

Operator's manual



**Suction sweeper
Park Ranger 2150**

Introduction

Dear Customer

Congratulations with your Egholm product

The Park Ranger 2150 is a Danish designed and manufactured product, which offers a very flexible way of maintaining outdoor areas.

Optimal use of your Park Ranger 2150 suction sweeper

To ensure optimal performance of your Park Ranger 2150 suction sweeper, please read this manual carefully before using the machine. Failure to do so can result in personal injury and damage to the machine.

Safety

The suction sweeper 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 Safety section 1.1. The machine must only be serviced by professionals.

The suction sweeper is intended only for professional use, and 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 so 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 Egholm policy to make continuous improvements, we reserve the right to alter the specifications and equipment at any time without notice. Egholm 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.

Best regards

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Egholm app - easy access to useful material

Download our Egholm app, enter the serial number of your machine and possibly add attachments, and get access to videos, manuals, technical specifications and much more.

If you agree to receive notifications, you will be notified about product and service information, offers etc. The app is available for Apple and Android mobile phones.

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1. General information

The Park Ranger 2150 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 Park Ranger 2150 suction sweeper unit. Two spray jets fitted 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 hopper. Hopper discharge follows directly from the drivers seat.

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.

Attaching and detaching 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. With the Park Ranger 2150 the changeover from one attachment to another is done in less than 4 minutes - no tools required.

Additional Side Brush - Optional equipment

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 equipment

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 hopper and is always within reach.

General information

**Honest
Machines**

General information

1.1 Safety

Assembly

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

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



Prevent people from standing close to the suction sweeper

Make sure there is no one close to the machine when it is in use.



Attention!

As it is articulated, the rear end of the machine swings out when turning. Make sure that no one is near the machine while it is in use as there is a danger of crushing.



Risk of crushing

Make sure no one gets their fingers trapped when the hopper is lowered after tipping.



Risk of impact when using the lever

Do not let go of the lever when the hopper is lowered as that is dangerous. Keep a good grip of the lever until the hopper is 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 hopper



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Wear ear protectors

General information

1.1 Safety - continued



Avoid roll-overs

Do not drive the machine in a place where it can slide, tip or roll. Do not drive on slopes with an incline of more than 10°. (Picture 1)



The hopper is fitted with a load cell, which is activated, when the hopper load reaches 300 kg. When the alarm sounds, the hopper 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 hopper, make sure that:

- a. The machine is firmly placed on a level surface and is not "angled"
- b. That there is sufficient space for the open back cover.



The cab of the Park Ranger 2150 is approved as a roll-over protection structure. (ROPS)
It is recommended that this cab is fitted for operation in areas with a high risk of tipping.

1.2 EU Declaration of Conformity

Manufacturer: **Egholm A/S**
Address: **Transportvej 27 · DK-7620 Lemvig**
Telephone: **(+45) 97 81 12 05**

hereby declares that

Machine: **Suction sweeper 2150**
Type: **FS2150**

- has been manufactured in conformity with the provisions of Machinery Directive 2006/42/EU
- has been manufactured in conformity with the provisions of Directive 2000/14/EU

and in accordance with

- DS/EN 13019 Machines for road surface cleaning – Safety requirements

Any alteration, rebuilding or addition of implements, accessories or other equipment not manufactured by Egholm automatically results in the cancellation of type approval, CE approval, any other approval, as well as any warranty on machine and attachments.

Unless otherwise agreed in writing between the operator, customer and Egholm, Egholm is the data originator (data originator) of all data generated by the machine and attachments during use.

Place: Lemvig
Date: _____
Signature: 
Rainer Flanz, R&D Manager

General information

1.3 Technical data

Dimensions

Suction sweeper, standard with two brushes:

	Assembled:	Storage dimensions:
Length(L)	2.900 mm	1.350 mm
Width (B)	1.200 mm	1.010 mm
Height without cab	1.850 mm	1.920 mm
Height with cab	1.935 mm	
Height with remote vac hose	2.200 mm	

Suction Sweeper Unit, with additional side brush:

	Assembled:	Storage dimensions:
Max. length (L)	3.550 mm	750 mm
Max. width (B)	1.660 mm	600 mm
Side Brush Height (H)	450 mm	450 mm

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2.1 Assembling the hopper frame

The hopper frame is folded up and hung on the hopper on delivery. Assembling the hopper frame:

1. Take the hopper frame down and unfold it. (Picture 1)
- 2) Put the frame together using the two bolts supplied. (Picture 2)

Moving the hopper frame

The hopper frame can be transported on the suction sweeper. Fold it down in reverse order and hang it on the hopper.



Attention!

The hopper must never be emptied when the hopper frame is hanging on the suction sweeper!



Transporting the hopper frame on the hopper

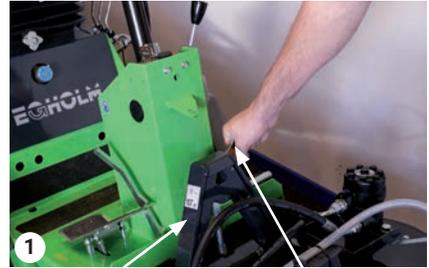


Two bolts on the hopper frame

2.2 Assembly/Disassembly

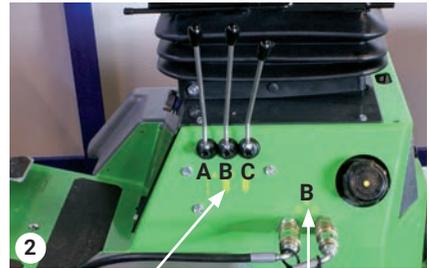
Fittings of Standard Brushes

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 left side of the machine 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 left side of the machine. (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

Operator's manual

2.2 Assembly/Disassembly - continued

Before fitting 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 fitted on the front brushes before the first use. Fit the arm as follows:

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



Remove bolt-Fittings



Mount the fittings with the bolt

2.2 Assembly/Disassembly - continued

Fitting the side brush

1. Lower the side brush down into the arm (Picture 1) and secure with safety split (A).
2. Fit the cylinder and secure with safety split (B). (Picture 2)
3. Lead the hydraulic hoses along the right side of the machine and connect with the E-outlets. (Picture 3)



Important! Before starting

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



Fitting the side brush Arm



Secure with safety split



E-outlet

Operator's manual

2.2 Assembly/Disassembly - continued

Fitting the hopper

1. Check that the engine bonnet is locked before fitting the sweeper unit.

2. Back the machine up to the hopper, which is stored on the roller stand, and stop the engine.

3. Push the roller stand with hopper over the bonnet and leave approx. 5 cm of the hopper to project to the rear.

4. Press down the lever, push the lock catch free from the beard and lower the hopper slowly down over the machine. (Picture 1)



Warning!

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

5. Release the roller stand and pull away.

6. Push the hopper forwards into place.

7. Make sure that the locking handle is left in locked position - shake the hopper slightly to test a correct fit. (Picture 2)

8. Connect the 12 Volt plug on the right side of the machine.

9. Fit the 2 hydraulic hoses to the D-outlet on the right side of the machine. (Picture 3)

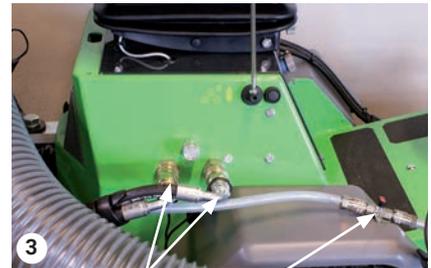
10. Connect the water hose. (Picture 3)



Lowering the hopper



Locked position 12 Volt plug



D-outlets Water hose

2.2 Assembly/Disassembly - continued

11. Attach the suction hose to the suction mouth. (Picture 1)

12. When fitting the sweeper unit with twin front brushes, connect the two small hydraulic hoses to the C-outlets on the rear chassis. (Picture 2)

13. If the sweeper unit is equipped with additional side brush, lead the hydraulic hoses along the right side of the machine and connect with the E-outlets. (Picture 3)



Attach the suction hose to the suction mouth



C-outlets



E-outlets

Operator's manual

2.2 Assembly/Disassembly - continued

Before fitting the remote vac hose

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

When the remote vac hose is ordered separately, the hopper will have to be prepared for the hose by means of a support ring and a transport lock to be fitted on the hopper before the first use. Fit 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. Fit the support ring and screws in the holes on the hopper. (Picture 1)
3. Fit the top grating again.

Transport lock

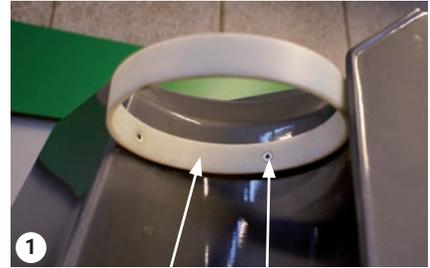
1. Put a nylon block on both ends of the transport lock.
2. Fit the transport lock by pressing the nylon blocks into the fourth row (from behind) of the top grating (hole in the ball catch pointing forwards). (Picture 2)
3. The support ring and the transport lock now form an integral part of the suction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

Fitting the remote vac hose

Fit the remote vac hose by lowering it down into the hole on the top front side of the hopper. (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 hopper. The remote vac hose is now ready for use. (Picture 4)



Support ring Screws



4. Hole Transport lock Top grating



Fitting: Storage case Support ring



Remote vac hose in use

2.2 Assembly/Disassembly - continued

Transport of the remote vac hose

1. Start the suction sweeper unit and set the air flow to the remote vac hose. (Page 17 - 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. (Picture 1) If the remote vac hose is ordered separately, the support ring and transport lock will have to be fitted before starting.

NB! 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 fitting, just in reverse order.

DON'T FORGET when dismantling!

1. Disconnect the suction hose from the front brushes and hook it on the fittings to the right below the hopper 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 fitting. (Picture 3)



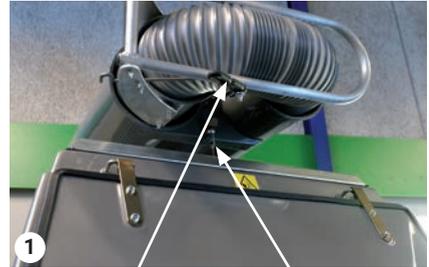
Warning

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

Dismounting the additional side brush

Like fitting, just in reverse order. (Page 11)

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



Rubber strap Transport lock



Fittings for suction hose



Storage of hydraulic and water hoses

Operator's manual

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 hopper 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 hopper.

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 hopper. (Picture 4)

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



Filling of water



Water jet in hopper



Water jets in front of the two standard brushes



Pre-start test - pull wire



Attention!

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



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



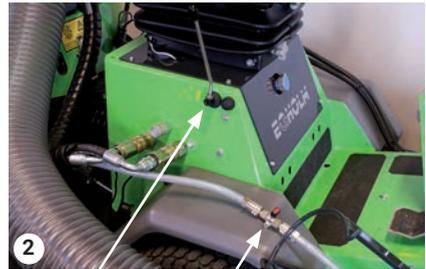
A level switch ensures that the water pump stops automatically when the water tank is empty.

2.4 Start-Up

1. Start the engine.
(Refer to the instruction manual for Park Ranger 2150 basic unit)
2. Switch the power output on, the water pump will start and the overload alarm will sound if overload in the hopper. (Picture 1)
3. If the two front-mounted jet sprayers are to be activated, open the tap on the water hose on the right side of the machine. (Picture 2)
4. Start the suction sweeper unit by pushing lever D (on the right side of the machine) 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 left side of the machine) into position 1. (Picture 3)



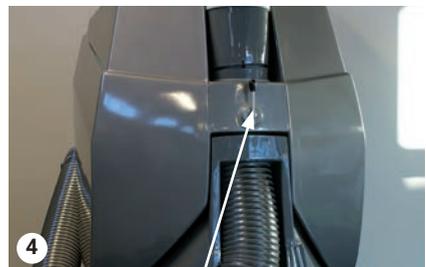
Power outlet button



Lever D Tap for front-fitted jet sprayers



Lever B Lever C



Switch handle



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 fitted, 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 left side of the machine. (Picture 3)

Switching between the remote vac hose and the front brushes

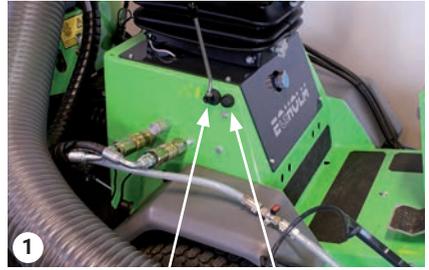
Turn the switch handle to redirect the flow between the remote vac hose and the front brushes. (Picture 4)

Operator's manual

2.4 Start-Up - continued

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 attachments while activating lever D. (Picture 1)



Lever D Switch



Avoid roll-overs

Do not drive the machine in a place where it can slide, tip or roll. Do not drive on slopes with an incline of more than 10°. (Picture 2)



Do not drive on slopes with an incline of more than 10°

2.5 Hopper discharge

If the alarm sounds, empty the hopper

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

Note!

Before hopper discharge make sure that:

- a) The machine is horizontal and not "broken"
- b) There is enough space around the hopper to open the tailgate and for the remote vac hose, if this is fitted.

1. Stop the turbine by pushing lever D (on the right side of the machine) 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. Hopper discharge follows by pushing lever C slowly into position 1. (Picture 3)

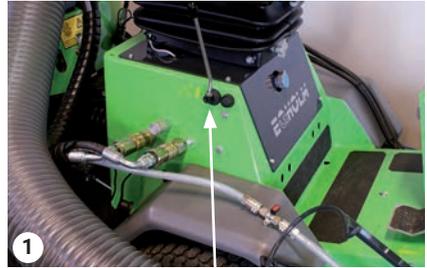
5. When the hopper is discharged, push lever C slowly into position 2 to lower the hopper. Make sure that the hopper is fully lowered before releasing lever C. (Picture 3)

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 hopper every day after use.



Lever D



Switch off power



Lever C



Hopper discharge

Operator's manual

2.5 Hopper discharge - continued



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 hopper discharge.



Make sure that the hopper is fully lowered after discharge!

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 1)

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 2)



Nose wheel for brush adjustment



Height adjustment Adjusting bolts

2.6 Adjustment - continued

3. Suction nozzle inlet

Standard setting is in the hole at the middle.
(Picture 1)

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

4. Load cell calibration

The load cell should be calibrated once a month:

1. Raise the hopper and loosen the locknut on the calibration screw. Lower the hopper.
2. Fill the hopper with sand until there is 10 cm to the edge of the vent. (Pictures 2+3)
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 4)
6. Empty the hopper. Tighten the locknut on the calibration screw. (Only possible when the hopper is raised).



Measure horizontal in, vertical down.



There should be 10 cm down to the sand



Calibration screw

Operator's manual

2.6 Adjustment - continued

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 adjusting the 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 1)



Fittings for angle adjustment of additional side brush

Service and maintenance

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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! Give special attention to the filter and turbine while the machine is operating in difficult conditions.

Cleaning the turbine and the rotary filter

1. Dismount the rotary filter and the punched plate and clean with max. 50° C hot water. (Picture 1+2+3)

2. Check the turbine and remove possible dirt. (Picture 3)

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. (Picture 3+4)

4. Remount the punched plate and the rotary filter. Fasten the bolt.

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.



1 Dismounting the rotary filter



2 Bolt, washer, plate, rotary filter



3 Cleaning the turbine



4 Scraper for turbine blades

Service and Maintenance

3.1 Cleaning/replacing filter system and turbine - continued

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

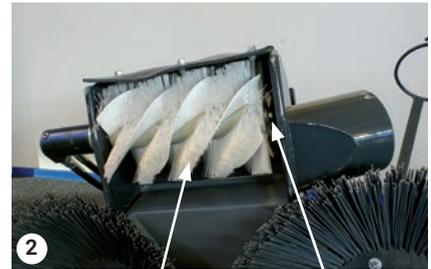
Roller brush replacement

1. Dismount the front brushes from the A-frame of Park Ranger 2150 and turn them over.

Loosen the bolt that passes through the roller brush. (Picture 2) Leave it in the roller brush while dismantling

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.

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



Roller brush replacement

Loosen bolt



Attention!

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

Service and Maintenance

3.2 Maintenance - continued

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

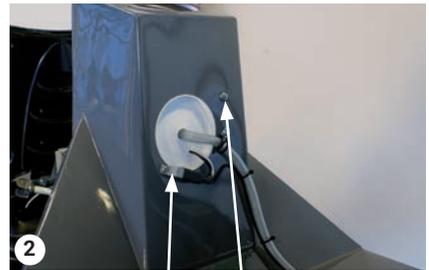


Replacing brushes: loosen bolts

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.



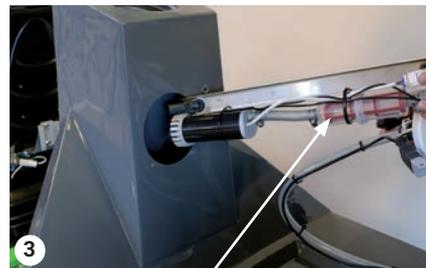
Relay and nuts

Water filter

In order to avoid blocking of the jets, a water filter is fitted 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. Fit the new filter in reverse order.



Water filter replacement

Service and Maintenance

3.3 Troubleshooting

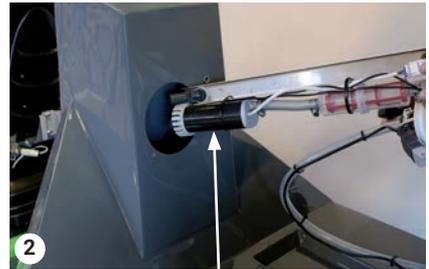
Lack of water pressure in the jets may be caused by

1. An empty water tank
2. The tap for the jets is turned off.
(Picture 2, page 17)
3. The 12-volt plug is unplugged.
(Picture 2, page 12)
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. (Picture 1)
5. Blocked jet in the hopper.
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. (Picture 2)
8. A fuse for the pump has blown. (Refer to the instruction manual for the Park Ranger 2150 basic unit)
9. Water hoses are leaky or fitted incorrectly.

New pump and filters can be acquired from an authorized Egholm distributor.



Clean jets / replace filters



Water pump

Service and Maintenance

3.3 Troubleshooting - continued

Blocked suction nozzle

1. Stop the engine.
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.
2. Disconnect the suction hose from the suction nozzle.
3. Disconnect the suction hose from the hopper by turning it anti-clockwise.
4. Shake the hose to loosen the sand deposits.
5. Reconnect the suction hose in reverse order
(Picture 2)



Fitting the suction hose

Unbalance/vibrations in the hopper

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

1. Incorrectly fit of the hopper. (Page 12)
2. Dirt sticking to the filter hairs, the punched plate or the turbine. (Page 23)
3. The filter hairs or the turbine have been damaged.

New filter, punched plate and turbine can be ordered from an authorized Egholm distributor.

3.3 Troubleshooting - continued

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).
4. A connector on the cable has loosened; ensure all wires are connected properly:

12 v connector

Brown 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)

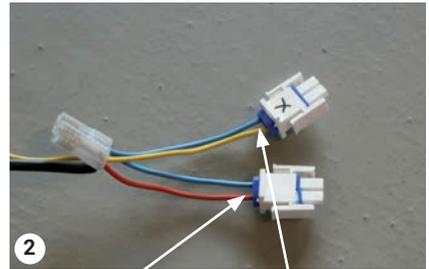
Speaker

Ensure connector is connected to the speaker. (Picture 4)

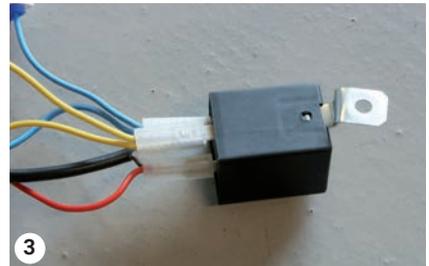
5. Contact your distributor for service/fault-finding.



Brown 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

Conditions

**Honest
Machines**

4.1 Warranty

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

In case of errors or defects on the machine within the warranty period, Egholm will carry out the necessary repairs at no charge to the customer, including materials and working hours, in accordance with the terms and conditions listed below.

The scope of warranty

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 warranty.
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. This warranty is valid for persons who have legally acquired the machine within the warranty period.
6. In the event of failure to perform and substantiate service in accordance with the applicable instructions, Egholm reserves the right to reject any claim made within the warranty period.
7. Egholm reserves the right to make improvements and design-related alterations to the machine without being obliged to modify previously delivered models in relation hereto.

The warranty does not cover

- Wear and tear, accidents, damage to the attachment caused by operating errors, changes to the construction of the machine or use of non-Egholm spare parts or attachments.
- Machines with illegible serial numbers.
- Damage caused by force majeure such as lightning, flood, fire, war, civil disturbance, etc, or other causes over which Egholm has no control.

Conditions

4.2 Complaints

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

We wish you many years of safe and satisfied use of your machine.

Best regards
Egholm A/S

4.3 Disposal

When, in many years from now, your suction sweeper has reached the end of its working life, it should be disposed of in a responsible manner that conforms with relevant disposal regulations.

1. Used hydraulic oil is to be disposed of at an approved waste disposal facility or site.
2. Remove the plastic and rubber parts and dispose of them in accordance with the applicable environmental legislation.
3. After the aforementioned parts have been removed, the machine is ready to be handed over to a local approved scrap merchants.

Honest Work.

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