



Operator's Instructions and spare parts list

NESBO Weed Brush

Model UK 425 / 475 / 725 R/L



* Copyright – NESBO A/S - Mariager 2014 - Unauthorised reprinting is strictly prohibited.





**Congratulations! You are now the proud owner of a Nesbo
Weed Brush!**

**Read the Operator's Instructions
before use!**

It can save you time and money.

To order spare parts:
REMEMBER always to inform us of the machine type, machine
number and spare part number.





Please complete all 3 coupons with the machine number, model and delivery date of your implement.

The top coupon follows the Operator's Instructions (for the purchaser).

The middle coupon is filed by the dealer.

Please send the coupon at the bottom to

**NESBO A/S
Daniavej 31
9550 Mariager**

not later than 1 month from the delivery date.

(If you fail to do so, the warranty will be null and void.)

-----Purchaser's coupon

Machine number:

Model:

Delivery date:

Purchaser:

Dealer:

-----cut here -----Dealer's coupon

Machine number:

Model:

Delivery date:

Purchaser:

Dealer:

-----cut here -----NESBO A/S' coupon

Machine number:

Model:

Delivery date:

Purchaser:

Dealer:





<u>Table of contents:</u>	Page:
General information	9
-Warning boxes	
Safety instructions	10
Introduction	11
-Machinery	
-Noise	
-Choice of tool carrier	
-Hitch	
-Hydraulic connections	
Attaching the implement	13
Basic settings	14
-Brush position	
-Spreading material	
-Protective guard	
Start	16
-Operation/use	
-Switch to working on the opposite side	
-Breakdown	
-Danger of fire	
Detaching the implement	18
Storage	19
Maintenance	20
-Tightening	
-Lubrication	
-Wearing parts replacement	
Marking/labelling	21
Customer services and claims	22
EC Declaration of Compliance	
Spare parts list	





General information

Please read the Operator's Instructions before attaching or using your new Nesbo hydraulic weed brush implement. If in doubt – ask your dealer for help.

Use only original Nesbo parts in your Nesbo machinery and implements.

This manual includes an illustrated spare parts list. Read the introduction to the spare parts list before ordering spare parts.

Warning boxes

The following warnings are used in this manual:

Warning

A technical procedure or similar, which may be associated with a risk of personal – or even fatal –injury.

Caution

A technical procedure or similar, which, in the event of negligence, may cause damage to the machine or accessories

NB

Refers to a very important technical procedure or similar.



Safety instructions

You should NEVER

- allow unauthorised persons to use the machine unattended.
- operate the machinery without the safety guards fitted by Nesbo A/S.
- allow anyone to stand close to the machine while it is in use.
- leave the driver's seat while the machine is in operation and the steel brushes are rotating.
- adjust the implement or its settings while the tractor motor is running.
- repair or maintain the implement while the tractor motor is running.

You should ALWAYS

- tighten nuts and bolts after 15 hours of operation. In particular, check that the steel brushes are secure.
- ensure that you are well-acquainted with the tool carrier.
- make sure that no-one is standing close to the machine while it is in use.
- disconnect the tractor's hydraulic system and stop the tractor before making adjustments, maintenance or repairs to the machine.
- make sure that you understand the machine's hydraulic functions and associated movements.



Introduction

Nesbo Weed Brush type UK 425 / 475 / 725 R/L is a hydraulically powered weed brush implement. Weed brush implements are an alternative to herbicide spraying. Using a mechanical brush, they can remove weeds from flagstones, paths and road sides. A weed brush implement can also be used to sweep weeds away from gravelled paths and tracks – without disturbing gravel and sand more than absolutely necessary.

Weed Brush UK 425 / 475 / 725 R/L is designed to fit on the front of a tool carrier with a standard front assembly, i.e. A-frame for 0, 1 or 2 linkage and two or three-point tractor hitch categories 0, 1 or 2. No special tools are required.

The power needed to drive the implement is supplied via the tool carrier's hydraulic connection(s).

Mechanical system on model UK 425 / 475 / 725 R/L

The implements are available in several variants, i.e. there is a choice of control mechanisms for the variable functions

Tool carrier equipped with 2 dual hydraulic connections.

In this variant, the weed brush is equipped as standard with 1 x reversing valve
 1 x hydraulic connection to extend the main beam
 2 x hydraulic connection to tilt the brush head, i.e. to switch between 2 hydraulic cylinders with an electric reversing valve, controlled via the electrical panel.



Tractor equipped with 1 dual hydraulic connection.

In this variant, the weed brush is equipped as standard with 1 x extra reversing valve = 2 x reversing valves in all.

All functions are powered by 1 hydraulic connection, which switches between the various functions using 2 reversing valves.

Tractor equipped with 3 dual hydraulic connections.

In this variant, all the hydraulic functions are controlled hydraulically, i.e. there are no reversing valves.

Noise level

The noise level to which the driver is exposed in the tractor cabin is 74-85 dB (A). These figures originate from data provided by most tractor manufacturers in their product specifications.

In any situation, in which the operator of a UK 425 / 475 / 725 R/L implement may feel that the noise level is unpleasant, Nesbo A/S recommends the use of ear defenders.

Choice of tool carrier

When choosing an tool carrier, you should make certain that the weed brush implement and tool carrier together are stable during operation.

Note that the centre of gravity of the tool carrier shifts when the weed brush is attached to it, especially when the brush head is extended. Take special care on slopes and inclines.

For your guidance, Nesbo A/S recommends that the tractor you use with UK - R/L meets the following:

	UK 725 R/L	UK 425 / 475 R/L
- min. net weight	1350 kg	850 kg
- min. wheel gauge	1000 mm	800 mm
- min. PTO voltage	15 kW (20,4 HK)	12 kW (16,5 HK)

Hitch

The tool carrier must be equipped with a three-point tractor hitch category 0, 1 or 2, or an A-frame category 0, 1 or 2. It may be possible to use another recognised hitch.

Hydraulic connections

The tractor must have an independent hydraulic connection to ensure that the weed brush rotation speed is independent of tractor propulsion.



Warning

Ensure that the tool carrier oil flow is correct (See label on the machine).

If the oil flow on the tool carrier is higher than the weed brush machine specifications, the machine may spread stones fiercely, representing a serious risk of personal injury or irreparable damage to the machine.

Attaching UK 425 / 475 / 725 R/L to the tool carrier

To attach UK 425 / 475 and UK 725 R/L to the tool carrier, drive the vehicle up to the weed brush implement in the basic position.

A-frame: If an A-frame link is used, the male frame on the tractor must be lowered as far as possible to ensure that there is some clearance between the male and female frames. Drive forward, raise the hitch and the frame locks in.

3-point tractor hitch: Drive the vehicle up to the weed brush implement. Stop the vehicle at right angles to the machine, so that the front hitch beams are aligned with the pins on the machine. Stop the tractor. Attach the implement manually.

Other frame/hitch types: Follow the manufacturer's instructions for the specific type of frame.

Warning

Manoeuvring the frame/hitch at the connection between the implement and carrier is potentially dangerous. If connecting the implement is difficult – find someone to help.

If the sides are not aligned, adjust the top rod so that the weed brush implement frame is vertical and the main beam can slide horizontally.



Attach the quick lock hoses to the tractor's operative hydraulic connections. Check that the connections are correctly locked.

Attach the quick lock hoses to the dual hydraulic connections on the front of the tractor.

CAUTION

Take care when positioning hydraulic hoses and electric cables. They can easily be damaged.

NB

Hydraulic hoses are supplied in standard lengths.

If they need to be shortened, this must be performed by the dealer.

Electric control unit

In addition to connecting the hydraulic hoses, you have to fit an electric control cable from the weed brush implement to the tractor cabin. Connect the electric control unit to the inside of the tractor.

BASIC SETTING

The weed brush is suspended freely from the hitch so that it is possible to move large volumes of material by pressing the steel brushes down onto the ground using height adjustment, regulated by means of the hitch functions.

Height adjustment also means that the implement can reach small indentations in asphalt surfaces, etc. to remove material/weeds.

Please note, however, that the machine can be overloaded. The warranty does not cover damage caused by overloading.

Please note

To set the working speed of the hydraulic cylinder which extends the beam and rotates the brush head, turn the throttle valves.



Brush position

Always take into account the conditions under which the steel brushes will be working. At curbs and on cobblestones it is often an advantage to tilt the brush plate in order to sweep more intensively. Less bristle contact means that there is more bristle pressure on the ground.

On firm gravel roads, large paved areas, etc. is often an advantage to use the full operating width of the brush plate. Greater brush pressure will normally be needed here to drag weeds up.



There are several different brush head settings, which determine different directions of spread.

Warning

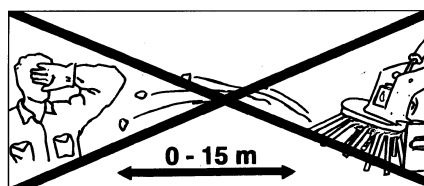
Never adjust the brush plate if there is anyone close to the weed brush implement.

People must remain at a safe distance of at least 3-4 m from the machine when the operator is seated in the tractor cabin.

Spreading material

By tilting the brush plate, you can adjust material spread in any direction you wish. The direction of rotation and tilt of the brush plate determine the direction of spread.

WARNING



Protective guard

To minimise the spread of material against the tool carrier and to the side, there is an adjustable rubber guard. As a rule, the rubber guard should be adjusted according to the brush plate position.

On flat ground, the rubber guard should be fully lowered, although there should be a little clearance.

On uneven ground, the rubber guard should be adjusted so that the gap between the ground and the guard is about 5-10 cm. Correct adjustment prevents unnecessary wear-and-tear on the guard as a result of contact with the uneven ground.

Warning

Switch off the tractor before adjusting the rubber guard. Failure to do so may result in serious personal injury

START

Once the basic settings are in place, UK 425 / 475 / 725 R/L is ready to start.

Start the tractor and leave it idling.

Engage the weed brush hydraulic control handle. With the tractor motor idling, check that the machine rotates freely and encounters no obstacles.

Increase RPM to the normal level and allow the machine to run for 1 minute. Note if there are abnormal vibrations or noises coming from the machine. If there are abnormal vibrations or noises, contact your dealer immediately.

To stop the weed brush implement, reduce tractor RPM to idling and put the hydraulic control handle into neutral.

NB

The weed brush is fitted with a specially designed Parker hydraulic motor, which has an integrated crossover valve to protect the machine if there is excess oil pressure or if the hydraulic control handle is disengaged when the brush head is rotating at high speed.

The machine is now ready to run.



Operation/use of UK 425 / 475 / 725 R/L

Before using the machine, the operator must ensure that he is well-acquainted with the machine's hydraulic functions.

The machine may only be used in the areas described in the introduction.

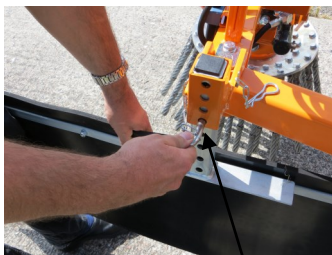
WARNING

Increasing the brush rotation speed above the values stated by the manufacturer presents a potential risk of personal injury as this can cause

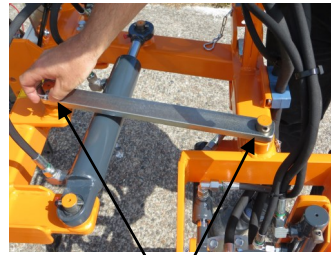
a harder and longer spread of material, e.g. stones, than stated above. No-one may stand within a radius of 15 metres from the weed brush.

Switch to working on the opposite side

To switch from working on the right to the left (or vice versa):



Remove the rubber guard cottar pin.
Remove the rubber guard.



Remove the 2 ring pins on the steering rod.
Remove the steering rod.



Swing the brush head to the opposite side



Refit the parts and the machine is ready to operate on the opposite side.

Vertical operation (UK 725 R/L only)

On UK 725 R/L the brush head can be tilted to sweep in the vertical position



Breakdown

In the event of a breakdown:

Reduce tractor RPM to idling, release the tractor's hydraulic handle and stop the tractor before leaving the cabin. If you cannot identify the cause of the breakdown, contact your dealer. You should contact your dealer if a breakdown occurs in hydraulic, electrical or mechanical functions.

To restart:

Check that the tractor's hydraulic handle is disengaged. Start the tractor and let it idle, while you check that the machine is in perfect working order.

FIRE RISK

If the weed brush is working in very dry conditions and on hard ground, sparks may occur.

There is therefore a serious risk that dry vegetation may ignite.

WARNING

In exposed areas with very dry vegetation where a fire would spread easily, the operator must ensure that the area is watered before using the weed brush.

DETACHING THE IMPLEMENT

To detach UK 425 / 475 /725 R/L from the tool carrier, perform the following in this order:

- Set the machine at its narrowest position.

- Make sure that brush plate is horizontal so that the bristles rest on a level surface.
- Stop the tractor with the weed brush implement raised off the ground.
- Attach the supporting legs to the fitting frame.
- Disconnect the hydraulic hoses from the tractor, slide on protective caps and lay the hoses across the main beam.
- If the machine has electrical equipment: Detach the cylinder switching control box and lay this across the main beam.
- Start the tractor and lower the weed brush implement onto the even surface.

A-frame:

Raise the lock pin on the female frame. Lower the frame until it is clear. Reverse the tractor away from the weed brush implement to detach.

3-point tractor hitch:

Lower the weed brush implement and stop the tractor.

Remove the pin from the top beam of the weed brush implement so that the top beam is attached only to the tractor.

Then remove the hitch beam rods.

Start the tractor and reverse away from the weed brush implement.

WARNING

Never manoeuvre the tractor hitch if there is a risk that someone can come into contact with the implement and tractor. There is a danger of serious personal injury in the form of crushing.

Storage

For best results, at the end of the season UK 425 / 475 / 725 R/L should be thoroughly cleaned and serviced before storing. Remove weed, soil, etc. from the steel brushes and guards.

To make sure your weed brush implement has the longest possible useful lifetime, follow the maintenance instructions.



MAINTENANCE

Tightening

Nuts and bolts.

All nuts and bolts must be tightened after the initial 5 hours and then at intervals of 15 operating hours.

LUBRICATION

After 50 operating hours:

Lubricate with grease: the pivot joint on main beam and cylinder eyes.

WARNING

Handling grease and oil can be hazardous to your health.
Follow the safety instructions on the grease or oil packaging.

Replacing wearing parts

Steel brushes:

To replace worn steel brushes:

- Stop the tractor!
- Raise the implement's brush plate from the ground!
- Using standard tools, loosen and remove the bolts from the tufts on the brush plate and replace the worn steel bristles.
- Tighten the bolts securely in the tufts on the brush plate so that they do not come loose during operation.

Rubber guard:

A worn rubber guard should be replaced.

Remember!

Check that all guards are replaced correctly after they have been detached.



MARKING/LABELLING

- The machine must carry the following signs/marks. These are mandatory and must be clearly visible. New marks/signs are available from the manufacturer. Contact your dealer to order.

Warning sign on the weed brush:

- A warning sign to warn against any contact with the steel brushes – either when rotating or at a standstill.
- Also a sign to warn people not to stand within a 15 m radius of the machine when it is operating.



Number plate:

- The machine is fitted with a riveted type plate/number plate. The number engraved on this plate is unique to the individual machine. This means that the manufacturer can trace the machine at any time.

The number plate also states the weight of the machine (kg).

CE mark/manufacturer's address:

The type plate carries the CE mark and also states the production year, manufacturer's website and telephone number.



Other labels:

The machine also carries the manufacturer's own labels, logo, etc.

Customer services and claims

Customer services

-
As the dealer sells the machine to the customer, it is the dealer's responsibility to supply (and possibly attach) and commission the machine on delivery or when it is used for the first time, and to provide adequate instruction to the operator regarding the use and maintenance of the machine (including tightening nuts and bolts) and to provide the operator with the services he needs in the initial period.

The dealer is also obliged to make sure that the Operating Instructions and spare parts list is delivered to the customer and that the claims coupon is completed correctly and signed by the customer before it is sent to Nesbo A/S no later than 1 month from the date of delivery.

Claims

We offer a warranty, under the terms of which the purchaser has the right to lodge a claim. The warranty period is 12 months from the delivery date and covers compensation in the event of material and production faults. Any parts that may have suffered damage as a result of material and production faults will be replaced by Nesbo A/S at no charge. Consequential damage and wearing parts will not be replaced.

Any components used on the relevant machine which are not directly produced by us are included under the terms of the warranty to the extent that the supplier (manufacturer) is prepared to authorise their replacement. Nesbo A/S reserves the right to assign a claim of this kind to the relevant supplier and not to reach a decision until the relevant supplier has responded. The supplier's response will be decisive for approval or rejection of the claim.

Any work performed in connection with a claim **must** be reported to us in advance and must be performed within a period agreed with us and performed by qualified technicians. Wage costs (if any) will only be approved at a fixed net price.

Any invoice received for repair work, which was not authorised in advance, will not be approved for payment.

When a claim has been lodged, Nesbo A/S will send a claims report, which must be filled out correctly and sent to us no later than 8 days from the date, on which repair work is completed.

At Nesbo A/S' request, before the claim can be handled, any parts replaced must be sent carriage paid to the manufacturer.



Any work performed in connection with a claim **must** be reported to us in advance and must be performed within a period agreed with us and performed by qualified technicians. Wage costs (if any) will only be approved at a fixed net price.

Any invoice received for repair work, which was not authorised in advance, will not be approved for payment.

When a claim has been lodged, Nesbo A/S will send a claims report, which must be filled out correctly and sent to us no later than 8 days from the date, on which repair work is completed.

At Nesbo A/S' request, before the claim can be handled, any parts replaced must be sent carriage paid to the manufacturer.

Nesbo A/S

