

Operator's manual



**Rotary/Mulch mower 1500
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 Rotary/Mulch mower 1500

To ensure optimal performance of your Park Ranger 2150 Rotary/Mulch mower 1500, 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 Rotary/Mulch mower 1500 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 Rotary/Mulch mower 1500 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

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

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The Park Ranger 2150 Rotary/Mulch mower 1500 operates quickly and effectively to meet your every cutting need – even on difficult lawns.

The Rotary/Mulch mower cuts and recuts the grass into tiny particles and blows them down into the lawn, which fertilises the soil naturally throughout the summer.
The result is a green and well-trimmed lawn.

When the mulch mower kit is removed, the mower becomes a rotary mower with rear discharge, which is especially well-suited to rough, tall grass and always produces an excellent result – even in wet conditions.
(See Page 11)

The Park Ranger 2150 mower 1500 is equipped with piano wheels as standard, which make the mower follow the steering. This also avoids leaving tracks on the lawn.

The Park Ranger 2150 Rotary/Mulch mower 1500 maintains 13.500 - 15.000 m²/hr. It simply races around the lawn with a cutting width of 1,500 mm.

Useful tips

Never allow the radiator grille to become choked with grass. This reduces the cooling effect.

The Rotary/Mulch mower is designed to cut up to one third of the grass height. Adjust the mowing frequency hereafter.

Adjust the speed to suit the desired result – the best result is achieved when you avoid driving too fast.

Ensure the snap couplings are clean before attaching, as this protects the hydraulic system.

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.



Attention

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)



Avoid crushing fingers

Keep your hands and fingers away from areas where there is a danger of crushing. (Picture 2)



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

To reduce noise and energy consumption, never operate with higher engine revolutions than necessary.



Warning! Rotating parts!

To avoid personal injury, make sure no one puts their fingers or toes under the mower while it is in operation. (Picture 4)



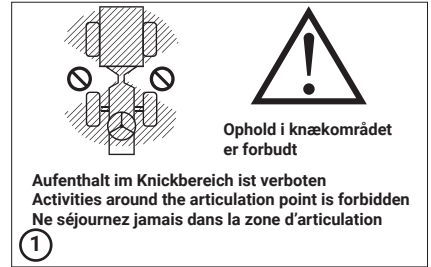
Warning!

Remove stones and branches from the lawn as they can be unintentionally thrown out and cause damage to people and property.



Warning!

Do not stand on mower deck during transport or cutting



①

Prevent people from standing in the working area



②

Warning label



③

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



④

Warning label

General information

1.2 EC Declaration of Conformity for Machinery

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

hereby declares that

Machine: **Rotary/Mulch mower 1500**
Type: **21LMBA**


- has been manufactured in conformity with the provisions of the Machinery Directive, Directive 2006/42/EU, and tested against ISO 5395-03.
- has been manufactured in conformity with the following EC directives: Directive 2000/14/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.

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.

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

General information

1.3 Technical data

Dimensions	Attached	Storage dimensions
Length (L).....	2,800 mm.....	990 mm
Width (W).....	1,582 mm.....	1,582 mm
Height without cab.....	1,210 mm.....	480 mm
Height with cab.....	1,935 mm	

Technical data

Type description.....	21LMBA
Sound power level, re Directive 2000/14/EC.....	105 dB(A)
Own weight.....	127 kg
Cutting width.....	1500 mm
Adjustable cutting height.....	30-80 mm
Performance/hour.....	Rotary approx 15000 m ² /h - Mulch approx 13500 m ² /h
Ground clearance below mower.....	95-115 mm
No. of mower blades.....	3
Cutting speed - Tip speed.....	77 m/sec

Item number

Mulch mower:.....	E90101482
Rotary mower:.....	E90101483

Attention

Specifications may be changed without prior notice.

Optional equipment

Large radiator grille (recommended for lawn mowing).....	E90203191
Mulch Kit - The rotary mower, can be converted to a lawn mower, with a mulch kit.....	E65003045

Operator's manual

**Honest
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2.1 Assembly / Disassembly

Unpacking the mower

The mower is packed and delivered in a cardboard box, on a pallet (Picture 1)

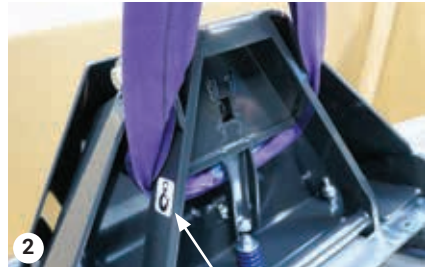
Open the cardboard box.

Use a crane or a forklift, to lift the mower out of the cardboard box (Picture 3)



1

Mower in cardboard box on pallet



2

Lifting point mark



3

Lift out mower with crane or forklift

Operator's manual

2.1 Assembly / Disassembly - continued

Assembly

1. It is recommended that the hydraulic hoses are crossed turned out and run in front of the A-frame on the mower, as this will keep them clear and free from dirt when the mower is fitted. (Picture 1)

2. The locking handle on the A-frame of the machine must be in the open position. (Picture 2)

3. Drive the base machine right up to the A-frame of the mower, so the A-frames fit into each other. (Picture 2)

N.B. It is recommended that the A-frame of the machine is not dropped completely down, as this may damage the mower paintwork when the A-frames are fitted together.

4. Use lever A to lift the A-frame until the support wheels are raised clear of the ground. (Picture 3)

5. Use the locking handle on the A-frame to lock the mower in place. (Picture 2)

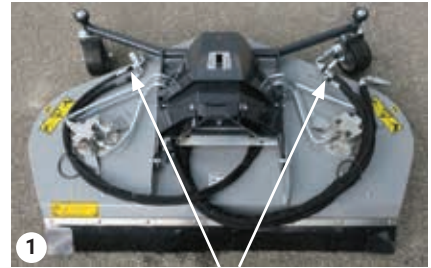
6. Stop the machine.

7. Fit the hydraulic hoses to the D-connectors and B-connectors. (Picture 4 and 5)

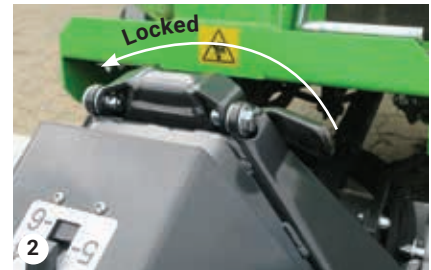
8. Attach the hydraulic hoses with the rubber ring under the running board to ensure that they run correctly over the screen.

Disassembly

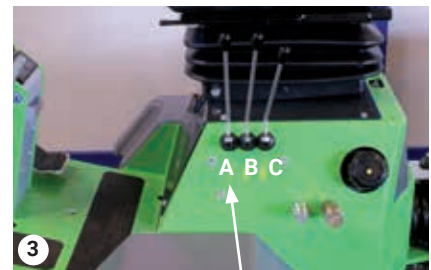
Follow the procedure for fitting in reverse order. Put the protective caps on the snap couplings to protect them from dirt.



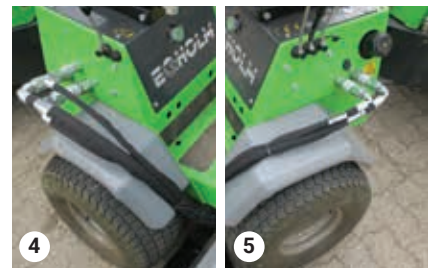
Hydraulic hoses



Locking handle on the A-frame



Lever A



D-connectors

B-connectors

2.2 Important before start-up

During transport – use the transport lock to fix the mower in its raised position. (Picture 1)

Check that the blades are sharp, intact and free from cracks before fitting the mower. This helps avoiding unnecessary breaks in operation while mowing.



Warning!

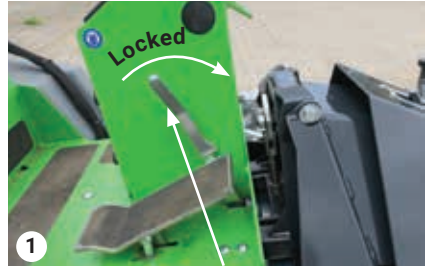
Remove stones and branches from the lawn as they can be unintentionally thrown out and cause damage to people and property.



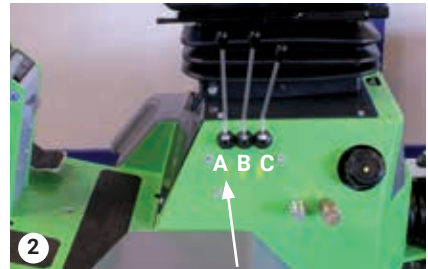
Make sure to avoid driving over manhole covers or similar obstacles to avoid damaging the blades and guard.

2.3 Start-up

1. Start the machine.
2. Press lever A down for approx. 2 seconds, as the mower is then in a floating position and will follow the contours of the terrain.
3. Turn the throttle until it is at least half open. (Picture 3)
4. Start the mower by moving lever D slowly and smoothly up into position 1. (Picture 4)
5. Now open the throttle fully (full power) to achieve the correct blade speed. (Picture 3)
Adjust the driving speed to suit the conditions.



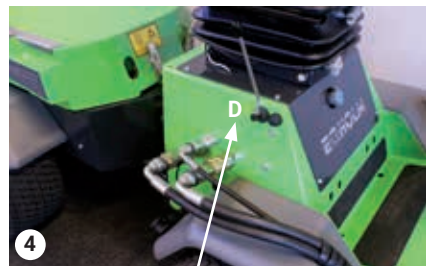
Transport lock



Lever A



Turn the throttle until it is half open



Lever D

Operator's manual

2.3 Start-up - continued

7. To avoid overheating of the unit while mowing, make sure to keep the water cooler, oil cooler and radiator cover free from grass. (See Section 3.1 Cleaning).

We recommend the use of a large radiator grille while mowing grass. This can be ordered from an authorised Egholm distributor.



Warning – Rotating parts

To avoid personal injury make sure no one puts their fingers or toes under the mower while it is mowing.



Warning!

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

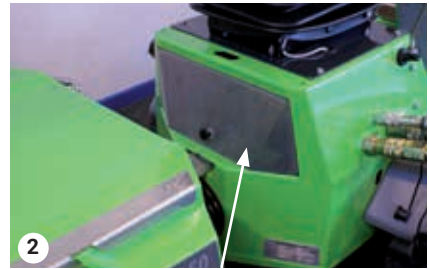


N.B!

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



Water cooler cover



Oil cooler cover



Large radiator grille

2.4 Adjustment

Adjusting the cutting height

Start with a high cutting height to avoid cutting the grass too short.

How to adjust the cutting height

Use handle B

Position 1: For a higher cutting height. (picture 2)

Position 2: For a lower cutting height (picture 3)

Check the mower height and repeat the adjustment until the required cutting height is achieved.

From mulch mower to rotary mower

If you wish to convert your mulch mower into a rotary mower with rear discharge, remove the mulch mower kit. (See picture 4)

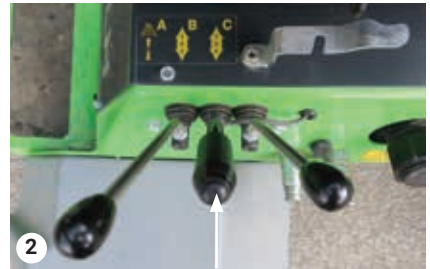
All triangles, and inside screens, and replace the blades with blade set E65003048 (See page 16, for replacing the blades)

From rotary mower to mulch mower

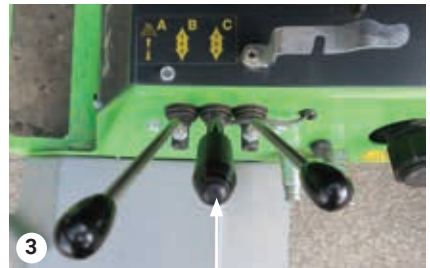
If you wish to convert your rotary mower into a mulch mower, mount the mulch mower kit (E65003045), and replace the blade, with mulch mower blade set (E65003049) - See page 16 for replacing the blades.



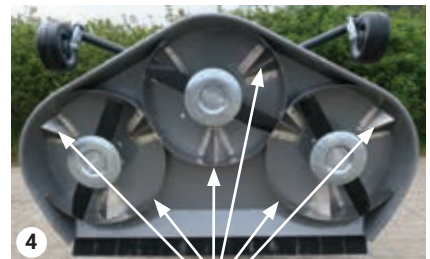
Height adjustment scale



Raising the cutting height - adjustment handle. Position 1



Lowering the cutting height - adjustment handle. Position 2



Mulch mower kit

Service and maintenance

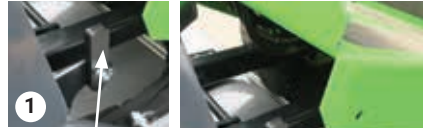
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Service and maintenance

3.1 Cleaning

Cleaning the mower

1. Switch the plastic lever up (picture 1)
2. Raising the mower and engage the transport lock (see 2.2 page 11)
3. Flip the mower forward using handle B to highest cutting height, and keep holding it, until the mower flips forward (Picture 3)
4. Stop the machine
5. Switch the plastic lever down (Picture 2)
6. Clean the mower with water.
We recommend that you clean the mower immediately after operation to stop the grass sticking too firmly to the guard and blades.
7. Flip the mower backwards again, release the transport lock, lower the mower, using lever A.



Location of the plastic lever on the machine



Cleaning the water cooler

1. Remove the water cooler cover by turning the two spring-loaded handles out to the side. (Picture 4)
2. Blow the cover and cooler clean with compressed air.
3. The cooler can be washed using clean water.



Warning!

Do not use hard implements when rinsing the cooler, as this can damage the fins.



Cleaning the oil cooler

1. Remove the oil cooler cover. (Picture 5)
2. Blow the cover and cooler clean with compressed air.



Warning!

Blow the cooler with compressed air before washing the machine. Otherwise the dirt will not wash off.



Service and maintenance

3.2 Maintenance

Replacing the blades

If the blades are damaged, the mower will begin to vibrate. These are replaced as follows:

1. See page 15 for flip up the mower
2. Using a chisel or screwdriver, open the locking plate that locks the bolt heads. (Picture 2)
3. Unscrew the bolts and remove the locking ring and the plate.
4. Attach new blades with the sharp edge facing towards the direction of travel. (Picture 3)
It is recommended to replace the blades one at a time to ensure that they fit correctly.
5. Refit the locking plate and bolts. The bolts should be tightened to a torque of 85 Nm.
6. Lock the bolts by bending the locking plate towards a flat side of each bolt.

It is recommended to avoid using the locking plate more than twice, and to avoid bending it repeatedly. This prevents the blades from falling off during operation.

New blades and locking plates can be ordered from an authorised Egholm distributor.

Blade sets:

For rotary mower..... E65003048
For mulch mower..... E65003049



1 Flip the mower forward



2 Plate, bolts and locking ring



3 Direction of blade travel

3.2 Maintenance - continued

Sharpening the blades

1. See page 15 for flip up the mower
2. The blades should be sharpened equally on both sides to ensure they are correctly balanced.
3. Reattach the blades. (See Page 16)

Winter storage

When it is time to store the mower for the winter, the following steps are recommended:

1. Remove any loose paint and repaint any damaged areas.
2. Spray the mower with protective lubricant.

Conditions

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4.1 Warranty

The warranty period for the materials and manufacture of this Rotary/Mulch mower 1500 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 Rotary/Mulch mower 1500 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.

Wearing parts

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Wearing parts

5.1 Wearing parts - Park Ranger 2150 Rotary/Mulch mower 1500



E65003049 Blade set Mulch
E65003048 Blade set Rotor



E01100300 Wheel



E50009026 Rubber shield

Honest Work.

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