manual.

Contact us:

Should you have questions of any kind regarding your new Egholm product, do not hesitate to contact Egholm Maskiner A/S.

Best regards

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1. General information

The Egholm suction sweeper unit is the most effective choice for maintenance sweeping tasks on footpaths, pavements, car parks, stairwells etc. The sweeper unit features a fibreglass high tip hopper, a rotation cast fresh water tank and twin front brushes. It is a robust and compact machine with low noise operation.

The dust is fully under control with the Egholm suction sweeper unit. Two spray jets mounted on the front brushes dampen the sweeping area and bind the dust. The collecting tank features an innovative filter system binding even the smallest dust particles inside the tank. Hopper discharge follows directly from the drivers seat.

Mounting and dismounting of the suction sweeper unit is quick and easy with the special designed roller stand. The front brushes and the collecting tank are dismantled directly on the stand, which ensures the driver an easy handling and a minimum storage room.

Additional Side Brush - Optional

A hydraulically operated third brush increases the sweeping path to 1660 mm and makes it easy to keep also hard accessible angles and corners neat and clean.

Remote vac hose - Optional

The remote vac hose is ideal for the cleaning of places with difficult access like between parked bicycles, on basements stairs etc. The 6 m long hose is kept on the top of the container and is always within reach.

Three-way-valve - Optional

The three-way-valve allows discharge directly from the drivers seat without reconnecting the hydraulic couplings. Recommended when working with the third brush.

Adjustment of the brush speed - Optional

When sweeping in dry sweeping conditions the brush speed can be adjusted in order to reduce the amount of dust swirled up by the rotating brushes.

1. GENERAL INFORMATION

1.1 Safety

Assembly:

Check that the bonnet is closed and locked before mounting the sweeper unit. (Picture 1)

Make sure that the container is mounted correctly, and that the locking handle is left in locked position. (Picture 2)



Keep a safe distance to the suction sweeper unit

Make sure that no person stays in close range of the machine while in operation.



Caution

Due to the articulated steering the machine rear end swings out when turning. Always keep a safe distance!



Avoid getting fingers caught mounting the container

Beware of your fingers when lowering the container.



Avoid blows from the lever when mounting the container

Avoid blows from the lever when lowering the container. Keep a firm grip of the lever until the container rests safely on the machine. (Picture 3)



Reduce noise level and energy consumption

In order to reduce both noise level and energy consumption, it is recommended to avoid excessive motor speeds.



Avoid damage to your hearing:

Always wear approved ear protectors when using the machine. (Picture 4)



Close and lock the bonnet



Locked position



Lowering the container

4



Wear ear protectors

1. GENERAL INFORMATION



Avoid accidents caused by tipping:

Do not run the machine where it may slide or tip over. Do not run the machine on slopes or inclines exceeding 10°. (Picture 1)



The container is fitted with a load cell, which is activated, when the container load reaches 300 kg.

When the alarm sounds, the container must be emptied.



Attention!

The load cell must be checked daily, before sweeping. (Refer to section 2.3.4)



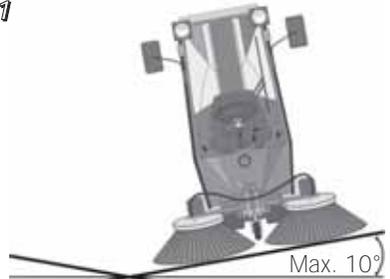
The load cell must be calibrated each month. (Refer to section 2.6.4)



Before emptying the suction tank, make sure that:

- a. The machine is on a level surface, and that it is "straight".
- b. That there is sufficient space for the open back cover and for the external suction hose, if fitted!

1



Do not run the machine on slopes or inclines exceeding 10°

The cab of the Egholm 2100 is approved as a roll-over protection structure. (ROPS)
It is recommended that this cab be fitted for operation in areas with a high risk of tipping.

1. GENERAL INFORMATION

1.3 Technical Data

Dimensions:

Suction sweeper unit, standard with twin front brushes:		
	Mounted:	Storage Dimensions:
Length (L):	2900 mm	1350 mm
Width (W):	1200 mm	1010 mm
Height without cab (H):	1850 mm	1920 mm
Height with cab:	1935 mm	
Height with remote vac hose:	2200 mm	



Side view of suction sweeper unit

Suction Sweeper Unit, with additional side brush:

	Mounted:	Additional Side Brush
		Storage Dimensions
Max. length (L):	3550 mm	750 mm
Max. width (B):	1660 mm	600 mm
Side Brush Height (H):	450 mm	450 mm



Front view of suction sweeper unit

Technical data:

Container volume:	450 L
Water tank volume:	100 L
Swept width:	1200 mm
Swept width with additional Side brush:	1660 mm
Tipping Height above driving surface:	1300 mm
Clearance below suction nozzle:	55 mm
Clearance below brushes:	140 mm

Swept area at 5-8 km/h.: 5000-8000 m²/h depending on surfacing and on the objects swept.
 Hydraulic Oil: Texaco Rando HDZ 32 or similar.



Remote vac hose

Water capacity:	1 jet sprayer	approx. 2.5 h
	3 jet sprayers	approx. 1.5 h

Noise output level according to the ECC-norm 2000/14: LwA 107 dB

Note:

Specifications may be changed without prior notification.



Suction sweeper unit and additional side brush

2. INSTRUCTIONS FOR USE

2.1 Assembly of roller stand

You will find the roller stand collapsed and suspended on the container. Before use the roller stand is to be assembled as follows:

1. Lift down the roller stand from the container and unfold.
2. Assemble the roller stand with the two bolts included and it is ready for use.

Transporting the roller stand:

During transport, disassemble the roller stand in reverse order and resuspend it on the container.



Important!

Always remove the roller stand from the container before discharge!



Transport of roller stand



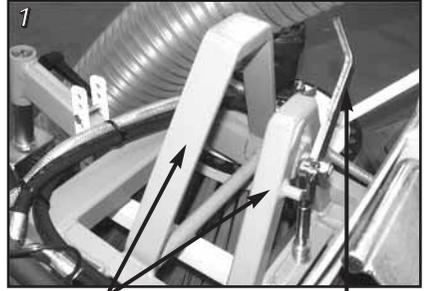
Two bolts on the roller stand

2. INSTRUCTIONS FOR USE

2.2 Assembly / disassembly

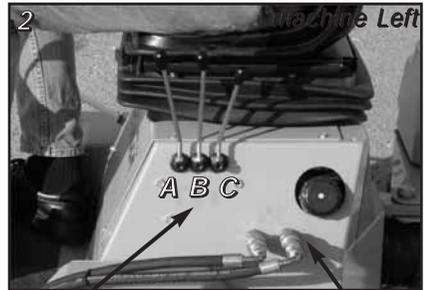
Mounting of Standard Brushes:

1. Turn the locking handle all the way to the left. (Picture 1)
2. Approach the front brushes with the machine until the two A-frames interlink.
3. Lift the A-frame using lever A on the machine left side until the brushes are suspended freely above the ground. (Picture 2)
4. Lock the front brushes on the A-frame by pushing the lock handle all the way to the right.
5. Connect the two hydraulic hoses from the front brushes with the B-outlets on the machine left side. (Picture 2)
6. Fasten the hydraulic hoses with a rubber ring to a catch under the footboard in order to ensure that the hoses lie correctly over the guard. (Picture 3)



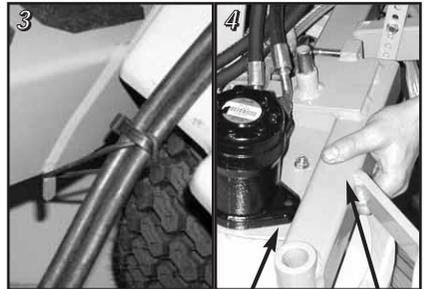
A-frames

Locking handle



Lever A, B, C

B-outlets



Fasten with rubber ring Remove bolt-Fittings

Before mounting the additional side brush:

When the additional side brush is ordered together with the suction sweeper unit, the front brushes will be prepared for the extra brush upon delivery.

When the additional side brush is ordered separately, the twin front brushes will have to be prepared for the extra brush by means of an arm to be mounted on the front brushes before the first use. Mount the arm as follows:

1. Remove the bolt on the right front brush. (Picture 4)
2. Screw fittings together. (Picture 4)
3. Mount the fittings for the spray jet with the bolt. (Picture 5)
4. Tighten the bolt to 45 Nm.
5. The arm is now fixed and ready for use.



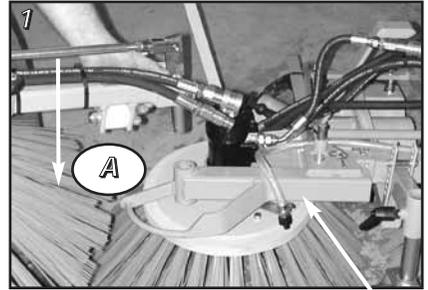
Mount the fittings with the bolt

2. INSTRUCTIONS FOR USE

Mounting the additional side brush

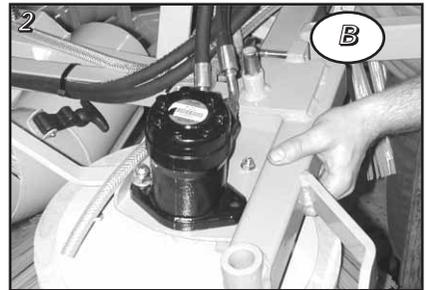
(without 3-way-valve):

1. Lower the side brush down into the arm (Picture 1) and secure with safety split (A).
2. Mount the cylinder and secure with safety split (B). (Picture 2)
3. Lead the hydraulic hoses along the machine **right side** behind the cab and connect with the outlets C1 and C2 on the rear chassis left side. (Picture 3)



Mounting the side brush

Arm



Secure with safety split (B)

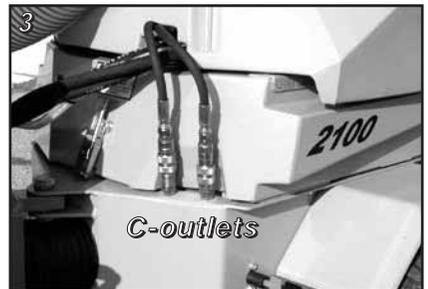
Additional side brush and three-way-valve:

The three-way-valve enables you to operate the additional side brush and empty the container without reconnecting the hydraulic hoses. The three-way-valve is mounted under the container whereupon it forms an integral part of the suction sweeper unit. Contact your authorized Egholm dealer for ordering. He will also assist in mounting.

Mounting the additional side brush

(with 3-way-valve):

1. Lower the side brush down into the arm (Picture 1) and secure with safety split (A).
2. Mount the cylinder and secure with safety split (B). (Picture 2)
3. Lead the hydraulic hoses along the machine right side behind the cab and connect with the outlets of the three-way-valve. (Picture 4)



C1 and C2



IMPORTANT Before starting!

The hydraulic hoses must be connected to the outlets of the three-way-valve before starting or there will be pressure in the three-way-valve



Three-way valve outlet

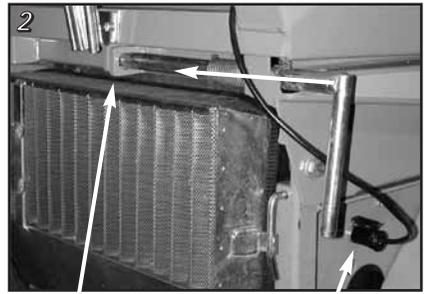
2. INSTRUCTIONS FOR USE

Mounting the container:

1. Check that the engine bonnet is locked before mounting the sweeper unit. (Picture 1)
2. Back the machine up to the container, which is stored on the roller stand, and stop the engine - refer to the instruction manual for Egholm 2100 basic unit, paragraph 2.2
3. Push the roller stand with container over the bonnet and leave approx. 5 cm of the container to project to the rear.
4. Press down the lever, push the lock catch free from the beard and lower the container slowly down over the machine. (Picture 1)
5. Release the roller stand and pull away.
6. Push the container forwards into place.
7. Make sure that the locking handle is left in locked position - shake the container slightly to test a correct fit. (Picture 2)
8. Connect the 12 Volt plug on the machine right side.
9. Connect the three hydraulic hoses to the outlets D1, D2, D3 on the machine right side. (Picture 3)
10. Connect the water hose. (Picture 3)
11. Attach the suction hose to the suction mouth. (Picture 4)
12. When mounting the sweeper unit with twin front brushes, connect the two small hydraulic hoses to the outlets C1 and C2 on the rear chassis. (Picture 3) When working with additional side brush without three-way-valve, do not connect these two hoses until the container is to be discharged.

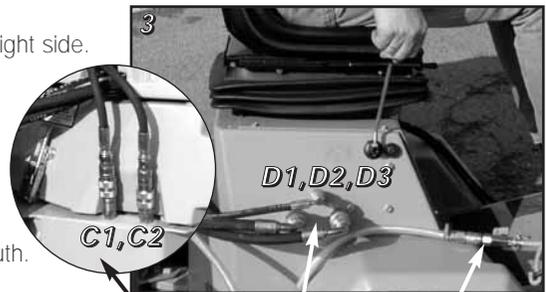


Lowering the container



Locked position

12 Volt plug



C-outlets

D-outlets

Water hose



Attach the suction hose to the suction mouth



Caution!

Avoid getting your fingers caught and keep a firm grip of the lever when lowering the container.

2. INSTRUCTIONS FOR USE

Before mounting the remote vac hose:

When the remote vac hose is ordered together with the suction sweeper unit, the container will be prepared for the hose upon delivery.

When the remote vac hose is ordered separately, the container will have to be prepared for the hose by means of a support ring and a transport lock to be mounted on the container before the first use. Mount the support ring and the transport lock as follows:

Support ring:

1. Dismount the top grating (Picture 2) by loosening the four screws on the front of the grating.
2. Mount the support ring and the nylon disc in the rough-bored holes on the container. (Picture 1)
3. Remount the top grating.

Transport lock:

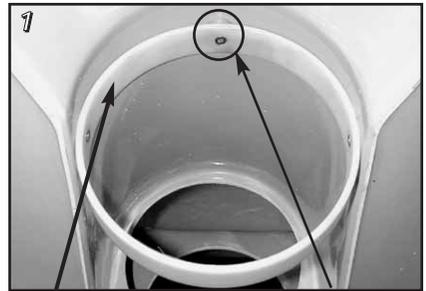
1. Put a nylon block on both ends of the transport lock.
2. Mount the transport lock by pressing the nylon blocks into the fourth row (from behind) of the top grating (hole in the ball catch pointing upwards). (Picture 2)
3. The support ring and the transport lock now form an integral part of the suction sweeper unit, and the remote vac hose can be mounted.

Mounting the remote vac hose:

Mount the remote vac hose by lowering it down into the hole on the top front side of the container. (Picture 3)

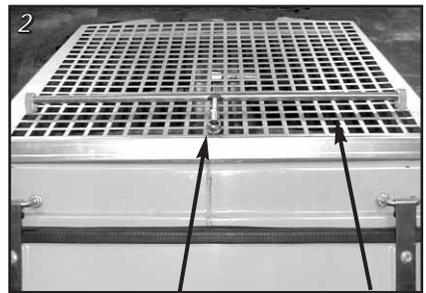
Working with the remote vac hose:

Reduce the suction power and pull down the remote vac hose from the storage case on the top of the container. The remote vac hose is now ready for use. (Picture 4)



Support ring

Nylon disc



Transport lock

Top grating



Mounting

Ring

Storage case

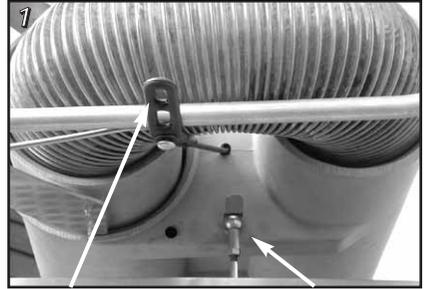


Remote vac hose in use

2. INSTRUCTIONS FOR USE

Transport of the remote vac hose:

1. Start the suction sweeper unit and set the air flow to the remote vac hose. (Compare picture 4, page 15 - switch handle).
2. Enter the remote vac hose into the storage case and let the hose be contracted by the vacuum.
3. Attach the rubber strap. (Picture 1)
4. Lock the transport lock.



Rubber strap

Transport lock

Note: When driving short distances, the vac hose can be left uncontracted in the storage case. In that case beware of the hose not getting caught in anything on the way.

Dismounting the suction sweeper unit:

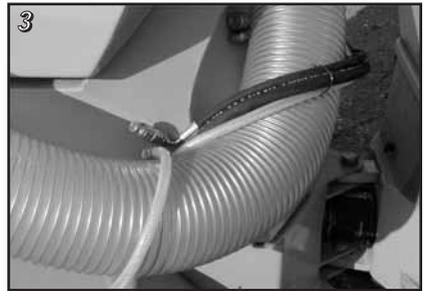
Like mounting, just in reverse order.

DON'T FORGET when dismounting!

1. Disconnect the suction hose from the front brushes and hook it on the fittings to the right below the container opening. (Picture 2)
2. Remove the 12 Volt plug.
3. Disconnect the hydraulic hoses and the water hose - suspend them around the suction hose to avoid them getting jammed by the next mounting. (Picture 3)



Fittings for suction hose



Storage of hydraulic and water hoses



Caution!

Make sure that all hydraulic and water hoses have been disconnected and that no hoses are caught in something when driving away from the container.

Dismounting the additional side brush:

Like mounting, just in reverse order. (page 10)

If sweeping is to be continued after having dismantled the additional side brush, connect the two hydraulic hoses in front of the brushes.

2. INSTRUCTIONS FOR USE

2.3 Important before starting

1. Water filling:

Filling the water tank before starting is **important**. (Picture 1)

The suction sweeper unit comes standard with 3 jet sprayers: one in the container and one on each of the twin front brushes. (Picture 2 and 3)

The water capacity is enough for about 1.5 hours of work when using all jet sprayers, or for about 2.5 hours when using only the jet sprayer inside the container.

2. Control of turbine and filter

Check the turbine and the filter and remove possible dirt - refer to paragraph 3.1

3. Adjustment of the brushes

In order to ensure the brushes a long lifetime it is important that they are adjusted correctly, so that the brushes do not apply too much pressure on the ground. Refer to paragraph 2.6.

4. Load cell check:

1. Plug the 12 v connector into the power output.
2. Turn the ignition to first position.
3. Switch on the power output.
4. Pull on the wire at the rear of the container. (Picture 4)

The alarm will sound. If there is no alarm, check the load cell.



Attention!

The suction sweeper unit must only be used with fully functional load cell and water pump in the container!



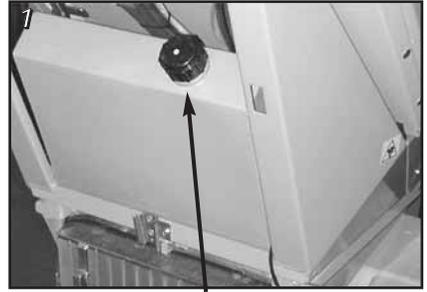
Note:

Stop the engine immediately in case of unbalance or vibrations in the filter or the turbine.



Note:

A level switch ensures that the water pump stops automatically when the water tank is empty.



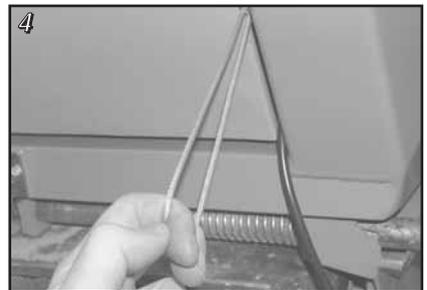
Filling of water



Water jet in container



Water jets in front of the two standard brushes

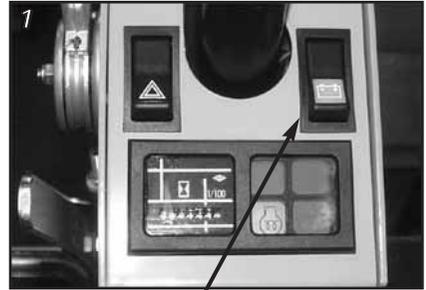


Pre-start test - pull wire

2. INSTRUCTIONS FOR USE

2.4 Start-Up

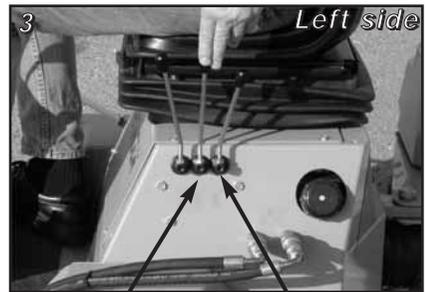
1. Start the engine - refer to the instruction manual for Egholm 2100 basic unit, paragraph 2.2
2. Switch the power output on, the water pump will start and the overload alarm will sound if overload in the container. (Picture 1)
3. If the two front-mounted jet sprayers are to be activated, open the tap on the water hose on the machine right side. (Picture 2)
4. Start the suction sweeper unit by pushing lever D (on the machine right side) slowly upwards into position 1. (Throttle hand lever being at least in half throttle position). (Picture 2)
5. Activate the brushes by pushing lever B (on the machine left side) into position 1. (Picture 3)



Power outlet button



DTap for front-mounted jet sprayers



Lever B

Lever C



Attention!

Ensure the power output is always switched on when sweeping, otherwise the load cell and water pump will not work.

Activating the additional side brush:

If an additional side brush is mounted, this is activated automatically together with the twin front brushes when pushing lever B into position 1. (Picture 3)

The additional side brush is operated with lever C on the machine left side. (Picture 3)

Switching between the remote vac hose and the front brushes:

Turn the switch handle to redirect the flow between the remote vac hose and the front brushes. (Picture 4)



Switch handle

2. INSTRUCTIONS FOR USE

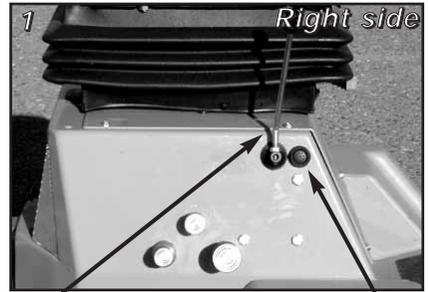
Activating attachments from outside the cab - only for the remote vac hose:

1. Park the machine with the parking brake **locked**.
2. Press the button for conscious activating of implements while activating lever D. (Picture 1)



Avoid accidents caused by tipping:

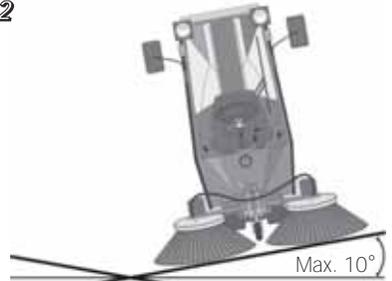
Do not run the machine where it may slide or tip over. Do not run the machine on slopes or inclines exceeding 10°. (Picture 2)



Lever D

Contact

2



Do not run the machine on slopes or inclines exceeding 10°

2. INSTRUCTIONS FOR USE

2.5 Container Discharge

If the alarm sounds, empty the container.

Container discharge follows either directly into a skip or on the ground. The container has a discharge height of 130 cm.



Note!

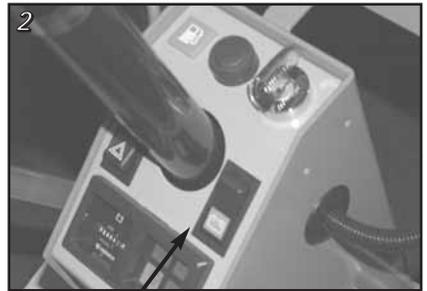
Before container discharge make sure that:
a) The machine is horizontal and not "broken"
b) There is enough space around the container to open the tailgate and for the remote vac hose, if this is mounted.

1. Stop the turbine by pushing lever D (on the machine right side) into neutral position. (Picture 1)
2. Switch the power output off, hereby de-powering the water pump and overload alarm. (Picture 2)
3. Drive to the nearest rubbish tip.
4. Container discharge follows by pushing lever C slowly into position 1. (Picture 3)
5. When the container is discharged, push lever C slowly into position 2 to lower the container. Make sure that the container is fully lowered before releasing lever C. (Picture 3)
6. Turn the engine off.
7. Move lever C once up and down to equalize the hydraulic pressure, otherwise the alarm will sound when power output is switched on. (Picture 3)
8. Start the engine.
9. Switch output power on before sweeping continues. (Picture 2)

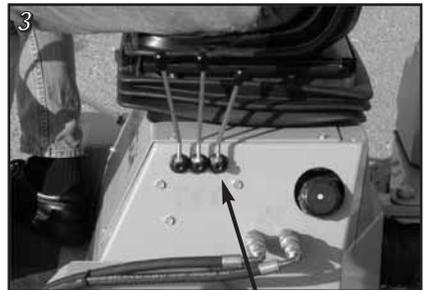
Empty the container every day after use.



Lever D



Switch off power



Lever C



Container discharge

2. INSTRUCTIONS FOR USE



Important!

In order to avoid personal injury, never open the tailgate before the turbine has stopped! After switching off the turbine, the turbine will keep running for approx. 15 sec.



Make sure that no person gets trapped during container discharge.



Make sure that the container is fully lowered after discharge!

Container discharge with additional side brush:

If the suction sweeper unit is equipped with a three-way-valve, discharge follows as described in paragraph 2.5, using lever C.

If the suction sweeper unit has no three-way-valve, the hydraulic hoses have to be reconnected before discharge: First disconnect the additional side brush from the outlets C1 and C2. Then connect hydraulic hoses from the container to the outlets C1 and C2. (Picture 1)



Hydraulic hoses from container on C-outlets



Nose wheel for brush adjustment

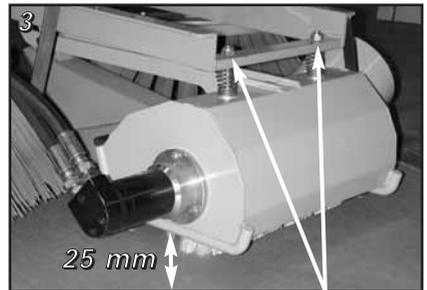
2.6 Adjustment

1. Brush adjustment:

Adjust the brushes by raising or lowering the nose wheel. Set the brushes to touch the surface just enough to obtain full sweeping width letting half of the brush ring in contact with the surface. (Picture 2)

2. Basic Adjustment of the Suction Nozzle:

Adjustment follows through the two bolts on the top of the housing. The distance between the surface and the suction nozzle should be approx. 25 mm. (Picture 3)



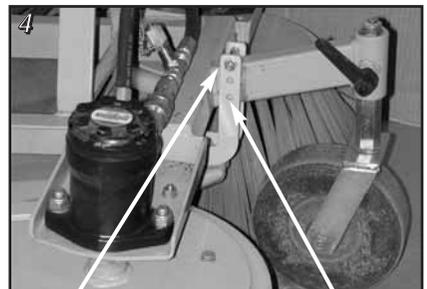
Height adjustment

Adjusting bolts

3. Suction nozzle inlet:

Standard setting is in the third hole from the top. (Picture 4)

1. The lower setting of the suction nozzle (less inlet), the greater the suction power when sweeping sand or pebbles.
2. The higher setting of the suction nozzle (more inlet), the greater the suction power when sweeping leaves, cans or paper.



Low setting

High setting

2. INSTRUCTIONS FOR USE

4. Load cell calibration:

The load cell should be calibrated once a month:

1. Raise the container and loosen the locknut on the calibration screw. Lower the container.
2. Fill the container with sand until there is 10 cm to the edge of the vent. (Pictures 1 & 2)
3. Plug the 12 v connector into the power output.
4. Turn the ignition to the first position and switch on the power output.
5. Turn the calibration screw until the speaker gives an alarm. (Picture 3)
6. Empty the container. Tighten the locknut on the calibration screw. (Only possible when the container is raised).



Measure horizontal in, vertical down.



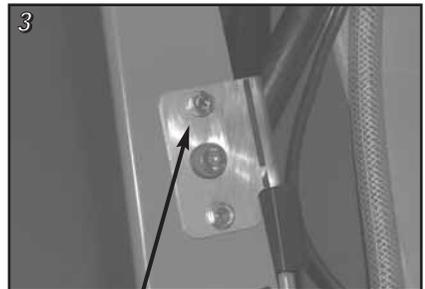
There should be 10 cm down to the sand

5. Frost protection in winter:

Before storing the suction sweeper unit for the winter, drain all water from the water tank by removing the drain plug on the water tank right side using an Allen key.

6. Angle adjustment of the additional side brush:

1. Loosen the nuts for the adjusting fittings.
2. Adjust the brush angle as follows:
 - Shorten the fittings to raise the brush front
 - Extend the fittings to lower the brush front.(Picture 4)



Calibration screw



Fittings for angle adjustment of additional side brush

3. SERVICE AND MAINTENANCE

3.1 Cleaning/replacing filter system and turbine



Important!

Stop the engine immediately in case of unbalance in the turbine or the filter system!

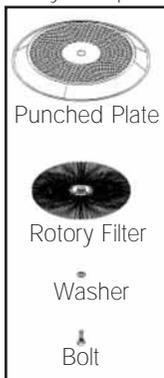
Daily control of the turbine and the filter

Dirt sticking to the filter hairs can cause unbalance in the rotary filter and turbine and must be removed immediately!

Cleaning the turbine and the rotary filter

1. Dismount the rotary filter and the punched plate and clean with max. 50° C hot water.
2. Check the turbine and remove possible dirt.
3. Use the scraper that comes standard with the machine to remove possible dirt from the turbine blades. A thorough cleaning of all blades is important in order to avoid unbalance in the turbine.
4. Remount the punched plate and the rotary filter. Fasten the bolt.

Rotary Filter parts:



The rotary filter should be replaced by normal wear and tear or when it can no longer be cleaned.

New filters can be acquired from an authorized Egholm distributor.

Turbine replacement

We recommend always letting an authorized Egholm distributor replace the turbine.



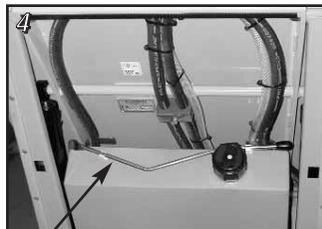
Dismounting the rotary filter



Rotary filter Punched plate



Turbine check



Scraper for turbine blades



Cleaning the turbine

3. SERVICE AND MAINTENANCE

Cleaning the jet sprayer

1. Dismount the Allen screw at the end of the nozzle pipe using a 5 mm Allen key. (Picture 1)
2. Clean the nozzle hole using a cleaning pin.
3. Turn on the water and leave it on until all impurities have been washed out of the nozzle pipe.
4. Remount the Allen screw in the nozzle pipe and tighten.

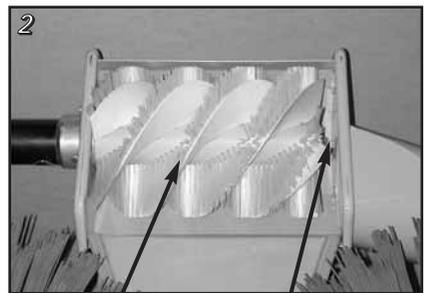


Cleaning pin

3.2 Maintenance

Roller brush replacement:

1. Dismount the front brushes from the A-frame and turn them over.
2. Loosen the bolt that passes through the roller brush. (Picture 2) Leave it in the roller brush while dismounting
3. Draw the roller brush, the washer, and the bolt free from the oil motor.
4. Remove the bolt and the washer from the old roller brush and install the replacement brush.
5. Install the new roller brush in reverse order and retighten the bolt.



Roller brush replacement Loosen bolt

New roller brush can be ordered from an authorized Egholm distributor.



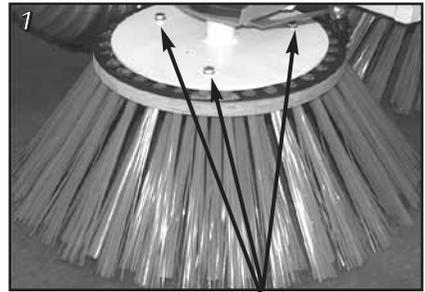
Note!

Make sure to remove possible bands, strings etc. twisted round the roller brush.

3. SERVICE AND MAINTENANCE

Front brushes replacement:

1. Loosen the three bolts on each disk. (Picture 1)
2. Dismount the brushes (do not remove the disk from the oil motor)
3. Install the new brushes. New brushes can be ordered from an authorized Egholm distributor



Replacing brushes: loosen bolts

Suction hose replacement:

1. Disconnect the suction hose by turning it anti-clock wise.
2. Connect the new suction hose by turning it clockwise.

New suction hose can be ordered from an authorized Egholm distributor.



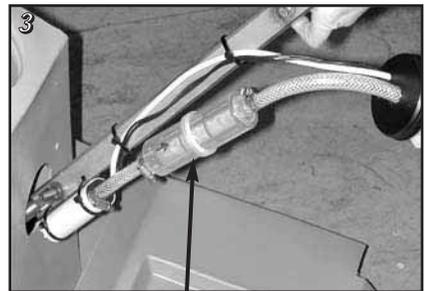
Relay and nuts

Water filter:

In order to avoid blocking of the jets a water filter is mounted in the water tank. (Picture 3)

Replace the water filter as follows:

1. Loosen and remove the two nuts and the relay. (Picture 2)
2. Remove the hose from the water tank.
3. Loosen the two clips.
4. Remove the filter. New filter can be ordered from an authorized Egholm distributor. (Picture 3)
5. Mount the new filter in reverse order.



Water filter replacement

3. SERVICE AND MAINTENANCE

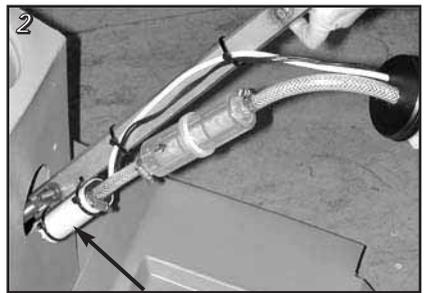
3.3 Troubleshooting

Lack of water pressure in the jets may be caused by:

1. An empty water tank
2. The tap for the jets is turned off. (Picture 3, page 11)
3. The 12-volt plug is unplugged. (Page 11)
4. The jets on the front brushes are blocked - clean as follows:
Remove the jet holder union.
Clean the jet with water or compressed air.
Remount the jet holder union and set the spraying fan transversely to the machine.
5. Blocked jet in the container
Dismount the Allen screw at the end of the nozzle pipe and clean the nozzle hole using a cleaning pin.
Turn on the water and rinse the nozzle pipe.
6. Blocked filters. We recommend the relevant filters being changed. New filters can be ordered from an authorized Egholm distributor.
7. Defect pump. New pump can be acquired from an authorized Egholm distributor.
8. A fuse for the pump has blown. Refer to the instruction manual for the Egholm 2100 basic unit, paragraph 1.4
9. Water hoses are leaky or mounted incorrectly.



Clean jets / replace filters

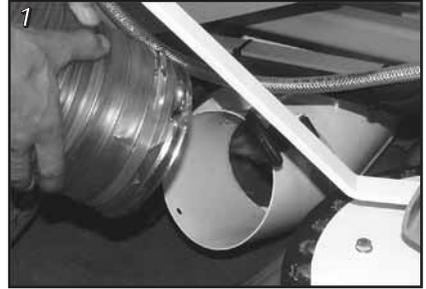


Water pump

3. SERVICE AND MAINTENANCE

Blocked suction nozzle:

1. Stop the engine. Refer to the instruction manual for the Egholm 2100 basic unit, paragraph 2.2
2. Disconnect the suction hose from the suction nozzle
3. Remove the jammed material manually. (Picture 1)



Remove jammed material

Blocked suction hose:

Under extreme circumstances sand deposits may slowly block the suction hose. To be remedied as followed:

1. Stop the engine. Refer to the instruction manual for the Egholm 2100 basic unit, paragraph 2.2
2. Disconnect the suction hose from the suction nozzle.
3. Disconnect the suction hose from the container by turning it anti-clockwise.
4. Shake the hose to loosen the sand deposits.
5. Reconnect the suction hose in reverse order (Picture 2)



Mounting the suction hose

Unbalance/vibrations in the container:

Under certain conditions unbalance or vibrations in the container may occur. The cause could be:

1. Incorrectly fit of the container. (Page 11)
2. Dirt sticking to the filter hairs, the punched plate or the turbine. (Page 20)
3. The filter hairs or the turbine have been damaged. New filter, punched plate and turbine can be ordered from an authorized Egholm distributor.

3. SERVICE AND MAINTENANCE

The overload alarm does not work:

1. The power has not been switched on.
2. The 12 v connector has not been plugged in. (Refer to page 11)
3. The fuse for the power output is blown. (Refer to operator's manual for basic unit, section 1.4)
4. A connector on the cable has loosened; ensure all wires are connected properly:

12 v connector:

Red to + and blue to -. (Picture 1)

Multi-connector (Picture 2):

Ensure the cable to the water pump is connected to the connector with red and blue wires.

Ensure the cable to the speaker is connected to the connector with blue and yellow wires.

Relay:

Blue on pin 31, red on pin 49 and yellow on pin 49a (as on picture 3)

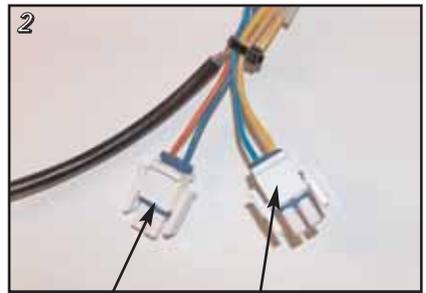
Speaker:

Ensure connector is connected to the speaker.

5. Contact your distributor for service/fault-finding.



Red wire to + and blue wire to -



Blue/red to pump - blue/yellow to speaker



Check the pins on the relay



Ensure connector is connected to speaker

4. Conditions

4.1 Conditions of warranty

The warranty period

The warranty period for the construction parts and the manufacture of this suction sweeper unit is 12 months from the date of purchase.

The scope of warranty

In case of defects on the machine within the warranty period, Egholm Maskiner A/S will - at its own discretion - carry out the necessary repairs without charge for material and working hours according to the terms and conditions listed below. The customer is to cover the costs for transportation.

1. The Egholm warranty is only valid on presentation of the original receipt supplied with model description, serial number and date of purchase.
2. Regular checks, adjustments, services and technical alterations are not covered by the guarantee.
3. All inquiries concerning the warranty are to be addressed to the place where the machine was purchased.
4. This warranty does not cover faults and defects, which cannot be traced back to defects in material or production errors.
5. Egholm Maskiner A/S reserves the right to make improvements and design-related alterations to the machine without being obliged to modify previously delivered models in relation hereto.
6. This warranty is valid for persons who have legally acquired the machine within the warranty period.

The guarantee does not cover:

1. Wear and tear, accidents, damage to the equipment caused by operating errors, improper utilization of the machine, constructual changes to the machine or use of non-Egholm spare parts or implements.
2. Machines with illegible serial number.
3. Lack of maintenance.
4. Damages caused by force majeure like lightning, floods, fire, war, civil disturbances etc. or other causes over which Egholm Maskiner A/S has no control.

4. Conditions

4.2 Conditions of complaint

All inquiries regarding the machine or implement should be put forward at the distributor, from whom the machine was purchased. This applies to inquiries concerning normal use, service, maintenance and spare parts as well as to possible complaints.

If there are questions that the distributor cannot answer, please do not hesitate to contact Egholm Maskiner A/S directly. Also feel free to contact us for suggestions or wishes for special implements and/or features for the machine. We wish you many years of safe and satisfied use of your machine.

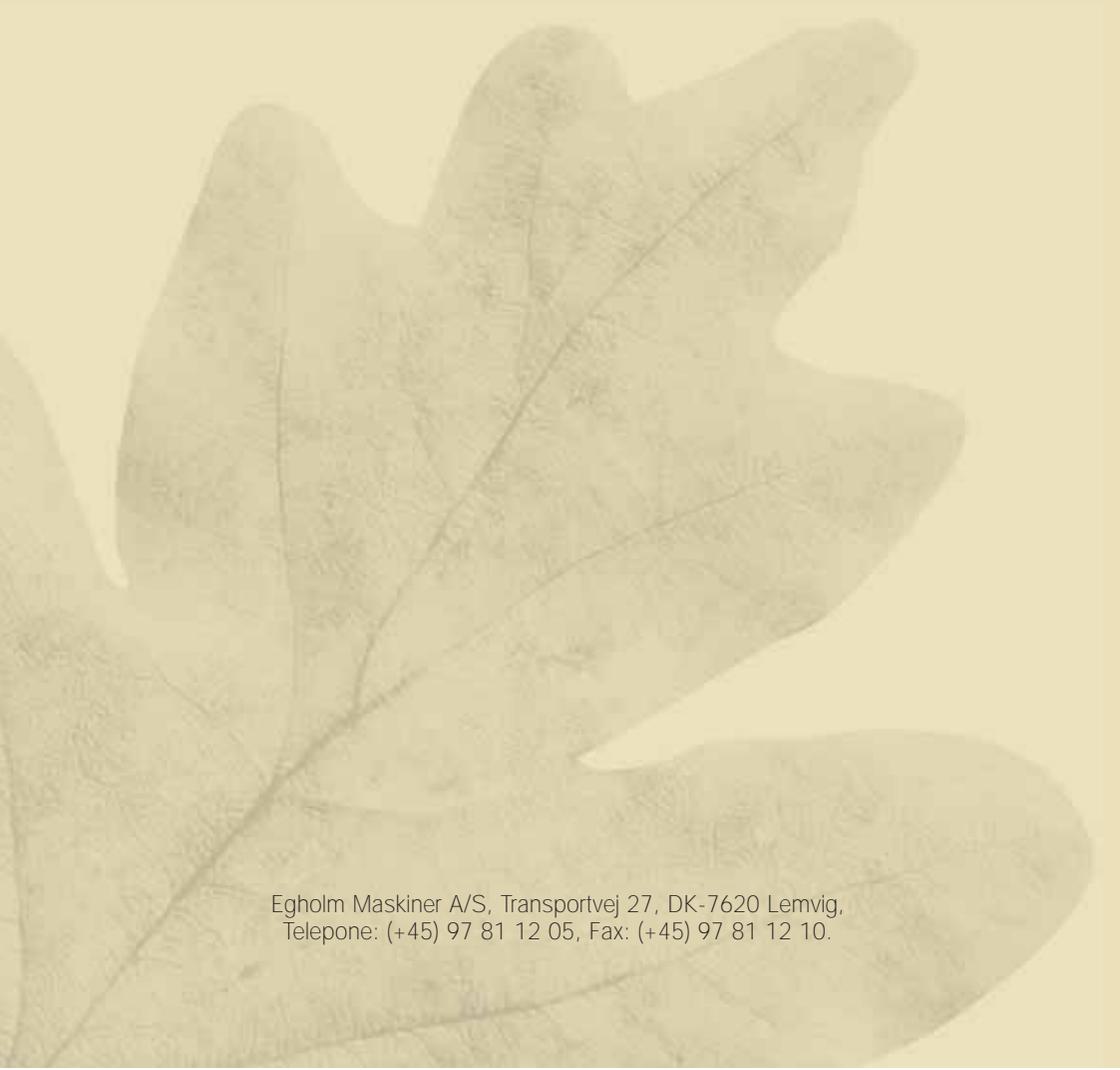
Best regards

Egholm Maskiner A/S, Transportvej 27, DK-7620 Lemvig,
Telephone: (+45) 97 81 12 05, Fax: (+45) 97 81 12 10.

4.3 Disposal

When - many years from now - your Egholm product comes to the end of its working life, it should be disposed of in a responsible manner and conform with the relevant disposal regulations.

1. Used hydraulic oil is to be disposed of at an approved waste disposal facility or site.
2. Dismount all plastic and rubber parts and discard in a dust bin.
3. After having removed the above mentioned parts, the machine is ready to be handed over to one of your local approved scrap merchants.

A large, faint, light-colored watermark of a leaf is visible across the entire page, serving as a background element.

Egholm Maskiner A/S, Transportvej 27, DK-7620 Lemvig,
Telephone: (+45) 97 81 12 05, Fax: (+45) 97 81 12 10.