

Operator's manual



**Snow Plough
Park Ranger 2150**

Introduction

Dear Customer,

Thank you for choosing an 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 Plough

To ensure optimal performance from your Park Ranger 2150 snow plough, 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 snow plough 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 plough is designed only for use by professionals. 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 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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The snow plough truly demonstrates the strength and power of the Park Ranger 2150. When fitted to the base machine, with its four-wheel drive and carefully designed weight distribution, the snow plough pushes snow effortlessly away thanks to its neatly rounded shape.

The hydraulic controls allow the operator to choose to which side of the snow plough snow is sent. The snow plough can be combined with a salt and sand spreader, so that areas being cleared are simultaneously made safe and passable.

The snow plough is equipped as standard with a safety tilt system and rubber scraping edge to protect both the machine and the surface being scraped.

The rubber scraping edge is ideal for use with melting snow and simultaneously scrapes the surface thoroughly without damaging it.

Useful tips

Adjust the skids to the ground conditions. If there are a lot of raised edges, set the skids high so they do not cut into the edges.

Use the snow plough for big drifts. The snow plough removes most of the snow and the snow sweeper finishes off the job.

Ensure the snap couplings are clean 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 right-hand side of the machine is operated, the snow plough swings from side to side. Make sure that no one is standing near the machine while it is in use. (Picture 2)



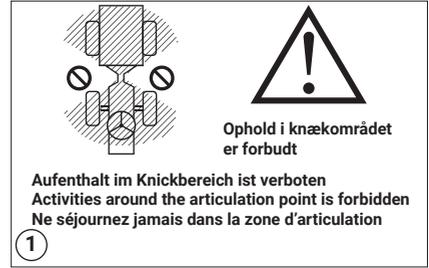
Avoid crushing fingers

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

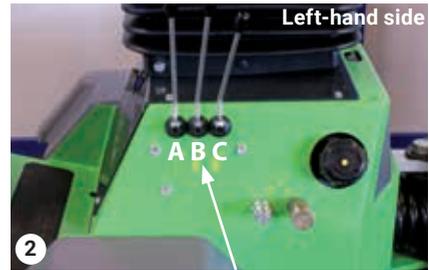


Avoid roll-overs

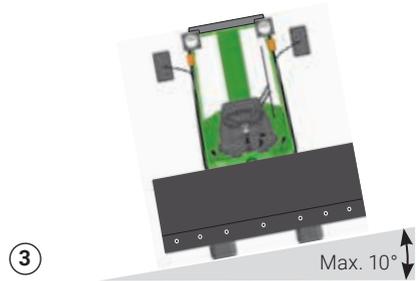
Do not drive the machine in places where there is a risk that it may slide, tip or roll. Do not drive on slopes with an incline of more than 10°. (Picture 3)



Prevent people from standing in the working area



Lever B



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 Plough**
Type: **21DZ1305**

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

The Park Ranger 2150 fitted with the FH 2100 cab (ROPS approved)

· has been tested at the Danish Institute of Agricultural Sciences at Bygholm in conformity with directive 86/298/EEC concerning rear mounted, roll-over protection structures of narrow-track wheeled agricultural and forestry tractors.

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: 
Knud Olsen, Senior Engineer

General information

1.3 Technical data

Dimensions

	Attached	Storage dimensions
Length (L)	2,700 mm	550 mm
Width (W)	1,300 mm	1,300 mm
Height with cab (H)	1,935 mm	
Height		545 mm

Technical data

Type	22DB1305
Snow plough weight	69 kg
Clearing width	1,300 mm
Ground clearance below scraping edge, lifted	400 mm
Ground clearance below support strut	350 mm
Spacers per skid	8

NB

Specifications may be changed without prior notice.

Operator's manual

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Machines**

2.1 Assembly / Disassembly

1. We recommend that you run the hydraulic hoses over the snow plough to keep them clear during assembly. (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 plough, so the A-frames fit into each other.
4. Raise the A-frame with lever A on the left-hand side of the base machine until the snow plough is freely suspended above the ground. (Picture 3)
5. Switch off the machine.
6. Use the locking handle on the A-frame to lock the snow plough in place. (Picture 3)
7. Fit the hydraulic hoses to the B-connectors on the left-hand side of the machine. (Picture 4)

Removal

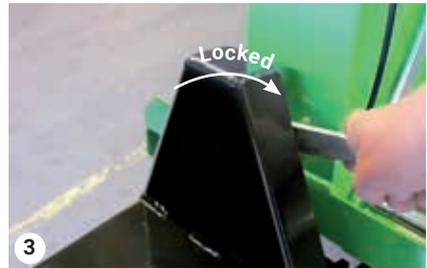
Follow the procedure for fitting in reverse order. Put the protective caps on the snap couplings to protect them from dirt.



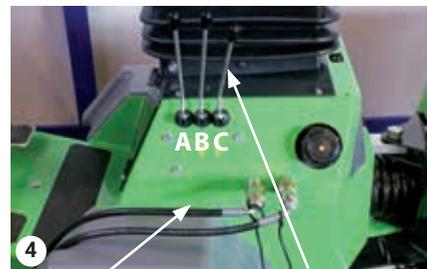
Hydraulic hoses



Locking handle on the A-frame - open



Locking handle on the A-frame - locked



Lever A

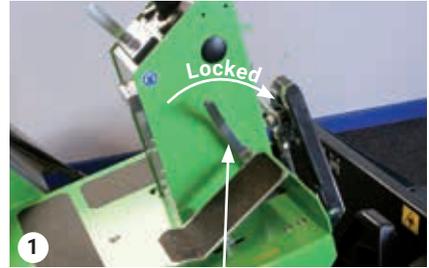
Connector B

Operator's manual

2.2 Before start-up

During transport

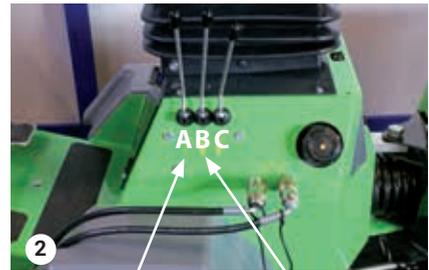
Use the transport lock to lock the snow plough in the raised position. This prevents the attachment from lowering during transport. (Picture 1)



Transport lock

2.3 Start-up

1. Start the machine.
2. Lower the snow plough by pushing lever A on the left-hand side of the machine down to position 2. (Picture 2)
3. We recommend that you hold the lever down for about 2 seconds, as this will place the snow plough in a floating position, which allows it to follow ground contours.
4. Use lever B on the left-hand side of the machine to turn the snow plough to the required side. (Picture 2)



Lever A

Lever B



Warning!

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



NB!

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



Warning!

Collision with solid obstacles – such as kerbstones – may damage the snow plough. This damage may cause bolts to snap or parts of the snow plough to bend.
Damage of this type is not covered by the warranty.

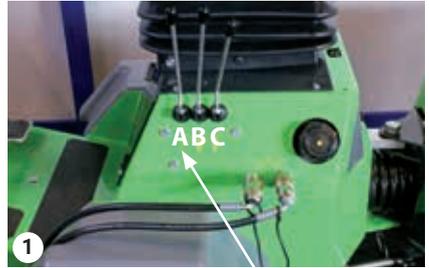
2.4 Adjustment

Adjust the skids to the ground conditions.
If there are a lot of raised edges, set the skids high so they do not cut into the edges

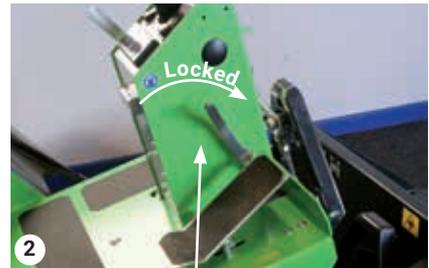
To adjust the scraping height, alter the number of spacers between the skid and the scraper guard.

Adjusting the scraping height

1. Raise the snow plough by pushing lever A on the left-hand side of the machine up to position 1. (Picture 1)
2. Use the transport lock to lock the snow plough in the raised position. (Picture 2)
3. Switch off the machine.
4. Remove the lock ring on the skid, take off the skid and place the required number of spacers between the skid and the scraper guard (the same number on both skids). (Picture 3)
5. Fit the skid and place the remaining spacers on the skid above the scraper guard.
6. Replace the lock ring on the skid.



Use handle A to raise the snow plough



Use the transport lock to lock the snow plough



Spacers

Remaining spacers

Service and maintenance

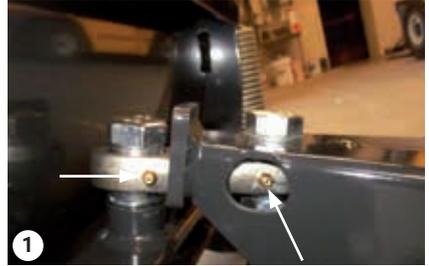
**Honest
Machines**

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 plough with clean water. Avoid high pressure cleaning of the snap couplings.



Location of lubrication nipples

3.2 Maintenance

Lubricating the bearings

The bearings in the pivot joint of the snow plough should be greased regularly with good quality grease.

1. Switch off the machine.
2. Clean the lubricating nipples and lubricate the bearings until the grease starts to come out of the bearing. (Picture 1)



Nuts that hold the scraper

Replacing the scraping edge

The scraper at most can be worn down to the scraper guard.

1. Lift the snow plough to the uppermost position and use the transport lock to lock it in place.
2. Switch off the machine.
3. Remove the nuts and bolts holding the scraper edge and remove the scraper edge. (Picture 2)
4. Fit the new scraper edge by reversing the procedure. New scraper edges and skids can be ordered from an authorised Egholm distributor.

Service and Maintenance

3.2 Maintenance - continued

Storage outside the season

When the snow plough 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.

Conditions

**Honest
Machines**

Conditions

4.1 Warranty

The warranty period for the materials and manufacture of this snow plough 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 plough reaches the end of its working life, you should dispose of it in a responsible manner and in accordance with the applicable disposal regulations and legislation.

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.

Wearing parts

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5.1 Spare parts – Park Ranger 2150 Snow Plough



E02200060 Tension spring



E09724490 Rubber scraping edge



E61200898 Skid



E90501921 Articulated joint set



E01702020 Loose bearings for articulated joint set

Notes

Honest Work.

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