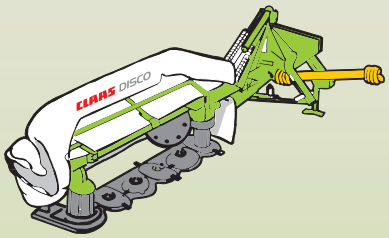
CLAAS



DISCO 3450 PLUS
DISCO 3050 / 3050 PLUS
DISCO 3050 C PLUS
DISCO 2650 / 2650 PLUS
DISCO 2650 C PLUS

Operator's manual

SERVICE & PARTS

Before leaving the tractor, ensure that the machine cannot roll away! Lower any mounted implements fully to the ground! Switch off the engine and remove the ignition key.

Never let anyone stand between the tractor and the machine without having the vehicle secured against rolling away by putting on the parking brake and/or through the use of wheel chocks!

ATTACHED MACHINES

Before attaching the machines to or detaching the machines from the 3-point linkage, move the control lever to a position in which unintentional raising or lowering is not possible!

When attaching mounted machines to the 3-point linkage, the linkage categories of tractor and machine must correspond or the necessary modifications must be performed!

A risk of injury due to crushing or shearing exists in the vicinity of the 3-point linkage!

Do not stand between tractor and machine when operating the remote control unit for the 3-point linkage!

Always ensure that there is adequate sideways locking of the tractor three point rod wen the machine is in the transport position!

During road transport with the machine raised, the control lever must be locked to prevent unintentional lowering of the machine!

MACHINES AS TRAILORS

Secure the machine to prevent it from rolling away!

Observe maximum permissible load capacity of couplings and swinging drawbar or hitch facility!

When hitching the machine at the drawbar, ensure that there is sufficient movement at the hitch point!

PTO OPERATION

Only use universal drive shafts specified by the manufacturer!

Always ensure that the guards for the universal drive shaft and PTO stub shaft are installed and in a good condition! Ensure that the guards properly cover the universal drive shafts, both, in the transport and in the working position!

Always disengage the PTO shaft, stop the engine and remove the main switch key before attaching or detaching the universal drive shaft!

When universal drive shafts with overload or freewheeling clutches are used which are not protected by the tractor's guard, the overload or freewheeling clutches have to be installed next to the machine.

An overload or free running coupling is to be attached on the device side when using universal drive shafts with overload or free running couplings which are not covered by the protective equipment on the tractor!

Always ensure that the universal drive shaft is correctly installed and securely fastened!

Secure universal drive shaft gear against rotating by hanging in the chains.

Before engaging the PTO shaft, ensure that the selected speed and the direction of rotation of the tractor's PTO shaft matches the permissible speed and the direction of rotation of the drive assembly of the machine!

Always ensure that no-one is in the danger zone of the machine before switching on the p.t.o. shaft!

Never engage the PTO shaft while the engine is stopped!

When operating the PTO shaft no-one must ever stand in the vicinity of the rotating PTO stub shaft or universal drive shaft!

Always disengage the PTO shaft when the turn angle is extreme or when the PTO drive shaft is not used!

Danger: rotating masses run on after the PTO has been disengaged! Do not step too close to the machine during this time! You are only allowed to work on the machine when everything has stopped moving.

Cleaning, lubricating or adjustment of the p.t.o. shaft driven machine or universal drive shaft is only permitted with a switched off p.t.o. shaft, switched off engine and the ignition key removed!

Whenever the universal drive shaft is not connected to the tractor it must be kept on the storage yoke or suspended with a chain!

After uncoupling the universal drive shaft the protective guard must be pushed on to the PTO stub shaft!

In case of damage, the defective parts must immediately be repaired before working with the machine!

HYDRAULIC SYSTEM

The hydraulic system is under high pressure!

When attaching hydraulic cylinders and motors, take note if the prescribed connection of the hydraulic hoses!

When connecting the hydraulic hoses to the tractor hydraulics it is important to ensure that the hydraulics are depressurised both on the tractor side and the machine side!

$$G_{Vmin} = \frac{G_H \times (c + d) - T_V \times b + 0{,}2 \times T_L \times b}{a + b}$$

Calculation of minimum ballasting at the front

Consideration of rear mounted implement and front/ rear combinations.

Note!

Record the calculated minimum ballasting which is needed at the front of the tractor into the table.

(Fig. 1)

$$G_{Hmin} = \frac{G_V \times a - T_H \times b + 0{,}45 \times T_L \times b}{b + c + d}$$

Calculation of minimum ballasting at the rear

Front mounted implement.

Note!

Record the calculated minimum ballasting which is needed at the rear of the tractor into the table.

(Fig. 1)

$$T_{Vtat} = \frac{G_V \times (a + b) + T_V \times b - G_H \times (c \times d)}{b}$$

Calculation of the real front axle load

If with the front mounted implement (G_V) the required minimum front ballasting (G_{Vmin}) cannot be reached, the weight of the front mounted implement has to be increased to the weight of the minimum ballasting at the front.

Note!

Record the calculated real front axle load and the permissible front axle load of the tractor into the table.

(Fig. 1)

$$G_{tat} = G_V + T_L + G_H$$

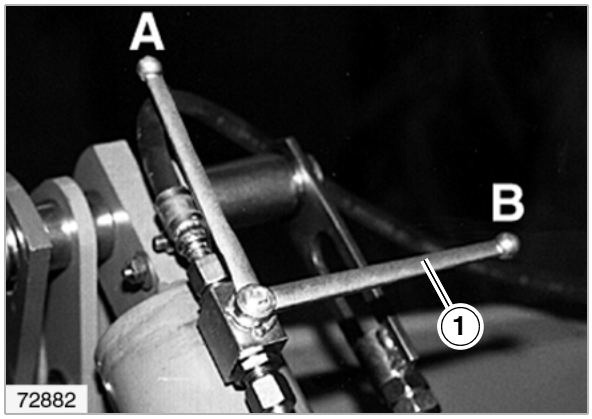
Calculation of the real total weight

If with the rear mounted implement (G_H) the required minimum rear ballasting (G_{Hmin}) cannot be reached, the weight of the rear mounted implements has to be increased to at least the weight of the minimum ballasting at the rear.

Note!

Record the calculated real and the permissible total weight given in the instruction handbook for the tractor into the table.

(Fig. 1)



17

Stop cock:

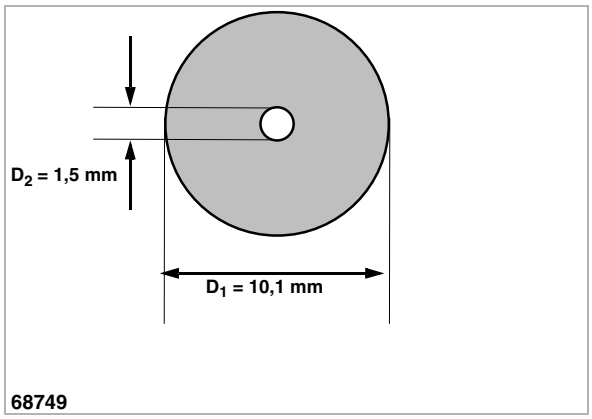
During operation, when lifting out and lowering the cutter bar, the stop cock (1) must be open.

Position (A): Stop cock open.
Position (B): Stop cock closed.

Danger!

The stopcock must always be closed for driving on public roads and before uncoupling the hydraulic hose.

(Fig. 17)

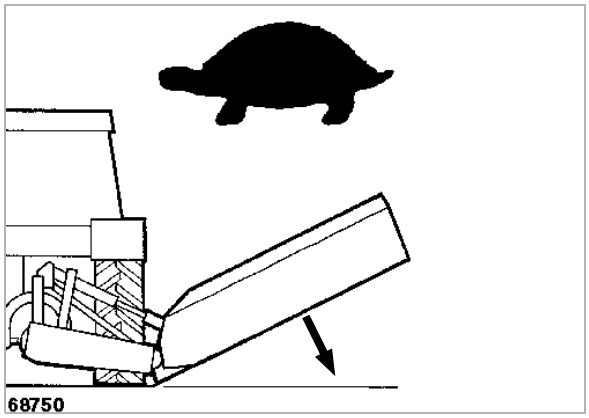


18

Note!

A screen is included with the mower units.
CLAAS No. 570 647.1

(Fig. 18)



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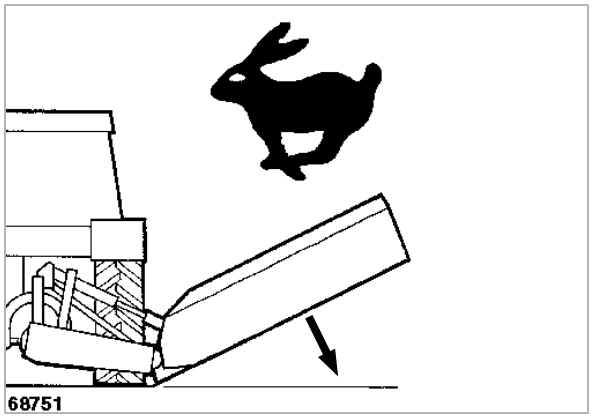
DISCO 2650 C / 2650 C PLUS /
DISCO 3050 C / 3050 C PLUS /
DISCO 3450 / 3450 PLUS

The lowering speed reduces after replacing the screen fitted as standard (D2 = 1,8 mm).

(Fig. 19)

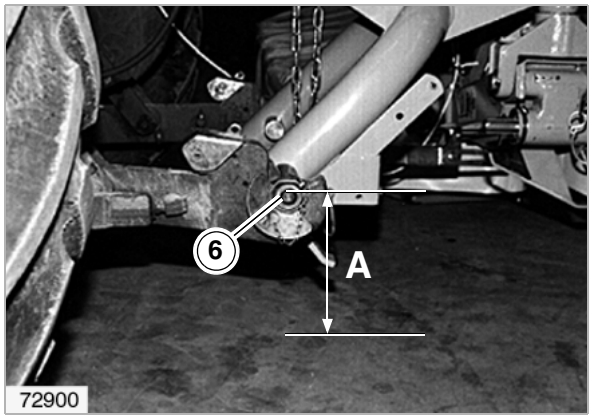


20

DISCO 2650 / 2650 PLUS /
DISCO 3050 / 3050 PLUS

The lowering speed increases after replacing the screen fitted as standard (D2 = 1,1 mm).

(Fig. 20)



6

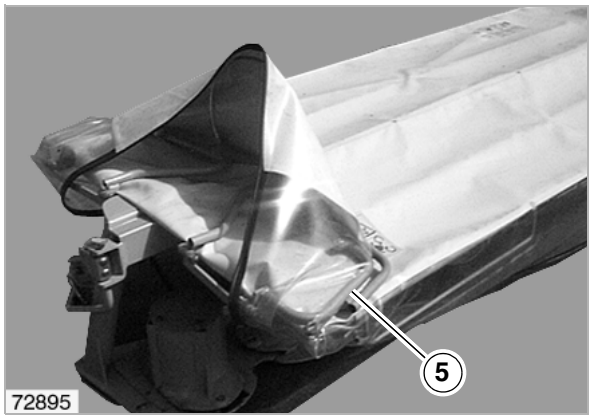
The dimension A between the ground and hitch pin (6) in this setting is about 500 - 550 mm.

(Fig. 6)

Three-point hydraulics to be blocked in this position.

Note!

At the headland, the mower unit should not be lifted with the three-point hydraulics but should only be lifted laterally with the hydraulic cylinder until the lifting limiter is reached. This maintains the setting (Fig. 5).



7

Safety equipment

DISCO 3450:

- After the mower unit has been swung into the working position, swing the safety frame with safety guard (5) downwards on the right hand side.

(Fig. 7)

Danger!

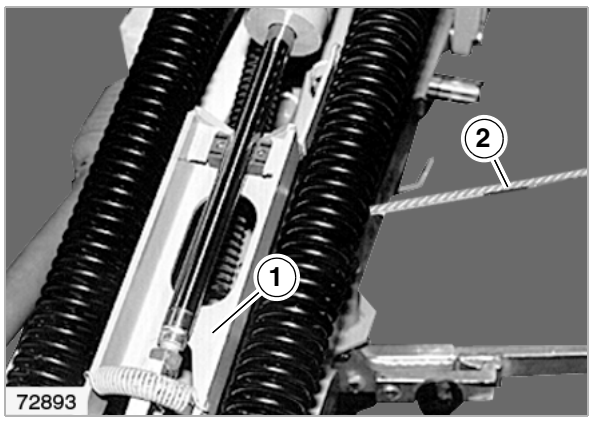
During operation, the mower unit must always be equipped with the protective canvas. All safety frames must be folded down. Never lean on the safety canvas or tread on it.

Replace damaged or worn protective canvas immediately!

Transport position

Attention!

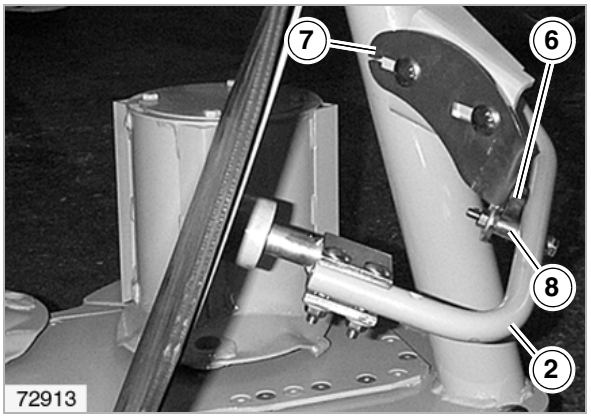
Machine only to be swung into the transport position when the PTO is switched off and when the conditioner drum is at a standstill.



8

- Swing the mower unit upwards to the stop using the hydraulic cylinder.
- Unlock the upward stroke limiter (1) by pulling on the pull rope (2). Keep the pull rope tight during the whole process.

(Fig. 8)



34

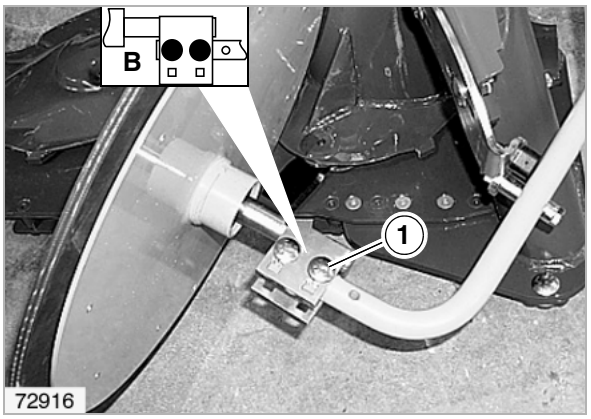
This dimension is achieved by appropriate setting of the stop buffer (6).

The bracket (7) must be displaced in the slotted holes to give the setting.

The spacer bushing (8) supports the swath arm (2).

Place the spacer bushing (8) right up to the swath arm (2).

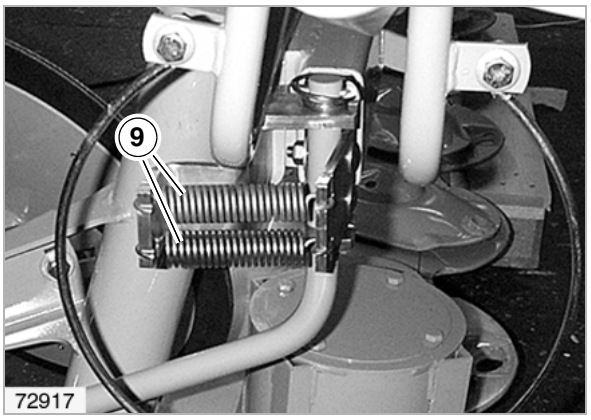
(Fig. 34)



35

If the clearance of 20 - 25 mm cannot be achieved reposition the swath disc axle (1) to position (B).

(Fig. 35)

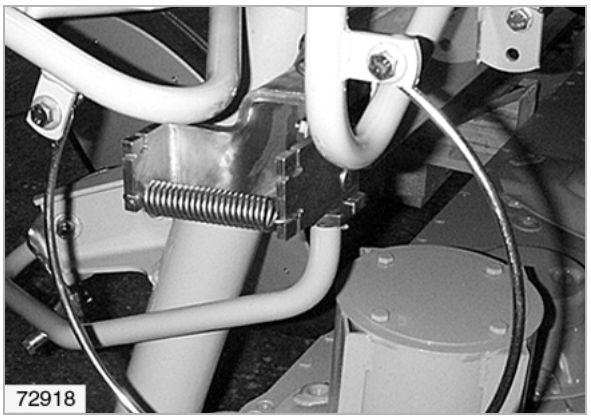


36

Tension springs:

Basic setting = fitting two tension springs (9).

(Fig. 36)



37

If necessary, one tension spring can be removed.

This causes the swath disc to swing out earlier.

(Fig. 37)

The lubrication intervals specified only apply to normal working conditions. If machine is used in difficult operating conditions, lubricate more frequently.

Environment!

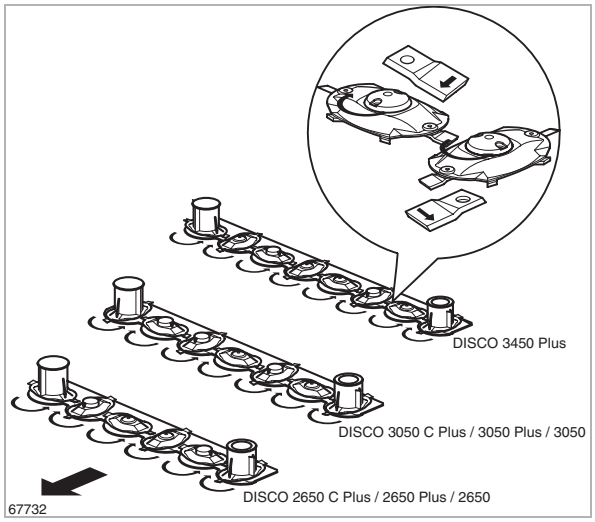
Discard used oil and grease according to regulations.

Protective Devices (Safety frame)

Hinged guards may only be opened after having switched off the drive mechanism and stopped the tractor engine.

Re- install all protective devices which have been removed for performing repair and service work.

Check the protective curtains regularly and renew them if damaged or worn.



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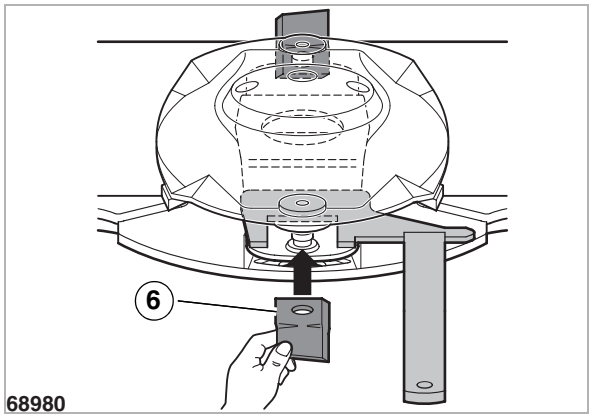

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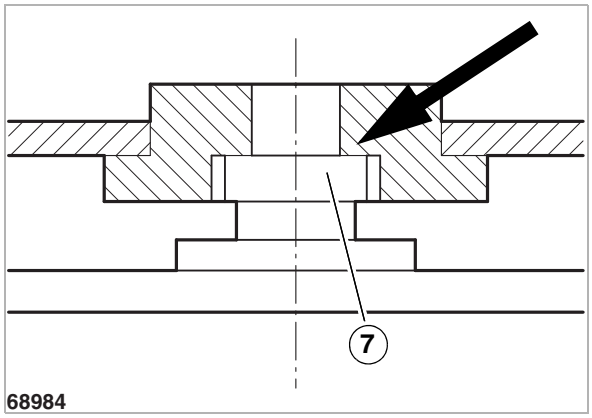


26

- Fit the new knife sections (6) with the cutting edge facing downwards.

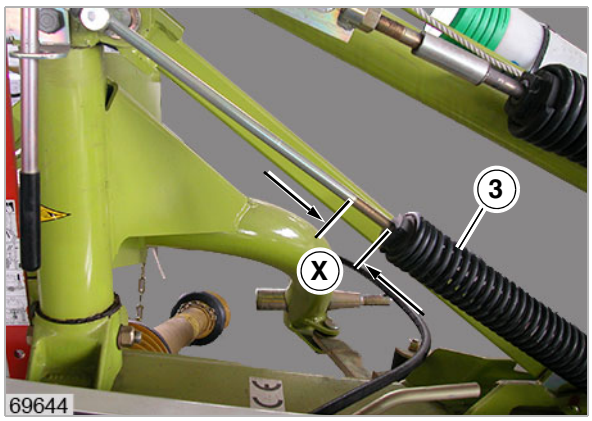
The direction of rotation of each disc is marked by an arrow on the blade.

(Fig. 24, 25)

Danger!

Always make sure that the knife sections and retainer pins are correctly seated! The knife section retaining pin (7) must be in contact (see arrow) and must sit straight in the locating hole of the disc.

(Fig. 26)

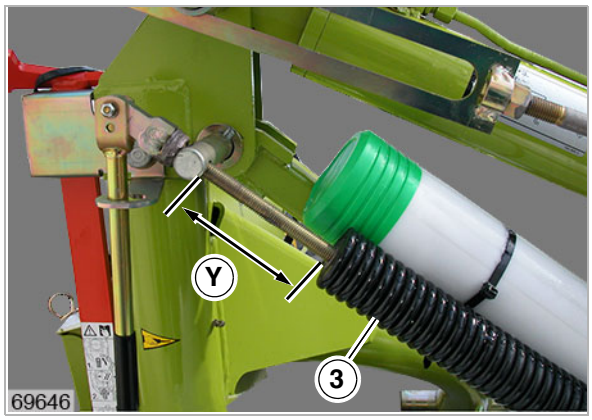


53

DISCO 3050 / 2650:

X = 50 mm of free thread length

(Fig. 53)

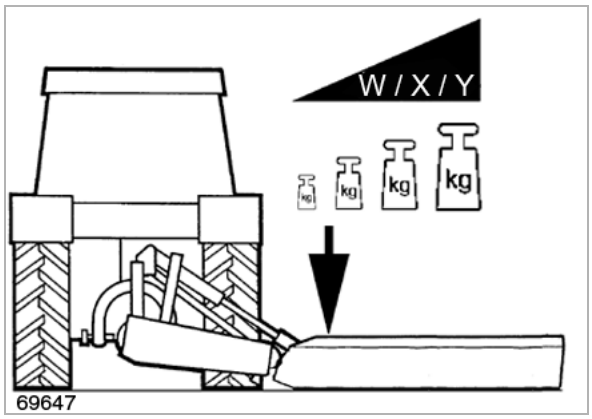


54

DISCO 3050 C / 2650 C:

Y = 120 mm of free thread length

(Fig. 54)



55

Note: **The greater the dimension W, X or Y, the greater the ground pressure of the inner section of the mower head.**

(Fig. 55)

Note!

Check the adapting to ground contours after setting. If required, correct the setting of the suspension springs.