

Operator's manual



**Triplex Rotary Mower 2500
City Ranger 3070**

Introduction

Dear Customer

Thank you for choosing an Egholm product

The City Ranger 3070 is a Danish designed and manufactured utility machine, which allows you to take a very flexible approach to maintaining outdoor areas.

Optimal performance from your City Ranger 3070 Triplex Rotary mower 2500

To ensure optimal performance from your City Ranger 3070 Triplex Rotary mower 2500, 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 Triplex Rotary mower 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 Triplex Rotary mower is designed for use by professionals only. On delivery of the machine, the user will receive thorough training to become a competent operator.

Do not lend the machine or attachments 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 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

Please do not hesitate to contact Egholm should you have questions of any kind regarding your new Egholm product.

Best regards,
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The City Ranger 3070 Triplex Rotary mower 2500 operates quickly and effectively to meet your every cutting need – even on difficult lawns.

The Triplex Rotary 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.

The Triplex Rotary mower with rear discharge feature is especially well-suited to rough, tall and even damp grass, leaving it looking well groomed.

The Egholm mowers are equipped with piano wheels as standard which make the mower follow the steering. This also avoids leaving tracks on the lawn.,

The City Ranger 3070 Triplex Rotary mower 16-24.000 m² per hour. It simply races around the lawn with a cutting width of 2.500 mm.

Useful tips

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

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

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

Ensure the quick couplings are clean before mounting the mower, 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 along slopes with an inclination of more than 5°. (Picture 3)



Warning! Rotating parts

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



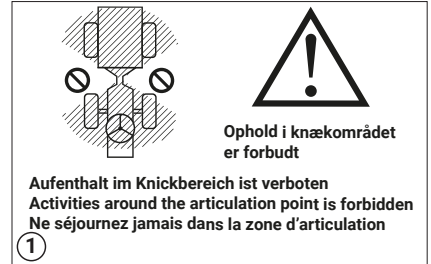
Warning

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



Warning

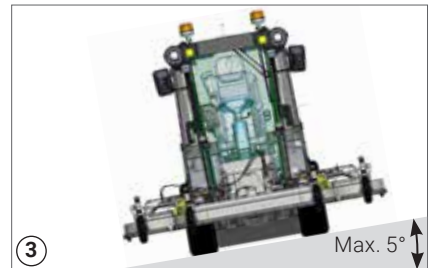
do not stand on mower deck during transport or cutting.



Prevent people from standing in the working area.



Warning label



Do not drive on slopes with an incline of more than 5°



Warning label

General information

1.2 EC Declaration of Conformity

Manufacturer: **GMR maskiner A/S**
Address: **Saturnvej 17 DK · DK-8700 Horsens**
Telephone: **+45 75 64 36 11**

hereby declares that

The machine: **Triplex Rotary Mower 2500**
Type: **TH2500B**

· has been manufactured in conformity with the provisions of the Machinery Directive 2006/42/EU and tested against ISO 5395-03.

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: Horsens

Date:

Signature: 
Poul Møller Rasmussen

1.3 Technical data

Dimensions	Attached	Storage dimensions
Length (L).....	5047 mm.....	1550 mm
Width (W).....	1880-2535 mm.....	1880 mm
Height (H).....	2000-2210 mm.....	500 mm

Technical data	
Type.....	TH2500
Sound power level, re	
Own weight	365 kg
Cutting width.....	2480 mm
Adjustable cutting height	30-80 mm
Performance/hour approx	up to 24800 m ² /h
Ground clearance below mower.....	250 mm
No. of mower blades	5 pcs

N.B!
Specifications may be changed without prior notice.

Types
Rotary Mower E56000604.

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2.1 Assembly / Disassembly

Unpacking the mower

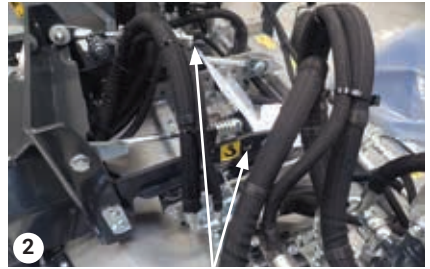
The mower is packed and delivered on a pallet, and wrapped with plastic. (Picture 1)

Unpack the mower.

Use a crane or a forklift, to lift the mower down from the pallet. (Picture 2)



Mover wrapped in plastic



Lifting point marks

Operator's manual

2.1 Assembly / Disassembly - continued

Check that the blades are sharp, intact and free from cracks before attaching the mower. This avoids unnecessary breakdown while mowing.

Assembly

1. The locking handle on the A-frame of the basic machine must be in the unlocked position. (Picture 1)
2. Drive the basic machine right up to the A-frame of the mower. Lower the A-frame slowly using the right joystick (blue) so the A-frames fit into each other. (Picture 2)
3. Raise the A-frame by pulling the right joystick back until the support wheels hang free of the ground. (Picture 3)
4. Switch off the engine.



Attention

Always clean the couplings on the attachment and basic machine before mounting.

5. Use the locking handle on the A-frame to lock the mower in place. (Picture 4)

The locking handle may only be turned/engaged when the engine has been switched off.

Removal

For demounting the mower, follow the procedure for fitting in reverse order.



Lock handle - Open position



Attaching



A frame lifted



Locked position

2.2 Important before start-up

During transport

Lift the mower to highest position and make sure, the transport locks for the wings are in locked position.

(Picture 1)

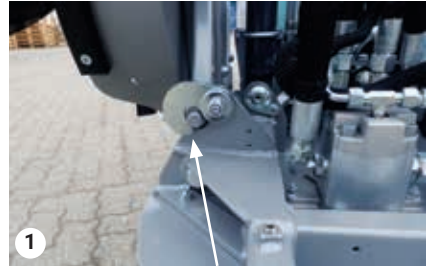
In transport mode the driver can use load suspension to improve the comfort during transportation. Press the button and the load suspension is on. (Picture 2)

Tighten or loosen load suspension with the right joystick (blue).



Warning

Do not drive over manhole covers or similar obstacles to avoid damaging the blades and guard.



Transport locks must be in locked position



②

Load suspension

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2.3 Start-up

1. Before startup, unlock the transport locks for the wings. (Picture 1)

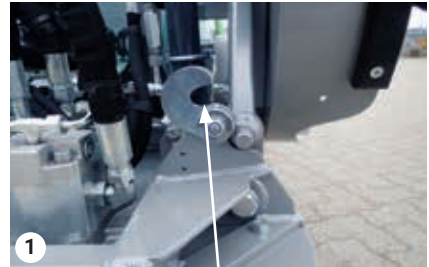
2. Start the machine.

3. Move down the wings by using right joystick, for right wing and left joystick for left wing. (Picture 2).

For using both wings at the same time, press down the blue button, and push forward to set wings down, and backward to lift the wings.

4. Choose summer menu on the screen (flower). (Picture 3)
- choose 2500 mm mower on the screen. (Picture 4)

When the attachment is chosen in the menu, return to the transport screen by clicking at the "X" button below the encoder "wheel".



Unlock the transport locks



Left joystick - Left wing
Right joystick - Right wing



Choose summer attachment in the machine menu (flower)



Choose 2500 mower 2,5 m mower
with foldable wings

2.3 Start-up - continued



Warning

Make sure to choose the right attachment in the machine screen menu. A wrong choice may have influence on the safety on the machine, and will damage the attachment.

2. Start the mower by activating the WM (working mode) button on the keypad panel. The mower lowers automatically and start up thereafter, when pressing the WM button for 1-2 seconds. To avoid too much pressure from mower tyres, always use the weight transfer. Press the button on the keypad to activate weight distribution. (Picture 1)

When Work Mode (WM) is activated, the weight distribution can be adjusted on the main display by clicking at "kg" turning the encoder button (wheel). (Picture 2)

3. Use the drive pedal to achieve the right speed. The speed range in work mode can be set in 3 different levels/ranges.

Press the speed limitation button to change level of speed range (Picture 3). Can only be activated, when not mowing and in work mode. Level 1: Up to approx. 8 km/h, level 2 up to 15 km/h and level 3 up to 25 km/h. The chosen level can be seen by diodes.

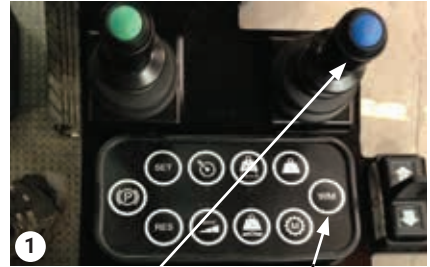
4. Adjust the driving speed to suit the conditions. The City Ranger 3070 has an optional cruise control for speed setting.

The cruise control is activated by pressing the cruise control button. When the right speed is reached, push the set button. The machine will now drive with the set speed. To increase the speed, push the set button. To decrease the speed, push the resume button. (Picture 3)

5. When the cruise control is on, the brake pedal can be used as inch pedal, when activating the first "step" of the pedal. When activating the pedal, the machine will slow down. When releasing the pedal again, the City Ranger 3070 will return to previous set speed. (Picture 4)

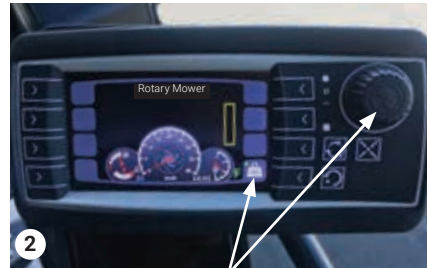
Note

When the weight distribution button is on in working mode, the A-frame will lower automatically after lifting.



Lower the mower

Working mode button



Weight distribution can be adjusted



3

Set Resume Speed limitation Cruise control



4

Braking and Inch pedal

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2.3 Start-up - continued

6. Make sure to keep the cooler and radiator grilles free from grass. This ensures the correct cooling effect to protect the engine. (Picture 1+2)
(See Cleaning section 3.1)

Note: When the mower is chosen in the menu, the cooler fan will automatically change to reverse during operation with a set interval to blow grass away from the grill (one time each minute).



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.



Warning

To avoid personal injury, make sure the right attachment is chosen in the machine screen menu.



Cooling grille



Rear filter

2.3 Start-up - continued

When cutting grass in (workmode) (Picture 1)

When raising sidewing(s), the blades will stop. The mower can be used with one or both wings up. (Picture 2).



Workmode

2.4 Adjustment

Each wheel is moved individually. The adjustment is done with 6 spacer rings in range of 30-80 mm. (Picture 3).

Remove the locking ring and remove the wheel. Place the wheel and place the desired number of spacer rings between wheels and mower suspension. (Picture 4).



Blades in lifted wings will automatically stop

Note

Make sure, that same quantity of space rings are the same on all wheels.



Adjust with spacer rings



Place spacer rings between wheel and mower suspension.

Operator's manual

2.5 Tilt mower for maintenance and service procedures

1. Lift the A-frame in highest position.
2. Check the wheels are turned forward
3. Turn tilt handle to horizontal position.
4. Use right joystick left or right, to tilt the mower.
5. Stop the machine.

Lower the mower again

1. Start the City Ranger 3070.
2. Lower the mower by pushing the left joystick to the left. (Picture 2)
3. When the mower is down and in place, stop the City Ranger 3070. Set the tilt handle to vertical position tilt lock. (Picture 4)



Warning

Never start the mower with tilt handle in tilt position.



Handle in horizontal position for tilt.



Left joystick - Lower the mower
Right joystick - Tilt the mower



Mower tilted



Tilt lock

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.

It is important that the couplings are intact and cleaned before mounting the attachment. If not clean, use a cloth or similar. (Picture 2)

Cleaning the mower

1. Keep the mower mounted on the City Ranger 3070.
 2. Tilt the mower up. (See section 2.5 for tilt). (Picture 1)
 3. Clean the mower with water.
 4. Avoid high pressure cleaning of the quick couplings - use a cloth or similar. (Picture 2)
- It is recommended to clean the mower immediately after operation to stop the grass sticking to the guard and blades.



Tilt the mower



Clean the quick couplings

Service and Maintenance

3.1 Cleaning - continued

Cleaning the filters for the coolers

1. Check radiator covers are free at all times.
(Picture 1)
2. Clean the grilles and cooler using compressed air or use a brush to keep the filters clean.
3. If the radiators are dirty they must be cleaned.
(Picture 2) (See City Ranger 3070 user manual)
4. The radiator guards must be cleaned regularly if cutting very dry grass.



Attention

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



Warning

Clean the cooler with compressed air before washing the machine. Otherwise the dirt will stick and be difficult to remove.



Open the side screens



Wash with clean water

Service and Maintenance

3.2 Maintenance

Greasing

Each cylinder has 2 greasing nipples and the wheels have one each - 8 places in total. (Picture 1)

Replacing the blades

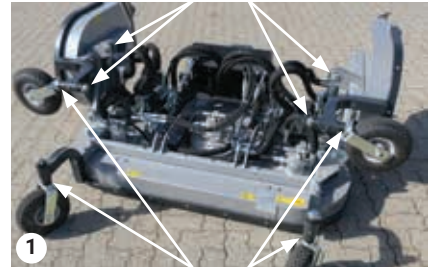
If the blades are damaged, the mower will begin to vibrate. These are replaced as follows:

1. Tilt up the mower. (See section 2.5 tilt.) (Picture 2)
2. Switch off the machine.
3. Switch off the PTO.
4. Unscrew the bolts.
Note: The 3 knives in right side are mounted with standard 1/2" -13 UNC thread and the 2 knives in left side are mounted with LINKS 1/2" - 13UNC thread

5. Attach new blades with the sharp edge facing towards the direction of travel. (Picture 4)
It is recommended to replace the blades one at the time to ensure that they fit correctly.

6. Refit bolts. The bolts should be tightened to a torque of 110 Nm.

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



Greasing (8 places in total)



Tilt the mower



Bolts



Direction of blade travel

3.2 Maintenance - continued

Sharpening the blades

1. Tilt up the mower.
2. Switch off the machine.
3. Detach the blades. (See Page 17)
4. The blades should be sharpened equally on both sides to ensure they are correctly balanced.
5. Attach the blades again. (See Page 17)

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 oil.
3. Make sure all grease points are full.

Conditions

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4.1 Warranty

The warranty period of this City Ranger 3070 Triplex Rotary mower is valid from the date of purchase and mandatory filled out Start-up Warranty form. For more information, take contact to the Regional Sales Manager of Egholm.

In case of errors or defects on the machine within the warranty period, the CCS system should be used to report the issues. Egholm will analyse and look into each situation. If instructions are correctly followed and misuse, incorrect or improper use is not the case, 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 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, wrongfully performed maintenance or lack of the same, consequential damages 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 Triplex Rotary Mower 2500 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 all plastic and rubber parts and discard appropriately.
3. After the aforementioned parts have been removed, the Triplex Rotary Mower 2500 is ready to be handed over to a local approved scrap merchants.

Wearing parts

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Wearing parts

5.1 Wearing parts – City Ranger 3070 mower



E50009284 Wheel



E50009285 Wheel w/bearing



E50009286 Bar POM



E50009299 Blade Rotary Mower
Right rotating



E50009300 Blade Rotary Mower
Left rotating



E50009338 Rubber Guard Wing
outer



E50009339 Rubber Guard Wing
inner



E50009340 Rubber Guard
Outer



E50009343 Rubber Guard
Middle

Honest Work.

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