

Operator's manual



**Snow sweeper
Park Ranger 2150**

Introduction

Dear Customer

Congratulations with your new Egholm product

The Park Ranger 2150 is a Danish designed and manufactured utility machine, which allows you to take a very flexible approach to maintaining outdoor areas.

Optimal use of your Park Ranger 2150 Snow sweeper

To ensure the optimal performance of your Park Ranger 2150 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 snow sweeper is equipped with various devices to ensure optimal operational safety both for the user and the surroundings. We ask you to pay particular attention to section 1.1 Safety. The machine must only be serviced by professionals.

The snow sweeper is intended for professional use only. On delivery, the user will receive thorough training to become a competent operator.

Do not lend the machine to anyone who has not been thoroughly trained and who has not read this manual carefully.

The operator's manual should be considered a vital accessory to 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 explains how you should pay special attention to the aspect in question.



Reservations

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

Contact Egholm

Should you have any questions regarding your Egholm product, do not hesitate to contact Egholm.

Best regards

Egholm A/S · Transportvej 27 · DK-7620 Lemvig

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E-mail: info@egholm.dk · www.egholm.eu



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

With the snow sweeper fitted to the front of the Park Ranger 2150 and the salt and sand spreader fitted on the back, the machine sweeps snow while leaving a safe and passable path behind.

The snow sweeper clears snow up to 15 cm deep and follows the terrain perfectly over inclines and other obstacles.

With the hydraulic steering the snow sweeper can be set to match the prevailing wind direction, and the adjustable sweeping direction makes it possible to clear snow even from places where the machine is unable to turn.

Useful tips

Wipe the snap couplings before fitting, as this protects the hydraulic system.

Daily cleaning and maintenance will extend the lifetime of both the machine and the attachment.

General information

**Honest
Machines**

General information

1.1 Safety



Make sure no-one is standing close to the machine while it is in use

Make sure that no one is near the machine while it is in use as there is a danger of crushing.



NB

As it is articulated, the rear end of the machine swings out when turning. Make sure that no one is standing near the machine while it is in use. (Picture 1)



When lever B on the left-hand side of the machine is operated, the snow sweeper moves from side to side. Make sure that no one is standing near the machine while it is in use. (Picture 2)



Avoid crushing fingers

Keep your hands and fingers away from areas where there is a danger of crushing.



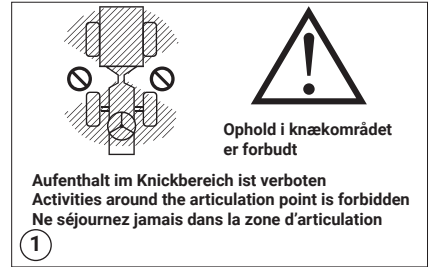
Avoid roll-overs

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 3)

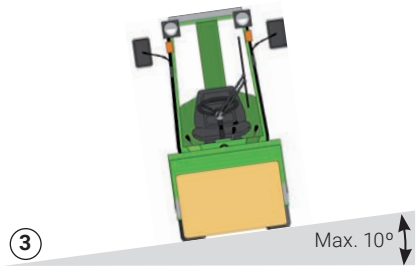
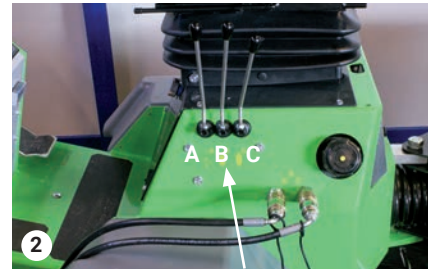


Reduction of noise and energy consumption

We recommend that you do not drive with a higher engine speed than necessary, to reduce the noise and the energy consumption.



Prevent people from standing in the working area



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

General information

1.2 EC Declaration of Conformity

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


hereby declares that

The machine: **Snow sweeper**
Type: **21SK1205**

· has been manufactured in conformity with the provisions of the Machinery Directive, Directive 2006/42/EU

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	Attached	Storage dimensions
Length (L)	3,020 mm	900 mm
Width (W)	1,220 mm	1,220 mm
Height with cab	1,935 mm	
Height		650 mm

Technical data

Type	21SK1205
Clearing width	1,140-1,220 mm
Ground clearance below brush	420 mm
Brush diameter	550 mm
Weight of snow sweeper	101 kg
Number of brush rings	33
Number of spacers	32
Sweeping capacity	approx. 10–12,000 m ² /hour

NB

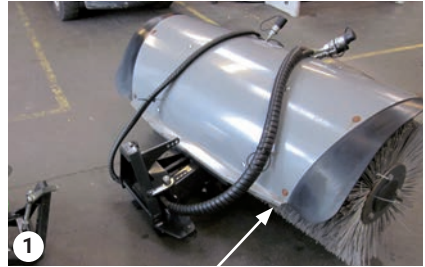
Specifications may be changed without prior notice.

Operator's manual

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2.1 Assembly / Disassembly

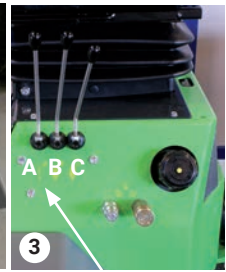
1. We recommend that you run the hydraulic hoses over the snow sweeper guard to keep them clear and free from dirt when the snow sweeper is fitted. (Picture 1)
2. The locking handle on the A-frame of the base machine must be in the open position. (Picture 2)
3. Drive the base machine right up to the A-frame of the snow sweeper so the A-frames fit into each other.
4. Use lever A on the left-hand side of the base machine to raise the A-frame until the snow sweeper is freely suspended above the ground. (Picture 3)
5. Use the locking handle on the A-frame to lock the snow sweeper in place. (Picture 4)
6. Use lever A on the left-hand side of the base machine to raise the snow sweeper completely. (Picture 3)
7. Switch off the machine.
8. Hook the large spring on the snow sweeper into the socket on the instrument panel. (Picture 5)



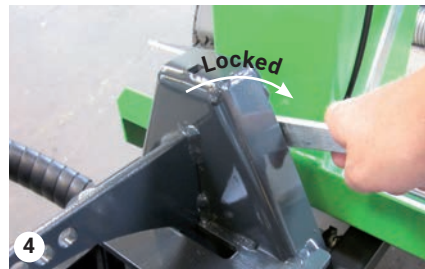
Hydraulic hoses



Locking handle-open



Lever A



Locking handle on the A-frame = locked



Hook the spring into the socket on the console

Operator's manual

2.1 Assembly / Disassembly - continued

9. Pull out the locating pin and swivel the support strut in front of the wheel on the machine until it falls into place. (Picture 1+2)

10. Attach the hydraulic hoses which are used to turn the snow sweeper to the B-connector on the left-hand side of the machine. (Picture 3)

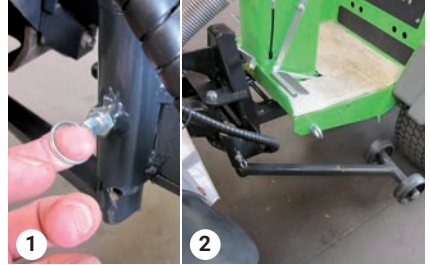
11. Attach the hydraulic hoses which are used to rotate the brush to the D-connectors on the right-hand side of the machine. (Picture 4)

Removal

Reverse the procedure for fitting. Put the protective caps on the snap couplings to protect them from dirt.

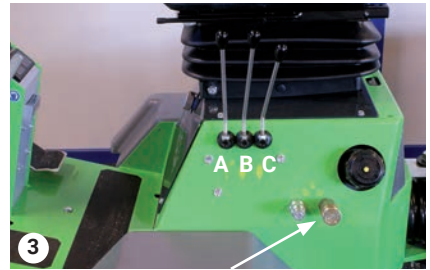
2.2 Before start-up

During transport, use the transport lock to secure the snow sweeper in the raised position. (Picture 5)

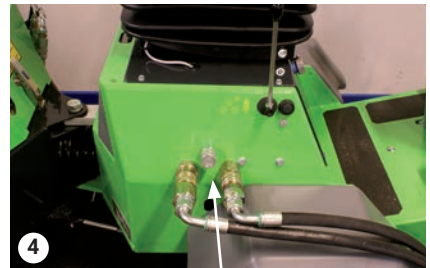


1 Locating pin

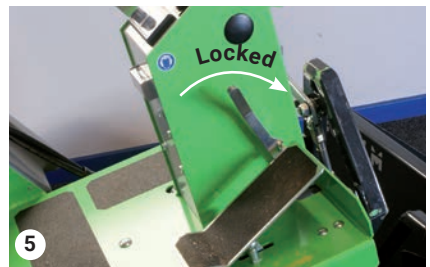
2 Swivel support strut



3 B-connector



4 D-connectors



5 Transport lock

2.3 Start-up

1. Start the machine.

2. Lower the snow sweeper by pushing lever A on the left-hand side of the machine down to position 2. (Picture 1)

3. We recommend that you hold the lever down for about 2 seconds, as this will place the snow sweeper in a floating position, which allows it to follow ground contours.

4. Start the brush by pushing lever D on the right-hand side of the machine up to position 1. (Picture 2)

The direction of the brush can be turned so that it is possible to clear snow in places where the machine cannot turn. Do this by pushing lever D down to position 2. (Picture 3)

5. Use lever B on the left-hand side of the base machine to turn the snow sweeper until the brush is in the position you require. (Picture 1)



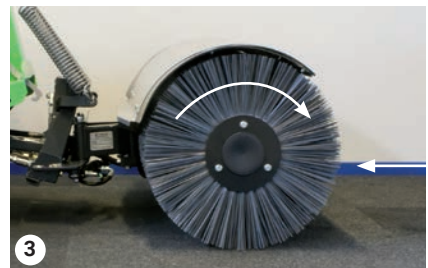
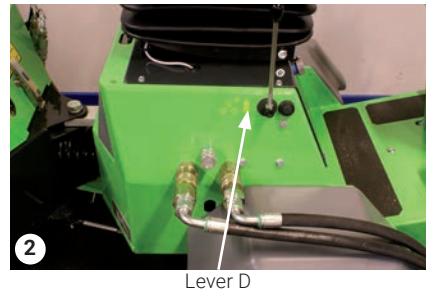
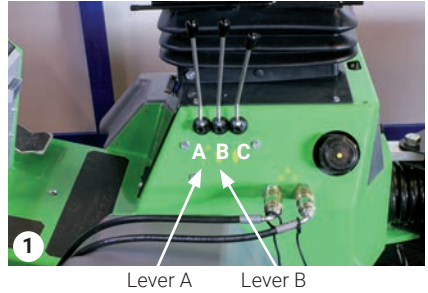
Warning

Make sure no one is standing close to the machine while it is in use.



When lever B on the right-hand side of the machine is operated, the snow sweeper moves from side to side.

Make sure that no one is standing near the machine while it is in use.



Reverse sweeping direction – driving in reverse

Operator's manual

2.3 Start-up - Continued



NB

When turning, the rear of the machine swings out so there is a risk of crushing or collision.



We recommend that you do not drive with a higher engine speed than necessary, to reduce the noise and the energy consumption.

Service and maintenance

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Service and Maintenance

3.1 Cleaning

Daily cleaning and maintenance will extend the lifetime of both the machine and the attachment.

After use, clean the snow sweeper with water.

3.2 Maintenance

Replacing the brush rings

1. Remove the flange that holds the brush rings by unscrewing the three bolts that hold the flange. (Picture 1)

2. Take all the brush rings and spacers off the brush axle. (Picture 2)

3. Fit a skewed brush ring on the brush axle with an incline towards the end of the axle.

4. Then place a brush ring, followed by a spacer, on the brush axle.

5. Fit a flat brush ring to finish.

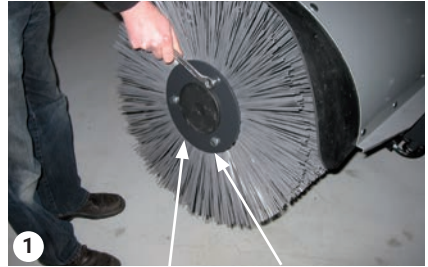
6. Replace the flange.

New brush rings can be ordered from an authorised Egholm distributor.

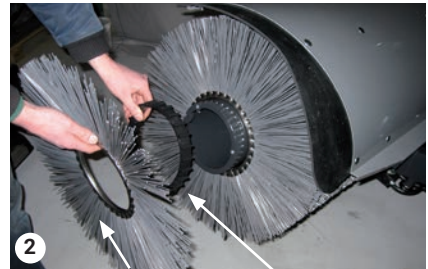
Storage outside the season

When the snow sweeper is to be stored outside the season, we recommend that you remove any loose paint and to repaint any damaged areas.

We recommend greasing the attachment or spraying it with protective lubricant.



Remove the flange Bolt



Brush ring Spacer

Conditions

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Conditions

4.1 Warranty

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

In case of faults or defects in the machine within the warranty period, Egholm will carry out the necessary repairs without charge for 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 therefore cover

- Wear and tear, accidents, damage to the equipment caused by operating errors, negligence, 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. as well as damage resulting from incorrect or insufficient maintenance, consequential damage or other causes over which Egholm has no control.

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 to any complaints.

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

Best regards
Egholm A/S

4.3 Disposal

When many years from now your snow sweeper 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. Remove the plastic and rubber parts and dispose of them in accordance with the applicable environmental legislation.
3. After the parts mentioned have been removed, the machine is ready to be handed over to an authorised municipal scrap merchant.

Notes

Honest Work.

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