

Operator's manual



**Weed brush
City Ranger 2260/2250**

Introduction

Dear Customer

Congratulations with your new Egholm product.

The City Ranger 2260/2250 is a Danish designed and manufactured product, which offers a very flexible way of maintaining outdoor areas.

Optimal use of your City Ranger 2260/2250 weed brush:

To ensure optimal performance of your City Ranger 2260/2250 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's 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

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

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The weed brush is the perfect, most-effective eco-friendly tool 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.



N.B!

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 joystick 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.

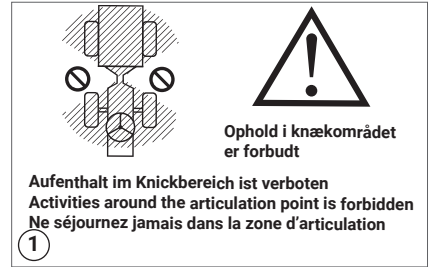


Avoid roll-overs:

Do not drive the machine in a place where it can slide, tip or roll. Do not drive on slopes with an incline of more than 10°. (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 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**
Telephone: **+45 97 81 12 05**

hereby declares that

The machine: **Weed brush**
Type: **22UKB2260/2250**

· 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: 
Knud Olsen, Senior Engineer

General information

1.3 Technical data

Dimensions:	Attached:	Storage
Length (L)	3,850 mm	dimensions:
Width (W)	1,020 mm	1,500 mm
Height (H)	1,960 mm	1,000 mm
		850 mm

Technical data:	
Type	22UKB2250
Working zone width	2,100 mm
Ground clearance under brush	330 mm
Ground clearance under vacuum nozzle	90 mm
Brush diameter	675 mm
Brush weight	115 kg
Typical working speed	2-4 km/h

N.B!

Specifications may be changed without prior notice.

Operator's manual

**Honest
Machines**

2.1 Assembly/Disassembly

1. The locking handle on the A-frame of the basic machine must be in the unlocked position. (Picture 1)
2. Drive the base machine right up to the A-frame of the weed brush, so the A-frames fit into each other. (Picture 2)
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.
5. Lock the weed brush in place with the locking handle on the A-frame. (Picture 4) The locking handle can only be engaged when the machine has been stopped.

Removing:

Follow the procedure for fitting in the reverse order.



Locking handle



Locking



Joystick



Locking the attachment

Operator's manual

2.2 Before start-up

Transport

Position the weed brush arm in front of the machine for optimum stability. The transport lock prevents the attachment from lowering during transport. (Picture 1)

How to use the transport lock:

Move the handle to the uppermost position. Lift the A-frame by moving the joystick up. As the A-frame lifts, the transport lock is automatically activated. (Picture 2)

How to unlock the transport lock:

Unhitch the handle and lift the A-frame to the uppermost position. The attachment can now be lowered again. (Picture 3)

Counterweight

It is recommended that counterweights are fitted to the machine for stability when using the weed brush with the suction sweeper hopper tank.

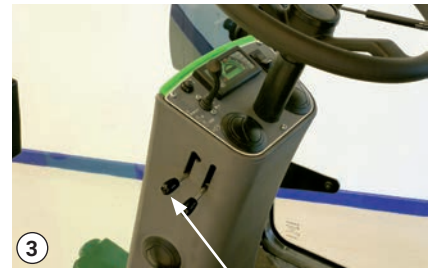
New counterweights can be ordered from an authorised Egholm distributor.



Arm in front of the machine



Transport lock – locked



Transport lock – unlocked

2.3 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 2260/2250 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

2.4 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 2.2) and stop the machine.

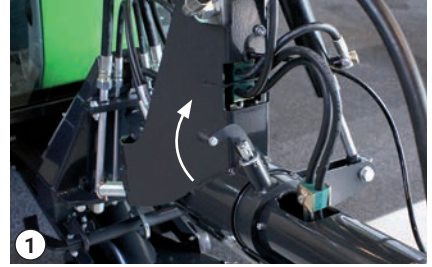
2. Lift the locking pin to the open position. (Picture 1)

3. Turn the brush head manually to the desired position. (Picture 2)
See weed brush 'Three applications' for positions. (Picture 3)

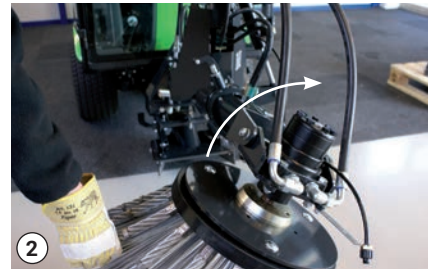
4. Free the handle so the locking pin is again engaged. (Picture 4)

5. Continue to turn the brush head to the desired position until the locking pin falls into position with a click. (Picture 4)

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

2.5 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 and 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.



Left



Right



Operator's manual

2.6 Forward/back brush adjustment

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

1. Move switch F2 to locked position (R). (Picture 3)
2. Move joystick sideways. (Picture 4) The brush tilts forward and back.



Forward



Back



Switch F2, locked position



Forward - Back

2.7 Sideways brush adjustment

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

1. Press on the black button on the joystick. (Picture 3)
2. Move joystick sideways. (Picture 3) The brush tilts in the same direction as the joystick.



Left



Right



Engage the black button and move sideways

Operator's manual

2.8 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.

When the vacuum nozzle is operating at the centre of the machine below the A-frame, some weed brush flexibility is lost. The vacuum nozzle work width is 340 mm and loosened organic material must be precisely under the nozzle for the best results. (Picture 1)

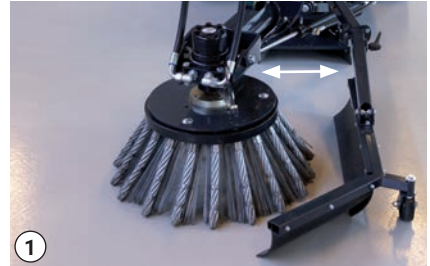
Fitting the vacuum nozzle

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 2+3)
3. Fit the weed brush on the machine.

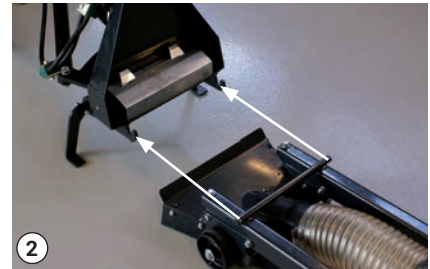
Repeat the process in reverse order to detach vacuum nozzle.

Tips!

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



Vacuum width: 340 mm



Fitting the vacuum nozzle



Vacuum nozzle fitted

2.9 Directional-rotation and resonances

Brush rotation direction

The weed brush is extremely flexible because brush rotation can be reversed and the brush can be used on both sides of the machine.

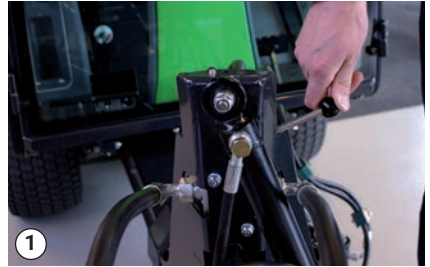
Right rotation. (Picture 1)

Left rotation. (Picture 2)

Resonances

Initially, certain brush types cause resonances, especially if the brush is operating completely flat. These resonances can also be generated when the direction of rotation is changed or if the operator drives too fast.

To avoid resonances, slightly tilt the brush initially or drive more slowly.



Right



Left

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



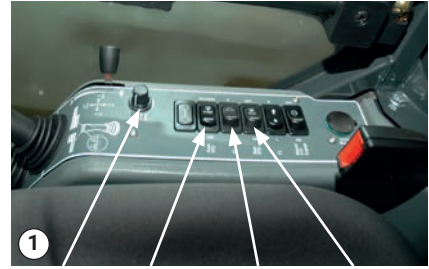
Raised



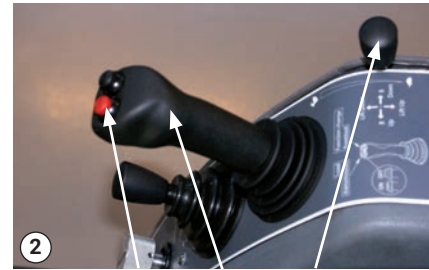
Release button

2.11 Weed brush start-up

1. Start the machine
2. Set the weed brush to the required position.
(See section 2.3-2.7)
3. Start the weed brush using the PTO front switch
(Picture 1)
4. Adjust the speed of the weed brush to the desired speed with the front RPM button (variably adjustable reduction of rotation).
(Picture 1)
5. Lower the weed brush to the ground by moving the joystick forward.
6. Activate weight distribution. (Picture 2)



Front RPM Front PTO Water (F1)
Rear PTO



Weight distribution Joystick Throttle

Collecting (See section 2.8)

- Start the suction in the hopper using the Rear PTO switch. (Picture 2)
- Push the throttle all the way forward. (Picture 2)
- In dusty conditions, turn on the water-sprayer using the Water Front Brushes (F1) switch. (Picture 2)

Weight distribution

When brushing horizontally, the weight must be on the attachment. When brushing vertically, weight must be distributed away from the weed brush. See the City Ranger 2260/2250 operator's manual.

Tip!

Regulating brush speed reduces wear on the brush and on surfaces.
See the City Ranger 2260/2250 operator's manual.

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.

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.

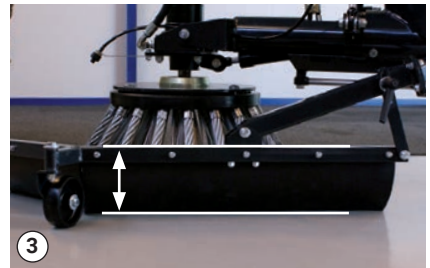
1. Place the brush flat on the surface.
2. Loosen the handle. (Picture 2)
3. Adjust the guard height so that it is parallel with the surface. (Picture 3)
4. Tighten the handle.

It may be necessary to adjust the guard sideways.

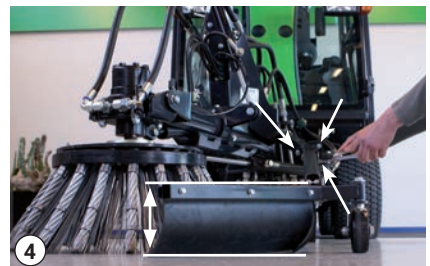
1. Place the brush flat on the ground.
2. Loosen the three bolts. (Picture 4)
3. Adjust the guard so that it is parallel to the surface.
4. Tighten the bolts.



Handle



Parallel



Loosen the bolts. Guard parallel with surface

Service and maintenance

3.3 Adjusting the vacuum nozzle

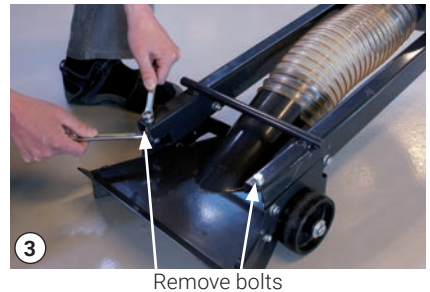
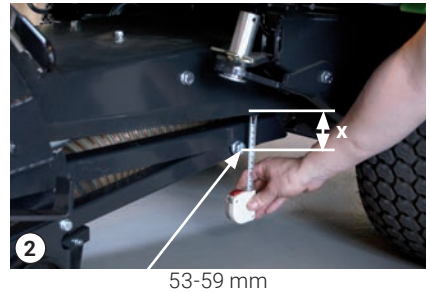
The vacuum nozzle setting is pre-set before delivery.

When fitting the vacuum nozzle for the first time, or if the vacuum level is less than optimal, we recommend checking the machine's vacuum hose connection.

1. Fit the vacuum nozzle and attach the weed brush to the machine.
2. Check X. (Picture 1+2) It must be between 53 and 59 mm, from the lower edge of the A-frame to the centre of the bolt.

To adjust:

3. Detach the vacuum nozzle.
4. Remove the two bolts. (Picture 3)
5. There are extra washers under the nuts. (Picture 4) To reduce distance (X) fit an extra washer under the bolt. To increase distance X, remove a washer. One washer alters the distance by 6 mm. Both bolts must have the same number of washers.
6. Tighten the bolts and repeat steps 1 and 2.



Service and maintenance

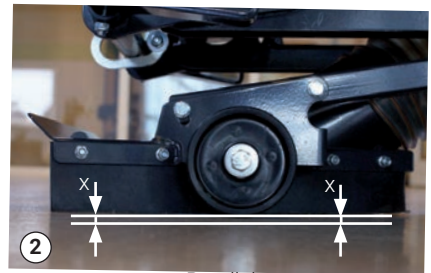
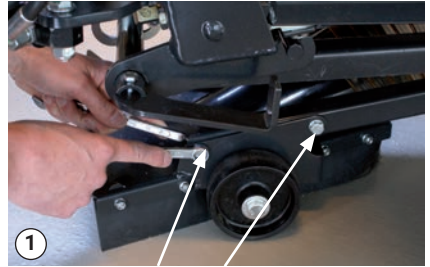
3.3 Adjusting the vacuum nozzle - continued -

When changing the brush or rubber profile on the vacuum nozzle, check the angle.

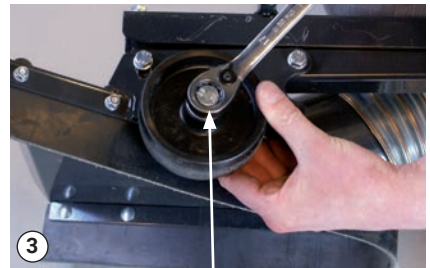
1. Place the brush flat on the ground.
2. Loosen the bolts, two on each side. (Picture 1)
3. Adjust the angle so that distance X is the same in front of and behind the wheel. (Picture 2)

If distance X exceeds 4 mm.

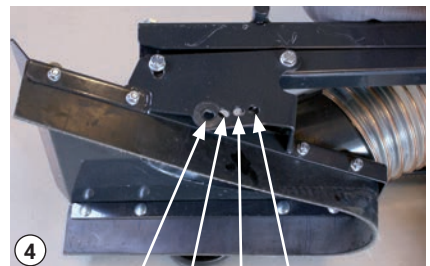
4. Remove the bolt. (Picture 3)
5. Move the wheel to the required position, typically one hole up, i.e. from pos. 1 to pos. 2, etc. (Picture 4)
6. Repeat on the opposite side. The wheels must be fitted in the same position on each side.
7. Adjust the angle so there is the same distance (X) in front and behind the wheel (Picture 2) and tighten the bolts on both sides. (Picture 1)



Parallel



Wheel bolt



Pos 1, Pos 2, Pos 3, Pos 4

Service and maintenance

3.4 Lubrication / storage

There are four lubricating nipples on the weed brush

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

Cylinder top. (Picture 1)

Cylinder bottom + carrier/driver. (Picture 2)

Guard fixture. (Picture 2)

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.

3.5 Replacing the brush

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

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



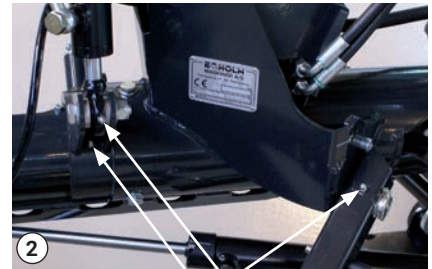
Warning!

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

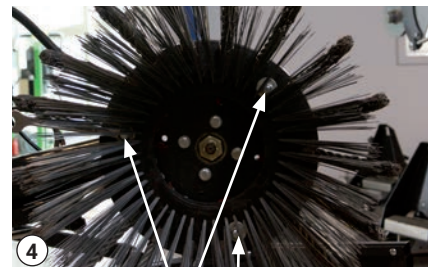
A new brush can be ordered from an authorised Egholm dealer.



Lubricating nipple



Lubricating nipples



Three nuts

Service and maintenance

3.6 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



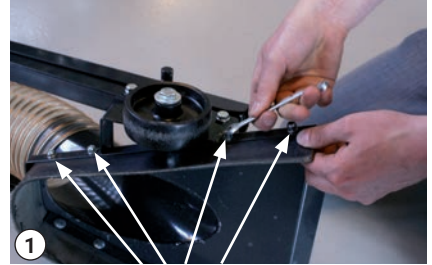
Remove nut

Service and maintenance

3.7 Replacing rubber profile on vacuum nozzle

When the wheels can no longer be adjusted, replace rubber profile.

1. Detach vacuum nozzle
2. Loosen nuts and remove rubber profile. (Picture 1)
3. Fit new rubber profile and tighten nuts. (Picture 2)
4. The wheels are moved to position 1. (See section 3.3 - Adjusting the vacuum nozzle)



Loosen four nuts on each side



Fit new rubber profile

3.8 Troubleshooting

The weed brush cannot be moved from side to side.

Check the switch F2 is in the correct position. (See Section 2.6)

Collecting

Ensure that the vacuum hose below the machine is not blocked. Check vacuum nozzle adjustment. (See section 3.3) See also the troubleshooting section in the suction sweeper operator's manual.

Conditions

**Honest
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Conditions

4.1 Warranty

The warranty period for the materials and manufacture of this weed brush 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 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.

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.

Wearing parts

**Honest
Machines**

5.1 Wearing parts - City Ranger 2260/2250 weed brush



E01103210 Strong brush



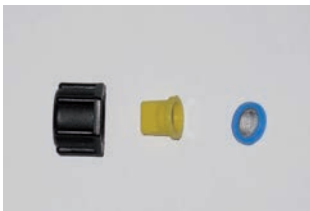
E01103060 Soft weed brush



E70501121 Guard service kit



E70501111 Vacuum nozzle service kit



E70501101 Nozzle kit

Notes

Honest Work.

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