

Operator's manual



**Weed brush
City Ranger 3070**

Introduction

Dear Customer

Congratulations with your new Egholm product

The City Ranger 3070 is a Danish designed and manufactured product, which offers a very flexible way of maintaining outdoor areas.

Optimal use of your City Ranger 3070 weed brush

To ensure optimal performance of your City Ranger 3070 weed brush, 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 weed brush 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 weed brush is designed only for use by professionals. On delivery, the user will receive thorough training to become a competent operator. Do not lend to anyone who has not been thoroughly trained and who has not read this manual carefully.

The operator's manual should be considered as a permanent part of the machine and 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 the Egholm policy to make continuous improvements, we reserve the right to alter the machine specifications and equipment at any time without notice. Egholm accepts no liability for errors or omissions in the operator's manual.

Contact us

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

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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The weed brush is the perfect, most-effective eco-friendly attachment for keeping outdoor areas weed-free, i.e. pavements, paths, flagstones, asphalt, etc. There isn't a weed anywhere that can resist the rotating brush as it sweeps over it.

The brush scours weeds loose and stresses new shoots. Regular brushing keeps an area weed-free without the use of pesticides.

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)



The Weed brush swings to the side when the right joystick (blue) is moved left or right. 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.

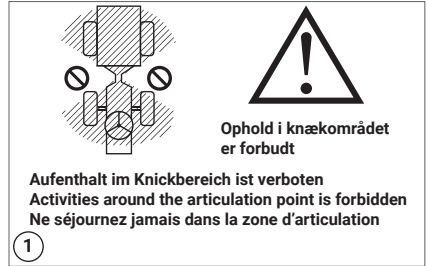


Avoid roll-overs

Do not drive the machine in a place where it can slide, tip or roll. Do not drive along slopes with an inclination of more than 5°. (Picture 3)

When using with hopper

Read the safety instructions in the suction sweeper operator's manual.



Prevent people from standing in the working area



Joystick



Do not drive along slopes with an inclination of more than 5°

General information

1.1 Safety - continued



Beacon must be turned on

While working on public roads, the beacon must be turned on in order to warn the approaching traffic.



Danger of flying objects

During operation, no people or animals are allowed within 5 m around the vehicle.



Special driving and steering characteristics of the vehicle

The vehicle speed must be adapted to the weather and traffic conditions.



Large front attachment

The Weed brush swivels outwards during strong steering movements.



Risk of crushing in the swivel area of the Weed brush

Maintenance and installation work must be carried out when the machine is stationary and the hydraulic system is not under pressure.



Risk of infection and/or injury from escaping hydraulic oil

Hydraulic oil can cause skin rashes and other health problems. Even a fine stream of oil can penetrate the skin and cause serious injury. In this case, consult a doctor immediately.

The hydraulics should only be connected when the vehicle is stationary and the hydraulic system is not under pressure and the engine is shut off.



Avoid eye injuries

Wear eye protection.



Destruction of the hydraulic hoses by pinching or rubbing against the structural parts

When connecting the hydraulic hoses, make sure their installation is kink and abrasion free.

1.1 Safety - continued

In addition to these operating instructions, the generally applicable and specific local regulations concerning accident prevention and environmental protection as well as the accident prevention regulations of the Agricultural Trade Association must be followed.

The vehicle and the attachment must be checked before each use for any visible damage and the functioning of its safety devices.

Unauthorized modifications to the attachment and its safety devices are prohibited and exclude any liability of the manufacturer.

Bypassing or otherwise disabling the safety devices is prohibited.

All general safety instructions and warnings on the machine must be kept in a legible condition.

When the Weed brush is attached, this operator's manual must always be kept in the cab of the vehicle.



Possible environmental pollution

- Do not spill any hydraulic oil.
- Take precautions to clean up any spilled hydraulic oil.
- The handling and disposal of hydraulic oils are subject to legal provisions.

Only persons with special knowledge and experience in the field of hydraulics are allowed to operate the hydraulic devices.

Regularly check the hydraulic hoses for leaks. They must be replaced at regular intervals, even if no defects are present (See the Section 3.1 Service and Maintenance chart in the Operator's manual for the City Ranger 3070 Basic machine).

General information

1.2 EC Declaration of Conformity

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

hereby declares that

The machine: **Weed brush**
Type: **30WBAA**

· has been manufactured in conformity with the provisions of the Machinery 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).....	5.040 mm.....	1.500 mm
Width (W).....	1.220 mm.....	1.000 mm
Height (H) height with beacon	2.000 / 2.210 mm.....	850 mm

Technical data

Type.....	30WBAA
Working zone width	2.100 mm
Ground clearance under brush	330 mm
Ground clearance under vacuum nozzle	90 mm
Brush diameter	675 mm
Weed brush weight	131 kg
Typical working speed	2-4 km/h

N.B!

Specifications may be changed without prior notice.

Operator's manual

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2.1 Assembly/Disassembly

Unpacking the Weed brush

The Weed brush is packed and delivered in a box (Picture 1)

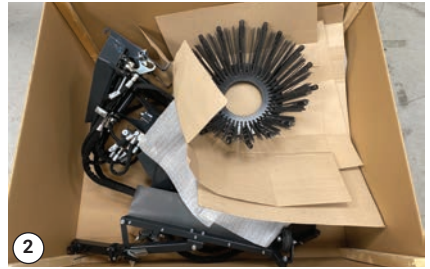
Remove brush, guard and suction mouth if ordered, Options. (Picture 2)

The Weed brush lifting point is located at the top of the brush (Picture 3)

Use a crane or forklift to lift the Weed brush out of the box. (Picture 4)



1 Weed brush



3 Lifting point



4

Operator's manual

2.1 Assembly/Disassembly - continued

1. The locking handle on the A-frame of the basic machine must be in the unlocked position. Remember to lift the A-frame to the top position before driving over the suction mouth (Picture 1-2)

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

3. Raise the A-frame by pulling the joystick back until the weed brush is suspended and free of the ground. (Picture 3)

4. Stop the machine.



Note

It is important not to lift the brush completely, if it is completely lifted, it is not possible to lock and connect the brush.

5. Lock the weed brush in place with the locking handle on the A-frame. (Picture 4) The locking handle may only be engaged when the machine has been stopped.

If the locking handle is engaged with the engine running the hydraulic couplings may be damaged.

Removing

Follow the procedure for fitting in the reverse order.



1 Locking handle



3 Handle in unlocked position



4 Locking the attachment

2.2 Before start-up

Transport

Raise the A frame to highest position before driving. Use right joystick (blue) and move backwards.

For smoother transport it is possible to use the load suspension. Press the load suspension button and load suspension is on. The function only works in transport mode. (Picture 1)



Warning

never lower the A-frame during transportation.



Load suspension button and Right joystick

2.3 Start-up

1. Start the machine. (See Basic machine manual)

2. Choose gray / brush menu on the display. (Picture 2)

3. Choose Weed brush in the gray menu. (Picture 3)

4. When using with hopper
Read the safety instructions in the suction
sweeper operator's manual. (Picture 4)



Choose gray / brush menu



Choose Weed brush



Choose Hopper

Operator's manual

2.3 Start-up - continued

Adjust the Weed brush

3. Start the Weed brush by activating the working mode button (WM). (Picture 1)

To disable work hydraulics, press the WM button briefly. To disable Work Mode completely, press the button for 2 seconds.



WM button

4. It is possible to change the brush rpm, weight transfer and engine rpm by selecting the correct bar and press the encoder to activate the bar. Turn the encoder left for lower and right for higher values of the selected bar. (Picture 2)

5. There are different brush settings to change. (Picture 4)

a) Engine rpm

When activating this bar engine RPM can be adjusted. (Picture 4, a)

b) Brush rpm.

When the Brush rpm bar (Picture 4, b) is selected, push the encoder, the bar turns green and the brush rpm can be changed by turning the encoder.

c) Weight distribution - removing weight from the brush.

When activating this bar (Picture 4, c) it is possible to adjust the brush pressure against the ground. Press the encoder, the bar turns green and the brush pressure can now be adjusted.

For activating the weight transfer press the weight distribution button on the keypad. (Picture 3)

d) Reversing brush rotation direction.

The brush reverses until the button is pressed again and the button green indicator light turns off. (Picture 4, d)

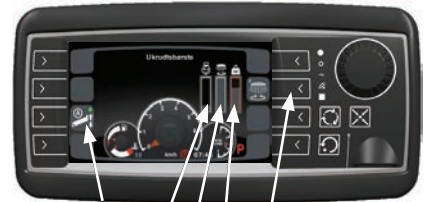
e) Lifting the brush automatically when reversing (Option). If button (Picture 4, e), is activated (lighted) the brush is lifted from the ground when the CR3070 is in reverse.



Brush menu and encoder, scroll to bar to adjust, followed by a press at the encoder to adjust the bar level.



Activating weight distribution (c)



e a b c d

2.3 Start-up - continued

6. Turn the Weed brush by moving the joystick to the left or to the right. The Weed brush swings in the same direction as the joystick. (Picture 1)



Warning

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



The Weed brush swings to the side when the joystick is moved left or right. Make sure that no one is standing near 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.

To increase the lifetime of the brushes, Egholm recommends to work with as little brush pressure as possible.

Always work with weight distribution adjusted and activated to set the right pressure depending on amount of Weed and having lowest possible wear of brushes and ground surface in mind.



Swing the brush left and right.

Operator's manual

2.4 Sideways arm movement



Warning!

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

The arm can move from side to side:
(Pictures 1+2)

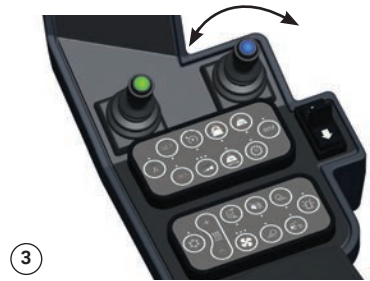
1. Move the joystick sideways to move the arm out to the side. (Picture 3) The arm swings in the same direction as the joystick.



Right



Left



Joystick

2.5 Forward/back brush adjustment

The brush can tilt forward and back.
(Pictures 1+2)

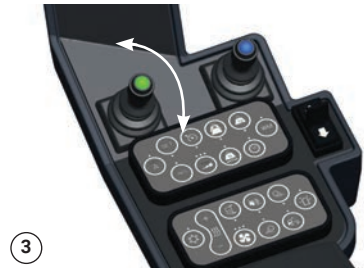
Move the joystick back and forth (Picture 3)
The brush tilts in the opposite direction as the joystick.



Forward



Back



Joystick

Operator's manual

2.6 Sideways brush adjustment

The brush can tilt from side to side.
(Pictures 1+2)

Tilt the brush left to right by move the joystick right or left. (Picture 3)



Right



Left



2.7 Weed Brush applications

The Egholm weed brush design makes it extremely flexible.

Three applications

1. Scouring weeds horizontally. (Picture 1)
2. Scouring weeds vertically on left side. (Picture 2)
3. Scouring weeds vertically on right side. (Picture 3)

N.B!

Vertical scouring requires weight distribution.
(See City Ranger 3070 operator's manual)

Tips!

The brush can also scour in front of the machine, so the operator can easily clean pavements and deep gutters. (Picture 4)



Operator's manual

2.8 Change between vertical and horizontal brushing



Warning!

The brush head can move when the locking pin is lifted. Keep your distance from the brush head when the handle is used. The brush is abrasive. We recommend the use of protective gloves.

Changing from horizontal to vertical brushing

1. Lift the weed brush, engage the transport lock (see section 2.1) and stop the machine.
2. Lift the locking pin to the open position. (Picture 1)
3. Turn the brush head manually to the desired position. (Picture 2)
See weed brush 'Three applications' for positions. (Picture 2)
4. Free the handle so the locking pin is again engaged. (Picture 3)
5. Continue to turn the brush head to the desired position until the locking pin falls into position with a click. (Picture 3)

Positioning the brush completely vertically requires extra adjustment using the joystick. (See Section 2.7)



Locking pin open position



Turn brush head



3. Vertical left – 1. Horizontal– 2. Vertical right



Free/continue turning

2.9 Keeps areas weed-free by collecting

Collecting removes seeds and organic matter. In perfect conditions, all loose organic material is collected and removed from the area.

See the suction sweeper operator's manual on how to use the hopper.

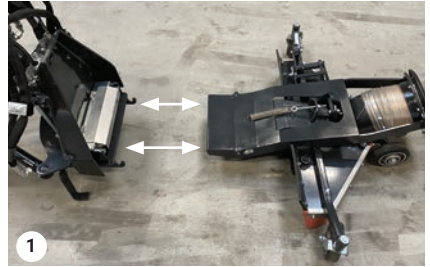
Fitting the vacuum nozzle

1. Detach the weed brush from the machine.
2. Push the vacuum nozzle in between the support struts and fit in the two small notches. (Pictures 1+2+3)
3. Fit the weed brush on the machine.

Repeat the process in reverse order to detach vacuum nozzle.

Tips!

When the vacuum nozzle is not in use, it can be stored away, preventing the rubber guard from being warped.



Fitting the vacuum nozzle



Fitting the vacuum nozzle



Vacuum nozzle fitted

Operator's manual

2.10 Guard use

Guard use

The guard is used to prevent scoured weeds from spreading over a wide area and for collecting the weeds under the vacuum nozzle. When ordering, indicate which side you would prefer the guard to be on. You can also remove the guard and fit it onto the opposite side, if required. Guards can be fitted onto both sides, but only one can be raised at a time.

Fitting and raising guard

1. Set the guard in place and fit the pin.
(Picture 1)
2. The guard can be raised if it gets in the way.
(Picture 2)
3. If the guard needs to be lowered again, pull the button and push guard down manually. (Picture 3)



Pin



Raised



Release button

Service and maintenance

**Honest
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Service and maintenance

3.1 Cleaning

Always make sure the machine is stopped and the main switch is disconnected before doing any service or maintenance. Daily cleaning and maintenance will extend the lifetime of both the machine and the attachment.

Clean the weed brush with water after use. Avoid high pressure cleaning of the snap couplings.

Clean the snap couplings with a cloth.
(Picture 1)



"Clean couplings with a cloth"

3.2 Adjusting the guard

As the brush wears, the guard will need to be adjusted.

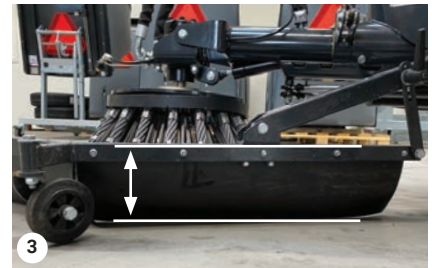
1. Place the brush flat on the surface.
2. Loosen the handle. (Picture 2)
3. Adjust the guard height so that it is parallel with the surface. (Picture 3)
4. Tighten the handle.

It may be necessary to adjust the guard sideways.

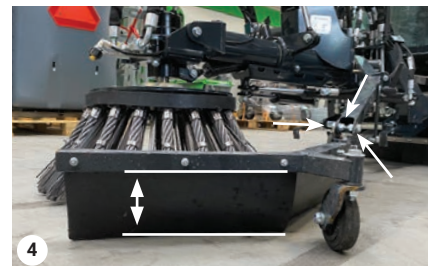
1. Place the brush flat on the ground.
2. Loosen the three bolts. (Picture 4)
3. Adjust the guard so that it is parallel to the surface.
4. Tighten the bolts.



Handle



Parallel



Loosen the bolts. Guard parallel with surface

3.3 Lubrication / storage

There are 8 lubricating nipples on the weed brush.
(Picture 1+2)

Lubricate with EP2 lubricant after 50 hours of operation or after washing.

Guard fixture. (Picture 3)

Storage outside the season

When the weed brush is to be stored outside the season, it is recommended to remove any loose paint and to repaint any damaged areas.

It is recommended that the attachment is greased or sprayed with protective lubricant.

3.4 Replacing the brush

The brush is changed while the attachment is on the machine.

1. Place the brush as shown in picture 4 (see section 2.4) and lock the transport lock.
2. Remove the three nuts. (Picture 5)
3. Change the brush and fit the nuts.



Warning!

Make sure no one is under the brush when the bolts are removed. The brush is abrasive. Use protective gloves.

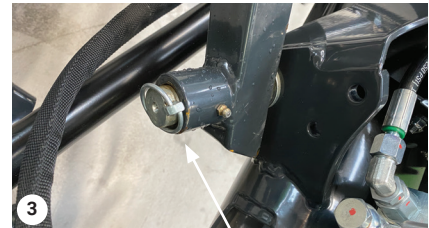
A new brush can be ordered from an authorised Egholm dealer.



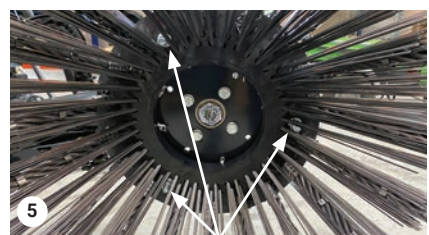
Lubricating nipples



Lubricating nipple



Lubricating nipple - Guard fixture



Three nuts

Service and maintenance

3.5 Guard maintenance

Changing the guard rubber profile

1. Fold arm up and loosen nuts. (Picture 1)
2. Remove rubber profile. (Picture 2)
3. Fit new rubber profile and tighten screws.

Changing a wheel

1. Remove the bolt and wheel. (Picture 3)
2. Fit new wheel.
3. Tighten bolt.



Nuts



Remove rubber profile



Remove nut

Service and maintenance

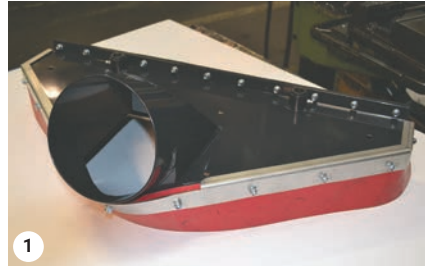
3.6 Maintenance

Replacing the rubber sleeve

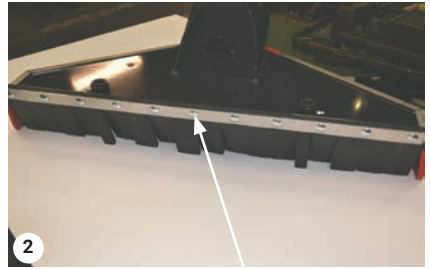
1. Remove the Weed brush from the basic machine.
2. Dismount all bolts holding the rubber, replace the rubber, remount the bolts.

Same for front and backside rubber.

New rubber sleeves can be ordered from your authorised Egholm dealer.



Backside rubber
unscrew all bolts, change the rubber



Front rubber unscrew all bolts and change the rubber

Conditions

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4.1 Warranty

The warranty period for the materials and manufacture of this weed brush is 24 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 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 distributor, from whom 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 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. 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 to any complaints.

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

Best Regards
Egholm A/S

4.3 Disposal

Many years from now, when your weed brush has reached the end of its working life, it should be disposed of in a responsible manner that conforms with relevant disposal regulations.

1. Waste hydraulic oil must be disposed of at an approved waste disposal facility or site.
2. Remove all plastic and rubber parts and dispose of.
3. After the parts mentioned have been removed, the machine is ready to be handed over to one of your local approved scrap merchants.

Honest Work.

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