

Manual and parts list

ONION MOWER Front UM 150 / 180 / 200 / 210 / 240



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Please complete the information below immediately after receiving the Holaras machine. This information may be important in case of malfunctions and when ordering spare parts in the future.

Machine number :

Type designation :

Date commissioned : - -

(Copy the above data from the rating plate on your machine)

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Please note that the information in this manual is subject to change at any time without notice. Please also note that this manual may contain technical inaccuracies and typographical errors. Hoopman Machines B.V. makes every effort to prevent errors in this manual, but cannot guarantee it. If you find typographical errors or technical inaccuracies or if you have any suggestions, please let us know.

Illustrations and technical data are entirely without obligation. Interim changes are reserved at all times without prior notice. The manufacturer cannot be held responsible for defects caused by incorrect use of the machine.

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1 EC DECLARATION

Machine : Onion haulm mower
Brand : Holaras
Type : UM 150(-F) / UM 180(-F) / UM200(-F) / UM 210(-F) / UM240(-F)

EN - Declaration of conformity

We, Hoopman Machines B.V., Dinxperlosestraatweg 145, NL-7122 JP Aalten, the Netherlands, hereby declare that the machine referred to herein, to which this declaration relates, is in conformity with the standards and normative documents, in accordance with the provisions of EC Directives 98/37/EC and 2006/42/EC (and amendments as last amended), under our exclusive responsibility.

D - Declaration of conformity

Wir, Hoopman Machines B.V., Dinxperlosestraatweg 145, NL-7122 JP Aalten, Niederlande, erklären hiermit, dass die bezeichnete Maschine aufgrund ihrer Konzipierung und Bauart sowie in der von uns in Verkehr gebrachten Ausführung den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der EG-Maschinenrichtlinie 98/37/EG und 2006/42/EG entsprichtungen.

GB - Declaration of Conformity

We, Hoopman Machines B.V., Dinxperlosestraatweg 145, NL-7122 JP Aalten, The Netherlands, declare on our exclusive responsibility that the machine described, to which this declaration refers, conforms to the norms and normative documents as defined in the provisions of 98/37/EC and 2006/42/EC.

F - Déclaration de conformité

Nous, Hoopman Machines B.V., Dinxperlosestraatweg 145, NL-7122 JP Aalten, Pays Bas, déclarons que l'outil sous-mentionné, qui fait l'machine de la déclaration, se trouve, sous notre responsabilité exclusive, en conformité avec les normes et documents normatifs conformément aux dispositons des directives 98/37/CE et 2006/42/CE.

DK - Voting record

Vi, Hoopman Machines B.V., Dinxperlosestraatweg 145, NL-7122 JP Aalten, Holland, erklærer, at det her anførte maskine, som erklæringen referer til, ene og alene står under vores ansvar i overensstemmelse med standarderne og de normgivende dokumenter, svarende til bestemmelserne i henhold til 98/37/EG, 2006/42/EG.

I - Dichiarazione di Conformità

Hoopman Machines B.V., Dinxperlosestraatweg 145, NL-7122 JP Aalten, Olanda, con la presente dichiariamo che macchina sotto elencati, ai quali si riferisce la presente dichiarazione, sono conformi alle normative e alle documentazioni normative come da direttive n 98/37/EC, 2006/42/EC, e di questo ci assumiamo la piena responsbilità

Aalten, _____(date)

_____(signature)

_____(name)

2 SAFETY

2.1 General safety regulations

1. Read the manual carefully before working with the machine.
2. Keep guards and the like in place / do not remove them.
3. Always check the machine before use.
4. Keep unauthorised persons away from the machine. They should be kept at a safe distance from the machine.
5. The machine must never be overloaded. The capacity of the machine is greatest when it is loaded correctly.
6. Use the machine only for those jobs for which it was made.
7. Always keep the machine in optimal condition. Proper maintenance of the machine is necessary to keep it operating reliably and safely. Adhere to the instructions for cleaning and maintenance.
8. Make sure the machine is disconnected from the mains before carrying out any maintenance work on the machine.
9. Check for damaged or worn parts. If there are, replace or repair them immediately.
10. Never leave the running machine unattended.
11. Alcohol, medication or drugs. The machine must never be operated when you are under the influence of these substances.
12. Make sure the machine is de-energised before carrying out any work on the electrical equipment, motors and the like.
13. The machine must not be used if protective covers or other safety devices have been removed. If protective covers have been removed during transport or repair, reattach them properly before (re)commissioning the machine.
14. **WARNING:** The warnings, safety rules and instructions in this manual cannot cover all possible circumstances and situations. The user should understand that common sense and caution are factors that cannot be built into this product, but must be completed by the user.

2.2 Specific safety regulations

1. Do not operate the onion haulm mower until the machine is fully attached.
2. If any part of the machine (e.g. a control element, a safety switch or a cable) is faulty, missing or not functioning properly, switch off the machine immediately and repair or replace this part.
3. Never enter the machine with body parts when it is in use.
4. Beware of sharp or protruding parts.

Warning!!!

Stay alert even as you become familiar with the machine. Remember that a moment of inattention can lead to serious injury.

3 USER MANUAL

3.1 Description of the machine

The onion haulm mower is intended exclusively for cutting off the foliage of crops and e.g. weeds between them. These crops should be on beds. The onion haulm mower cuts the haulm and transports it to the right where it is deposited in a swath (see Fig. 1). It is also possible to dismount the swath board so that the haulm is "blown" across the land (see Fig. 2).



3.2 Description of the process

An onion haulm mower is used for folding haulm from crops grown on beds. These crops are then lifted (usually with a stock harvester), and placed in a windrow to dry. After drying, the crop is picked up with a loading machine and removed.

A good harvest starts with good harvesting. Pay attention to the right blowing height to preserve the harvested crop.

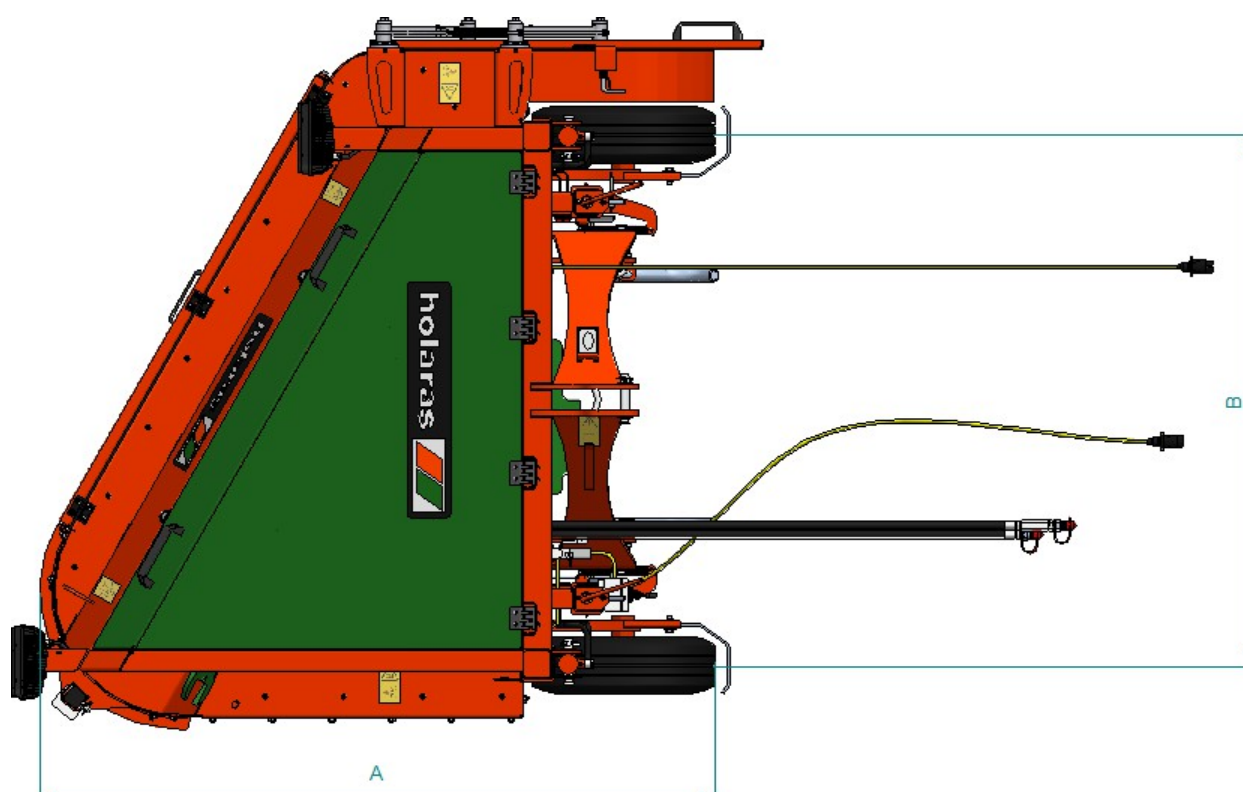
Before you put the mower into the crop, the mower should have enough rpm so that it has good suction and delivers better flapping work.

3.3 Technical specifications

The technical specifications UM Front 150 / 180 / 200 / 210 / 240

	UM 150	UM 180	UM 200	UM 210	UM 240
Attachment	Front	Front	Front	Front	Front
Working width (cm)	150	180	180	210	240
Weight (kg)	1000	1070	1090	1165	1290
Length (cm) ^A	190	200	200	290	240
Variable height	125-165 cm	125-165 cm	125-165 cm	125-165 cm	125-165 cm
Wheels	2x 6.00x9	2x 6.00x9	2x 6.00x9	4x 6.00x9	2x 6.00x9
Track width (cm) ^B	150	175	200	215	215
PTO shaft	1000 rpm	1000 rpm	1000 rpm	1000 rpm	1000 rpm
Drive drums	V-belt	V-belt	V-belt	V-belt	V-belt

All specifications subject to change. Technical changes reserved.



4 HITCHING AND ADJUSTING

4.1 Attaching the machine

To work optimally with the onion haulm mower, the tractor will first of all have to be suitable for this purpose. What is needed is a tractor with a good three-point linkage.

The tractor must also be equipped with a SINGLE-acting hydraulic valve with RETOUR, or a double-acting valve (geared), a power take-off (1000 rpm), an electric power supply (12 volts, directly from the battery) to operate the electric height controls and an electric power supply for lighting (optional).

Before hitching, check the machine for any damage or defects and repair them.

4.2 Commissioning

- Coupling the machine to the tractor.
- Connect hydraulic hoses to the correct valve on the tractor. Make sure that the correct hose is connected to the correct quick coupling. There is a non-return valve in the return hose, so the oil can only flow in one direction.
- Connect PTO intermediate shaft to the tractor.
- Insert plug(s) into the appropriate mating plug(s). When the control box plug is connected, the LED on that box lights **green**.
- Lift the machine off the ground with the lifting device. Then fix the support leg in the highest position (if fitted).

If the LED on the control box lights up red, the + and - of the plug must be swapped. Do not operate the joystick then either!

If the LED is not lit then there is no power supply.

CAUTION: When **replacing** the original plug

Brown : Ground (no.
31) Blue : 12 Volt +

4.3 Adjusting cutting height

It is forbidden to rotate the machine's blades during adjustment.

When adjusting the cutting height, ensure that the machine is level in the direction of travel (i.e. not forward or backward). This can be adjusted with the top bar of the three-point linkage.

Adjust cutting height see Fig. 4:

- The cutting height is best adjusted in the field.
- Place the mower on the bed to be mown (linkage in floating position), engage the hydraulic valve and lock it (arrested) also put the joystick on the electric control box in the height control position.
- The machine will adjust so that the front edge of adjustment plate 7 is between the two electric eyes.
- This applies to both left and right.
- Loosen spindle 1 a few revolutions.
- Turn spindle 2 upwards if required
- (Cutting height lower), or downwards
- (Cutting height higher) until the desired position is reached.
- Tighten spindle 1 again.

The cutting height on the other side can be adjusted in the same way.

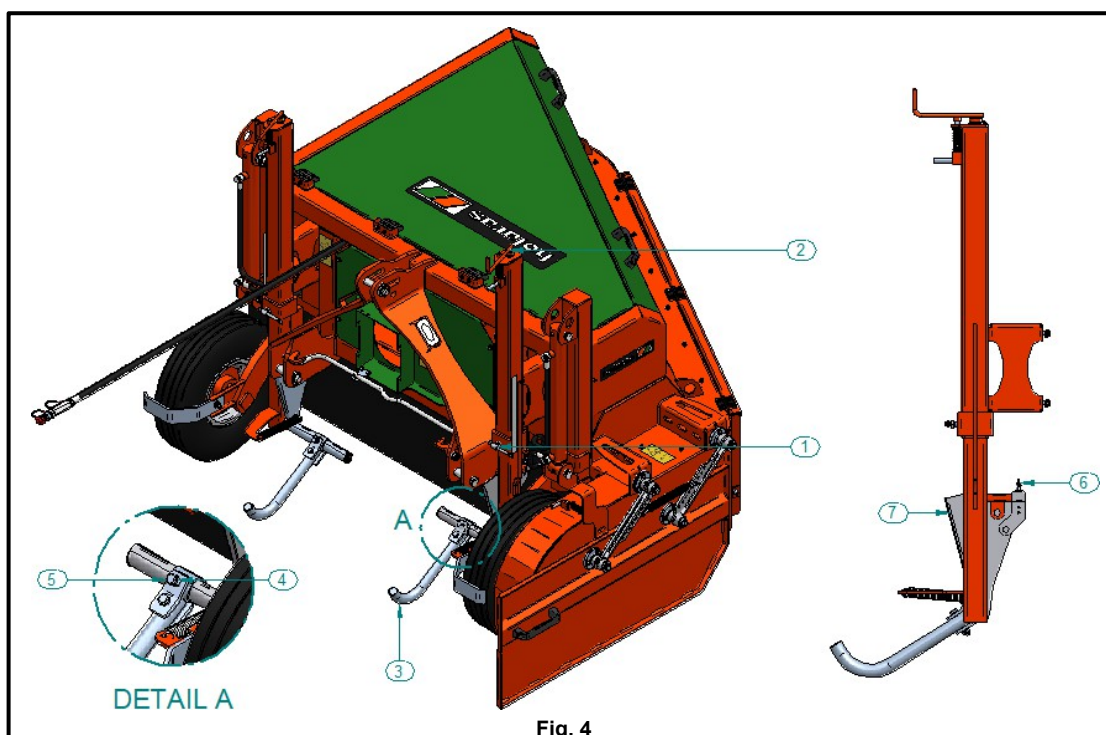
To change the reaction speed somewhat, it is possible to slide the front electric eye 6 forwards or backwards.

It is recommended not to make the distance between the front and rear eye too small. Drag foot 3 is

adjustable in the width direction:

- Loosen counter nut 4 a few revolutions.
- Loosen locking bolt 5 a few revolutions.
- Slide drag foot 3 to the desired position.
- Tighten locking bolt 5 again.
- Tighten counter nut 4 again.

The drag foot on the other side can be adjusted in the same way.



4.4 Haulm removal

The foliage can be disposed of in two ways n.v.:

With guide plate (see Fig. 5).

Without guide plate (see Fig. 6).

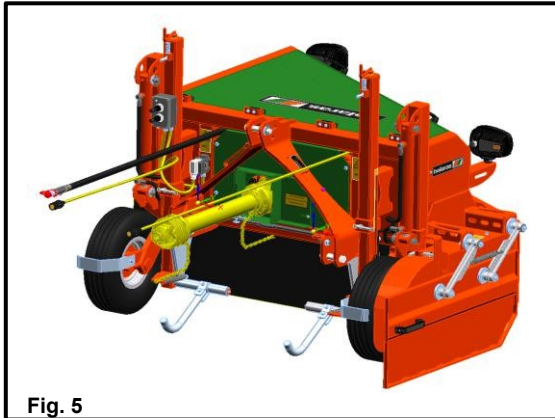


Fig. 5

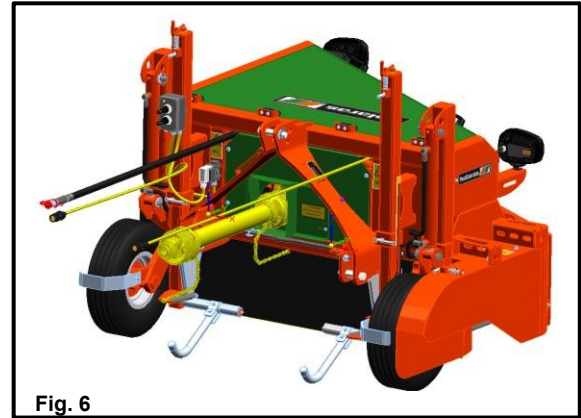


Fig. 6

In Fig. 5, the haulm is removed to the rear and placed in a swath on the right side.

By removing the plate, see Fig. 6, the haulm is removed to the right and "blown" across the field.

It is forbidden to rotate the blades of the machine during assembly and disassembly of the guide plate.

It is also possible to dismantle the rubber "crescents" 1 under the machine (see Fig. 7). This leaves some of the foliage under the machine and pulverises it.

N.B. This does reduce the suction effect of the machine.

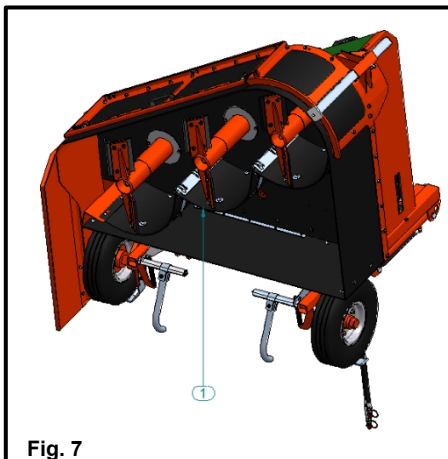


Fig. 7

Make sure the machine is properly supported while dismantling the "crescents". This is due to entrapment under the machine.

Beware!!! Also take measures against injuring yourself on the sharp blades.

5 OPERATION

5.1 Control panel

The control panel consists of the following control functions (see Fig. 8).

- **Up:** the wheels slide all the way out.
- **Centre position:** the wheels remain in the last position.
- **Automatic:** automatic height control activated.

In addition, the cutting height can be adjusted manually using the lower lever switch.



Fig. 8

6 START UP THE MACHINE

It is forbidden to start up the machine if there are persons near the machine!

- Place the onion haulm mower on the bed to be mown (linkage in float position).
- Engage and tighten (braced) the hydraulic valve.
- Move the joystick on the control panel to the height control position.
- Engage PTO (1000 rpm) at idle engine speed.
- Bring the PTO speed to about 540 rpm.

The transmission ratio of the mower's drive system assumes that the mower is used in combination with a harvester (mowing at the front of the tractor (1000 rpm), harvesting at the back of the tractor (540 rpm)). The driveline of all types of mowers is the same.

As harvesting is usually done at a relatively low speed, the mower achieves the required speed even at this low speed.

6.1 Load-sensing

For tractors equipped with load-sensing hydraulics, it is recommended to turn back the volume control (throttling) on the tractor's valve block as far as possible (machine must, of course, continue to operate sufficiently fast).

This minimises energy loss (and thus fuel consumption). Determine the minimum amount of litres/min by trial and error.

6.2 Leaf claps

Once the mower has started, the haulm can be folded. After a few metres of folding, check that the cutting height and width position of the trailing feet are correctly adjusted and, if necessary, adjust them as described in section 4.3. The towing feet should drag exactly between two rows.

Before the mower can be lifted out at the headland, the joystick must be put in the middle position (the wheels remain in the last position). If this is not done, the wheels will slide all the way in when the mower is lifted out, and when you then move the machine to the next bed, the first onions will be pulverised by the mower blades.

After the mower is placed on the bed after turning, the joystick should be moved to the "height control" position.

The guided board is bottom-following, the "sensitivity" can be adjusted by adjusting the chain attached to the spring (see Fig. 9).



Fig. 9

7 STOPPING THE MACHINE

- Move the joystick to the centre position.
- Reduce the engine speed to idle.
- Switch off the power take-off.
- After the blades **stop rotating**, lift the machine out of the bed.

7.1 Cleaning the machine

Although the machine is completely rubber coated inside to prevent haulm "caking", in some cases it may still be necessary to clean the machine from time to time. In this case, do so regularly to avoid additional wear and damage.

Cleaning machine

- **Stop machine (see section 4.4)!**
- Joystick in position up.
- Loosen lock 1 in front of machine (see Fig. 10).
- Open cap 2.

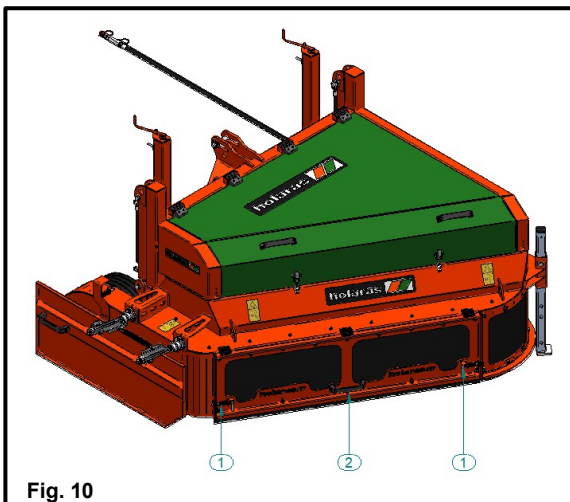


Fig. 10

It is forbidden to be under the machine during cleaning!

8 MAINTENANCE

8.1 Machine maintenance

Caution!!! Never leave the machine running during maintenance or inspection.

After ± 8 running hours, after commissioning the machine, check and retighten all bolts, nuts and couplings.

Regularly check the blades for sharpness and/or breakage and replace them if necessary.

Beware!!! Even worn-out knives can still contain sharp parts

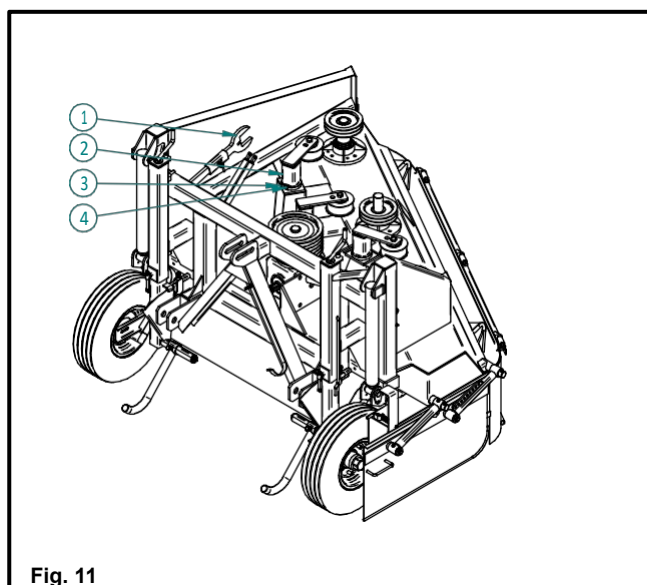
Important!!!

- Do not continue to use damaged or worn blades. This may affect the balance of the machine and cause additional wear or damage.
- Always use new bolts and nuts when mounting the blade blades.

Check the tension of the V-belts regularly and tension them if necessary.

8.2 Tensioning V-belts

- See (Fig. 11).
- Loosen bolt 3 under the tensioner a few turns.
- Unscrew bolt 4 from its holder and stop tensioner 2 with spanner 1.
- Turn tensioner 2 against spring force until the V-belt is tensioned and bolt 4 fits into another threaded hole.
- Tighten bolt 4 in that other threaded hole.
- Tighten bolt 3 again.

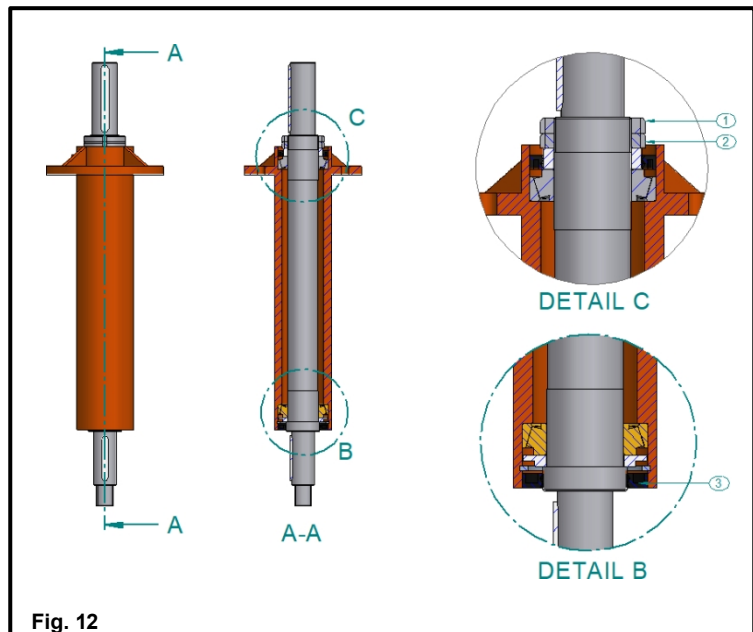


8.3 Threaded bearings bearing housing blade drums

Regularly check the play on the tapered roller bearings at the top of the blade drum bearing housings and adjust if necessary (see Fig. 12).

8.4 Adjusting tapered roller bearings

- Loosen counter nut 1 a few turns.
- Tighten adjusting nut 2 until the play is eliminated.
- Tighten locknut 1.
- Rotate the drum a few times (be careful of the sharp blades) and check for backlash.
- If, yes: repeat the previous steps.



8.5 Filling bearing housing

If the bearings in the bearing housing have been replaced, for whatever reason, care should be taken when filling them that retaining ring 3 (see Fig. 12) is fitted only **after** filling.

This is due to air accumulation in the housing, preventing the grease from reaching the lower bearing. The bearing housings should be filled with **EP-0** grease.

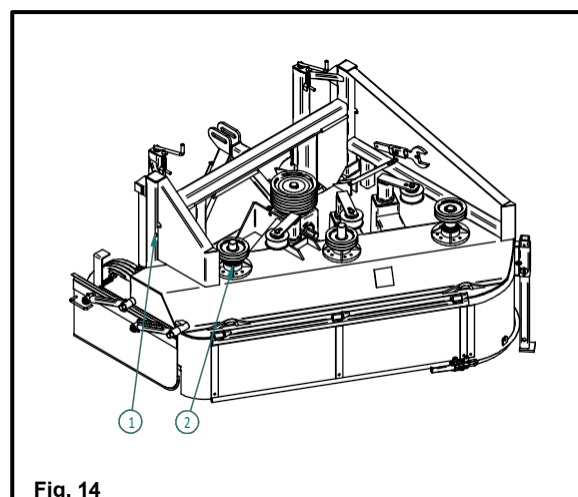
9 LUBRICATION AND OIL CHANGE

9.1 Lubrication

- The machine should be lubricated every eight hours of operation. All points to be lubricated are indicated with a sticker (Fig. 13).
- The clutch shafts (PTO) should be lubricated according to the manufacturer's prescription.
- Change oil gearbox every 300 hours or once a year with 4.3 litres of 75W90 oil.



The guide of the support wheels (lubrication point 1) and the bearing housings of the knife drums (lubrication point 2) should be lubricated every 2 hours in continuous use (see Fig. 14).



10 PROBLEMS AND SOLUTIONS

Problem	Possible cause	Resolve
Height control does not work	<ol style="list-style-type: none"> 1. Supply voltage missing (cable break), LED on control box not lit 2. + and - supply voltage reversed, LED on control box lights up red* 3. Fuse in control box has blown 4. Oil flow wrong way round 5. Volume control turned all the way down 6. Advance valve does not work 	<ol style="list-style-type: none"> 1. Connecting supply voltage Fix cable breakage 2. swap + and - 3. Replacing a fuse 4. Operate hydraulic valve the other way round or connect hoses the other way round 5. Turn black dial** on volume control slightly upwards 6. Contact supplier or manufacturer
Height control not working properly	<ol style="list-style-type: none"> 1. Electric eye malfunction*** 2. Electric eyes do not pierce the metal far enough (reacting on their own) 3. Hydraulic valve on mower not working properly 	<ol style="list-style-type: none"> 1. Replace 2. Making eyes protrude further through the metal 3. Contact supplier or manufacturer
Knives often worn out	<ol style="list-style-type: none"> 1. Caking of foliage and sand 	<ol style="list-style-type: none"> 1. Cleaning machine more frequently

This table serves only as an aid for troubleshooting the machine. If problems cannot be solved safely by yourself, seek help from qualified personnel.

* When the LED on the control panel lights red, the joystick must not be operated, due to burnout of the diodes.

** The black dial only needs to be opened a few revolutions.

*** On the back of the electric eye is an LED that lights up as soon as the eye switches, if it does not light up then the eye is faulty or there is a cable break in the eye's cabling.

11 ORDER

You can always order spare parts for your machine. All parts can be found in the parts book, which is supplied with your machine together with this manual. It is important that you always state the year, type and serial number of your machine when ordering.

12 PICTOGRAMS EXPLANATION



Before commissioning, read the manual



Danger from rotating parts



Do not reach under the saw flap until the guard is fitted



Never reach or step into the bin while the machine is running



During operation, stay out of reach of the saw flap



Working on the machine, only allowed when cylinder safety is in place



When the machine is working, do not remove the protection



Do not open guard while machine is running



Stay out of the clamping area when the part moves



Only touch machine parts when they are completely stationary.



Lubrification point

13 MEMO[illegible]