

Operator's manual

Translation of the original Operating Manual

Nr. **99+3906.EN.80Z.0**

Chassis Nr.

Disc mower

NOVADISC 732

(Type 3906 : + .. 00001)

NOVADISC 812

(Type 3907 : + .. 00001)

NOVADISC 902

(Type 3908 : + .. 00001)

Pöttinger - Trust creates Affinity - since 1871

"Quality pays for itself." Therefore we apply the highest quality standards to our products which are constantly monitored by our in-house quality management and our management board. Because the safety, perfect function, highest quality and absolute reliability of our machines in operation are the core competencies for which we stand.

There may be deviations between these instructions and the product as we are constantly developing our products. Therefore no claims may be derived from the data, illustrations and descriptions. Please contact your Specialist Service Centre for any binding information about specific features of your machine.

We would ask you to please understand that changes to the scope of supply with regard to form, equipment and technical specifications are possible at any time.

Any form of reprint, translation or reproduction, including excerpts, requires the written approval of Pöttinger Landtechnik GmbH.

All rights according to copyright laws remain expressly reserved by Pöttinger Landtechnik GmbH.

© Pöttinger Landtechnik GmbH – 31st October 2012

Product liability, information obligation

Product liability obliges manufacturers and dealers to issue operating instructions for the machine at the point of sale and to instruct the customer on the operation, safety and maintenance regulations governing the machine.

Confirmation is required to prove that the machine and the operating instructions have been properly handed over. For this purpose you have received a confirmation e-mail from Pöttinger. If you have not received this mail, please contact your local dealer. Your dealer can fill in the handover declaration online.

For the purposes of product liability law, every farmer is an entrepreneur.

In the terms of product liability law, damage to property is any damage arising due to the machine, but not to the machine, and an excess (500 euros) exists for this liability.

Corporate damage to property within the terms of the product liability law is excluded from this liability.

Be advised! The operating instructions must also be handed over with any subsequent machine sale or transfer and the transferee must be instructed in the regulations stated.

Refer to PÖTPRO for additional information about your machine:

Are you looking for suitable accessories for your machine? No problem! All the information you require is here at your disposal. Scan the QR code on the machine's type plate or look under www.poettinger.at/poetpro

And if we don't have what your looking for, then your Specialist Service Centre is there for you with help and advice.



PÖTTINGER Landtechnik GmbH
Industriegelände 1
4710 Grieskirchen, Austria
Tel. 07248 / 600 -0
Telefax 07248 / 600-2511

According to the product liability please check the above mentioned items.

Please place a cross where appropriate.



- ☐ Machine checked according to delivery note. All attached parts removed. All safety equipment, drive shaft and operating devices at hand.
- ☐ Operation, commissioning and maintenance of the machine or device discussed and explained to the customer on the basis of the operating instructions.
- ☐ Check tyres for correct air pressure.
- ☐ Check wheel nuts for tight fit.
- ☐ Correct PTO shaft speed indicated.
- ☐ Adaptation to the tractor carried out: Three point adjustment
- ☐ Cardan shaft correctly cut to length.
- ☐ Test run carried out and no defects detected.
- ☐ Function explanation during test run.
- ☐ Swivel in transport and working position explained.
- ☐ Information about optional equipment is given.
- ☐ Indication of unconditional reading of the operating instructions.

Confirmation is required to prove that the machine and the operating instructions have been properly handed over. For this purpose you have received a confirmation e-mail from Pöttinger. If you have not received this mail, please contact your local dealer. Your dealer can fill in the handover declaration online.

Table of contents

Introduction	5	Installing cutter blades	37
SYMBOLS USED		Wear control cutting blades bracket.....	38
CE mark.....	6	MAINTENANCE	
Safety hints:	6	Holder for the rapid change of mowing blades	39
WARNING SIGNS		Mowing blades suspension checks	39
Position and meaning of warning signs	7	Changing the cutting blades (from year of construction 2004).....	39
Danger area around the machine	11	Storing of the lever.....	40
HITCHING IMPLEMENT TO TRACTOR		INDIVIDUAL LIFT CAPABILITY	
Safety advice	12	Mowing with only one mowing unit	41
Attaching machine to tractor	12	TECHNICAL DATA	
Dismantle parking supports	14	Technical data.....	43
Retract the support stand	14	The designated use of the mower unit.....	43
General tips	15	Type plate position	43
PARKING THE MACHINE		SUPPLEMENT	
Park the machine in working position	16	SAFETY ADVICE	
Park the device in transport position (optional).....	17	Lubrication chart	50
Parking in the open	18	Lubricants	52
General safety information.....	19	TAPER BUSHES	
Transport position	19	Taper bushes installation instructions.....	55
Starting situation.....	19	Combination of tractor and mounted implement.....	56
Changing to transport position.....	19		
WORKING POSITION			
General safety information.....	21		
Working position	21		
Starting situation.....	21		
Change to working position	21		
OPERATION			
General guidelines on working with the machine ...	23		
Mowing	23		
Turning when mowing	24		
Reversing.....	24		
Collision Avoidance.....	24		
FITTING OPTIONAL EQUIPMENT			
Safety advice	25		
1. Wear and high cut skids.....	25		
2. Swath former	26		
3. Additional swath former	26		
4. Protective apron.....	28		
5. Conveying cones (optional)	28		
Safety advice	29		
Starting work.....	29		
Turning when mowing	30		
OPERATION			
Working on slopes	31		
GENERAL MAINTENANCE			
Safety advice	32		
General maintenance information.....	32		
Cleaning of machine parts.....	32		
Parking in the open	32		
Winter storage.....	32		
Articulated shafts	33		
Hydraulic unit	33		
General safety information.....	34		
Oil level control of the mower bars.....	34		
Cutter bar oil change	35		
Oil change main gear.....	35		
Oil level check, angular gear.....	36		
V-belt drive.....	36		
Setting relief springs	36		



Attention!

**Observe Safety
Points in Supplement!**

Introduction

Dear Customer

These Operating Instructions are intended to allow you to familiarise yourself with the implement and provide you with clear information on safe and correct handling, care and maintenance. Thus please take the time to read these Instructions.

These Operating Instructions comprise part of the implement. They are to be kept at a suitable location and accessible to staff over the entire service life of the implement. Instructions based on the national provisions regarding protection against accidents, road traffic and environmental protection are also to be applied additionally.

Any persons commissioned with the operation, maintenance or transport of the implement must read and understand these Instructions, in particular the safety information, prior to starting work. Any warranty claims lapse on non-observance of these Instructions.

In case you have questions related to this operation manual or further questions about this implement, please contact your dealer.

Care and maintenance performed in good time and scrupulously according to the maintenance intervals specified ensure operational and traffic safety as well as the reliability of the implement.

Use only the original spare parts and accessories from Pöttinger or accepted by Pöttinger. For those parts reliability, safety and suitability for Pöttinger machines can be assured. Warranty claims lapse if non-approved parts are used. The use of original parts is also recommended after the warranty period has expired to maintain the performance of the implement in the long term.

Product liability legislation obliges the manufacturer and the authorised dealer to issue Instructions when selling implements and to instruct customers in the use with reference to the safety, operating and maintenance regulations. Confirmation in the form of a declaration of transfer is required to verify that the implement and Instructions have been transferred correctly. The declaration of transfer was attached to the implement on delivery.

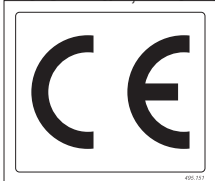
Every self-employed person and farmer is an entrepreneur within the meaning of the product liability legislation. In accordance with the laws of product liability, entrepreneurial property damages are excluded from the liability. All damage to property within the meaning of the product liability legislation is regarded as damage caused by the implement but not to the implement.

These Operating Instructions are integral part of the implement delivery scope. You should therefore hand them over to the new owner if ownership of the implement is transferred. Train and instruct the new owner in the regulations stated.

The Pöttinger Service-Team wishes you good luck.

CE mark

The CE mark, which is affixed by the manufacturer, indicates outwardly that this machine conforms to the engineering guideline regulations and the other relevant EU guidelines.



EU Declaration of Conformity (see Attachment)

By signing the EU Declaration of Conformity, the manufacturer declares that the machine that is brought into service complies with all relevant fundamental safety and health requirements.

Safety hints:

These Operating Instructions contain the following Figures:

DANGER

If you do not follow the instructions in a text section with this marking, there is a risk of fatal or life-threatening injury.

- All instructions in such text sections must be followed!

WARNING

If you do not observe the instructions marked this way, there is the risk of a severe injury.

- All instructions in such text sections must be followed!

CAUTION

If you do not observe the instructions marked this way, there is the risk of an injury.

- All instructions in such text sections must be followed!

NOTE

If you do not observe the instructions marked this way, there is the risk of material damage.

- All instructions in such text sections must be followed!

TIP

The text sections marked in this way provide you with special recommendations and advise regarding the economical use of the implement.

ENVIRONMENT

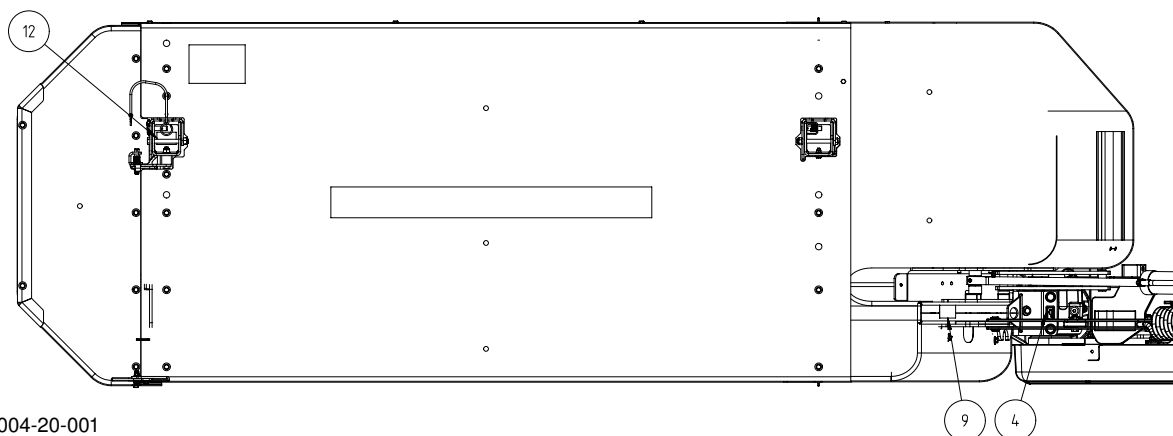
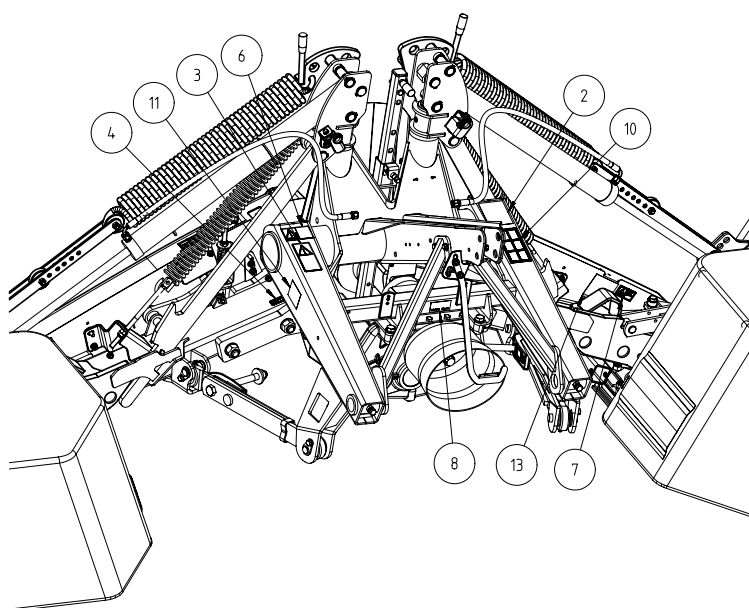
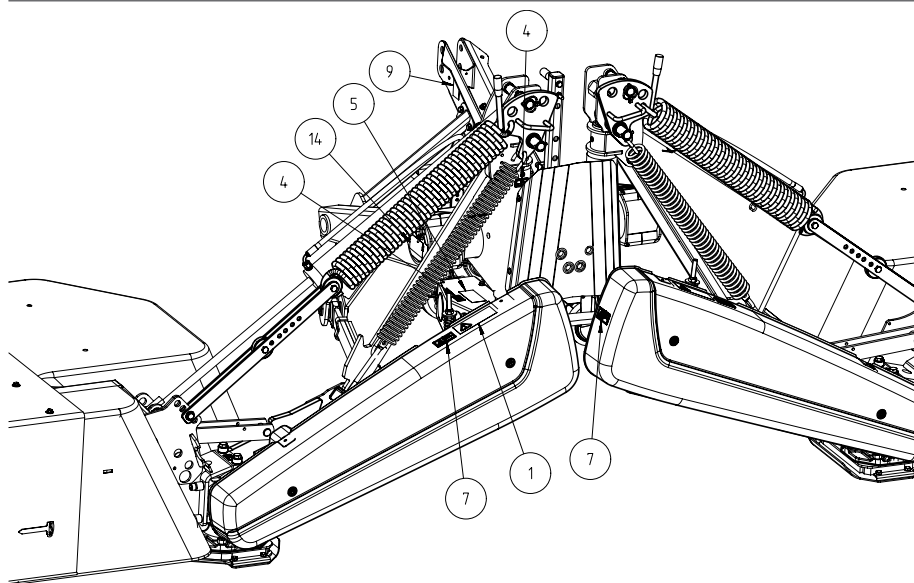
The text sections marked in this way provide practices and advice on environmental protection.

The features marked as (optional) are only available as standard with specific implement versions or are only offered for specific versions as optional equipment or are only offered in certain countries.

Figures may deviate from your implement in detail and are to be taken as illustrations of operating principle.

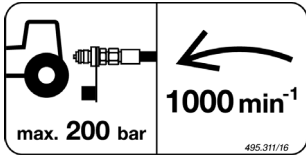
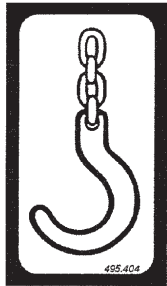
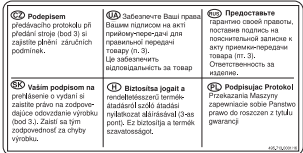
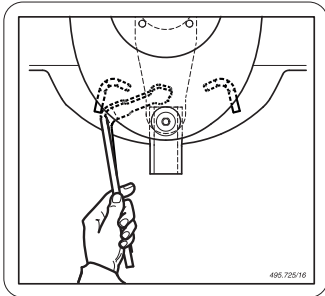
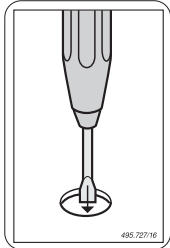
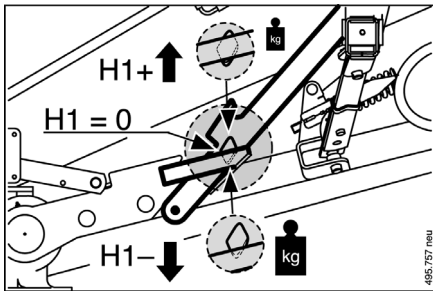
Designations such as right and left always apply as the direction of travel unless the text or illustrations clearly show otherwise.

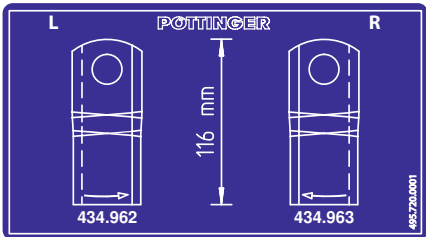
Position and meaning of warning signs



004-20-001

#	Meaning	Illustration
1 (2x)	Check belt tension: 494,355	
2	Keep a distance from the rotating rotors. 494,388	
3	Read the operating instructions before commissioning the machine! 494.529	
4 (10x)	Lubrication point - grease 495,646	
5 (2x)	Wait until all the mower discs have come to a standstill before entering the danger area. 495,158	
6	Shut down the tractor and remove the ignition key before carrying out any maintenance work. 495,165	
7 (5x)	Risk of crushing! 495.171	

#	Meaning	Illustration
8	•Speed: 1000 rpm 495,311	
9 (3x)	Ring bolt position 495.404	
10	Product liability 495.713	
11	Blade changing 495.725	
12 (2x)	Open protective apron 495,727	
13	Mounting height 495,757	

#	Meaning	Illustration
14	Blade equipment	 <p>The illustration shows a rectangular warning sign with a blue background and white text and symbols. At the top, the word "POTTINGER" is written in a bold, sans-serif font. Below the text, there are two diagrams of a blade. The left diagram is labeled "L" and the right diagram is labeled "R". Both diagrams show a blade with a circular hole at the top and a rectangular cutout at the bottom. A vertical dimension line with arrows at both ends indicates a height of "116 mm". Below the left diagram is the number "434.962" and below the right diagram is the number "434.963". In the bottom right corner of the sign, there is a small vertical text "435 720 0001".</p>

Danger area around the machine

! DANGER

Life-threatening danger exists through swivelling and folding cutter bars

- Do not stand in the swivel range of the cutter bars.
- Before raising or lowering the cutter bars, make sure that the working area is free and that no one is in the danger zone.


bsb 449 567

The danger area around the machine is marked in grey and must not be entered. The machine operator must always keep the danger area within view. People located in the danger area must be instructed to leave.

- Immediately before driving away with the tractor/wagon combination, the driver must check once again that nobody is in the danger area.
- The danger area may only be accessed for the purpose of maintenance/adjustment work and to carry out emergency work and only after the tractor drive has been stopped and the tractor and machine have been secured against rolling.
- People may only stay longer in the area provided for maintenance / adjustment work and emergency operation.


004-20-003

Safety advice

! DANGER

Life-threatening danger through operating a machine that is unroadworthy or damaged

- Check the vehicle for roadworthiness prior to every operation (lights, brakes, protective panels ...)!

! DANGER

Life-threatening danger through implement operation with self-driven machines. The field of vision during a transport run is restricted when a NOVACAT A10 is attached.

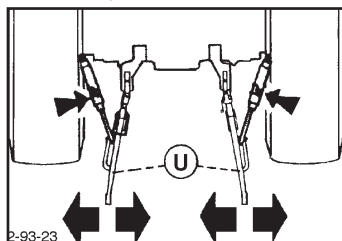
- Operate the machine only with tractors whose field of vision remains unaffected by the unit during transport.

For further safety instructions see Supplement A1, pt. 7), 8a. - 8h.)

Attaching machine to tractor

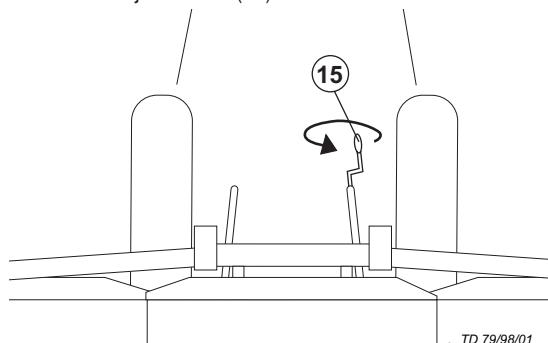
Attach mower centrically to tractor

- Adjust lower link accordingly.
- Secure the lower link so that the machine cannot swing out sideways.



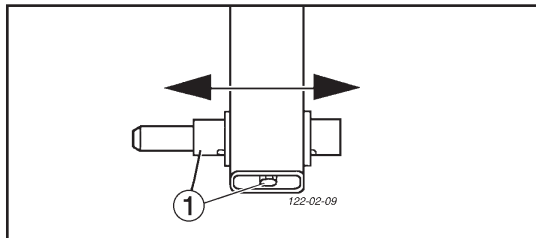
Setting the lower linkage of the lifting mechanism horizontal

- Bring mounting frame to horizontal position by adjusting lower link jackscrew (15).



Pin machine to three-point attaching frame

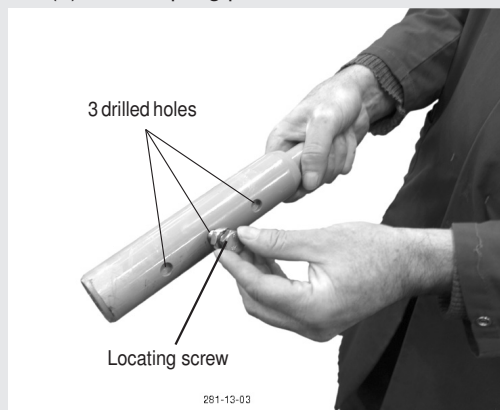
- Adjust the lower link bolts (1) on the bearing frame using the locating screw, according to the three-point category and the track width. The mower must not touch the rear tractor tyres.



! NOTE

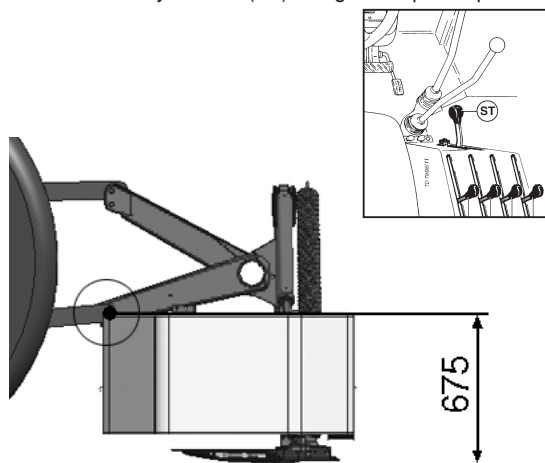
Risk of damage to property due to an implement coming loose from the tractor. If the screw is only fixed in the bracket and does not reach the hole in the bolt, the lateral movement of the bolt is still possible and the mower can come loose from the coupling.

- Check the tight connection between screw (1) and coupling pin.



Setting lower link height

- Set tractor hydraulics (ST) using the depth stop.

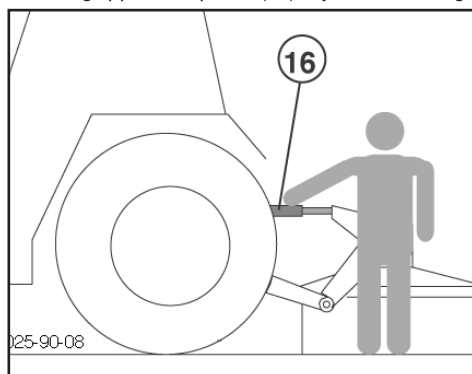


004-20-007

- The distance between the lower link bolts and bottom should be of about 675 mm.

Adjust upper linkage spindle

- The mower is positioned horizontal or slightly forwards by turning the upper linkage spindle (16).
- Turning upper link spindle (16) adjusts the cutting height.



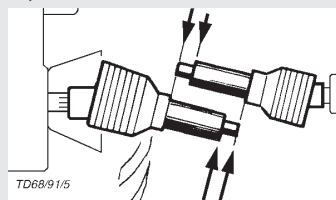
025-90-08

Attach the cardan shaft

NOTE

Risk of damage to the device and/or to the cardan shaft.

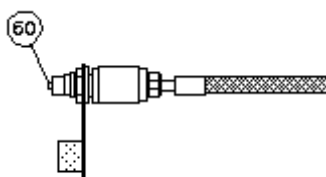
- Adjust the length of the cardan shaft to the tractor if necessary. (See Annex "Cardan shaft")



Correct adjustment, installation and maintenance of the cardan shaft is the requirement for a long service life.

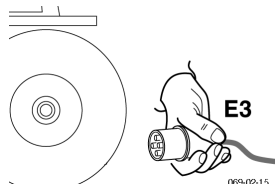
The details for this are described in the section 'Cardan shaft' and it is imperative to adhere to them.

Connect hydraulic plug-in connector (60)



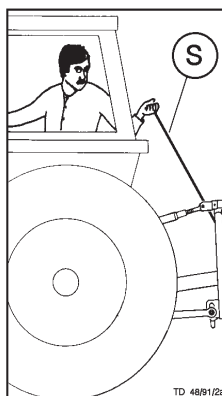
Establish power supply

- Connect the supply cable to tractor (E3).



069-02-15

Position flap release rope (S) in the tractor cabin.



TD 48/91/2a

Dismantle parking supports

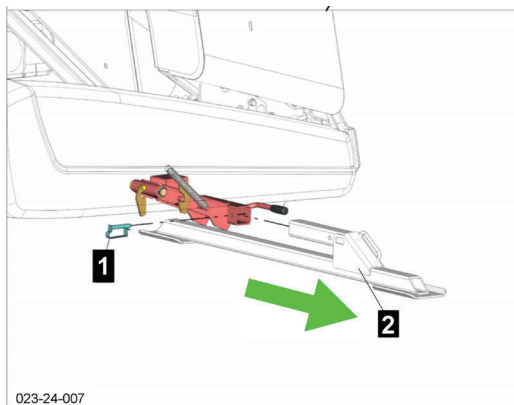
When the device is parked in the transport position, the parking supports on both mower units must be removed.

Raise mower unit

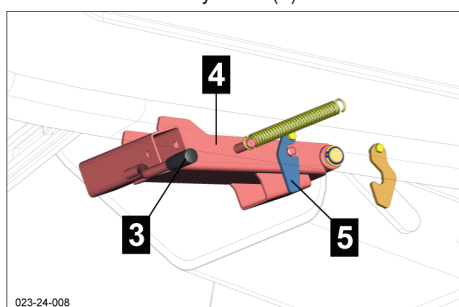
1. Raise mower unit with rear power lift.
2. Apply tractor brake and park. Remove the ignition key from the tractor before leaving the tractor cab.

Dismantle parking supports

1. Remove the linchpin (1) and dismantle the parking support (2)



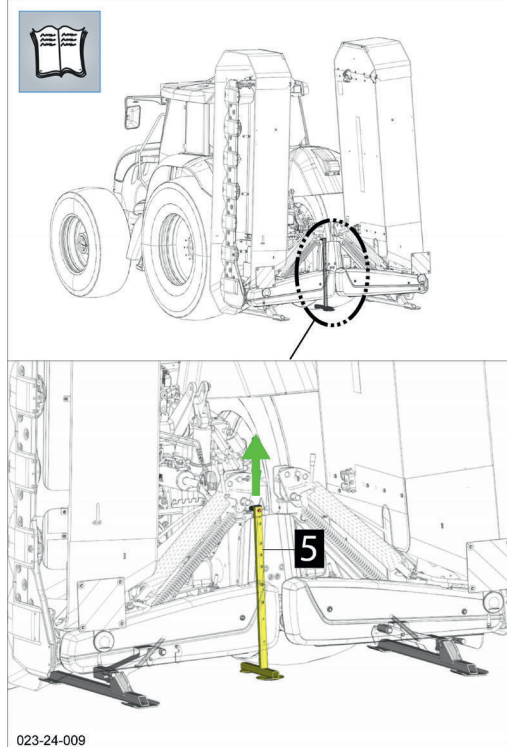
2. Insert linchpin (1) in parking support
3. Move parking support bracket (4) to park position
Take the parking support bracket by the handle (3) and turn it inwards. After the movement, the handle (3) is below the holder for the parking support.
Secure with safety hook (5)



4. Repeat steps 1 - 3 on second mower unit.

Retract the support stand

1. Pull the safety plug on the support stand (5) and move the support stand to the desired position
2. Engage the safety plug in the desired position.



General tips

DANGER

Life-threatening danger through tipping.

- Make sure the machine is standing securely. Check the locking mechanism of the support feet.
- Park the implement only on flat, firm ground.

DANGER

Life-threatening danger exists if another person starts up the tractor and drives away or actuates the control lever of the hydraulic system while you are engaged in maintenance.

- Before dismantling, switch off the engine, remove the key and brake the tractor.

DANGER

Life-threatening danger should the tractor start moving on its own.

- Before dismantling, switch off the engine, remove the key and brake the tractor.
- Secure the machine with chocks if necessary.

Park the machine in working position

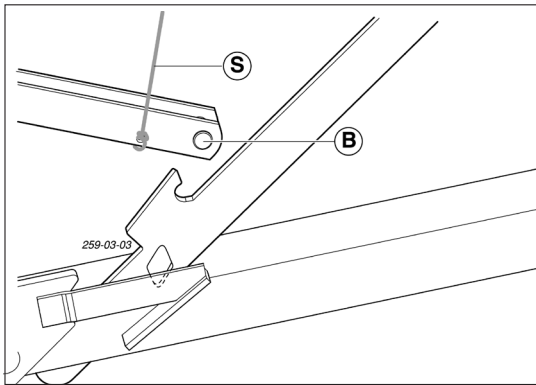
Prerequisite:

- the device is in transport position.



1. Swing flap up with rope (S)

- Flap position "B"

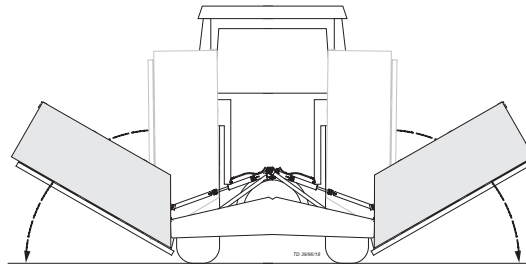


2. Swing the cutter bar hydraulically down to the ground.

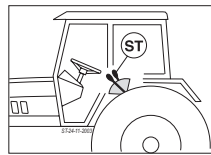
! DANGER

Life-threatening danger exists through swivelling and folding cutter bars

- Do not stand in the swivel range of the cutter bars.
- Before raising or lowering the cutter bars, make sure that the working area is free and that no one is in the danger zone.

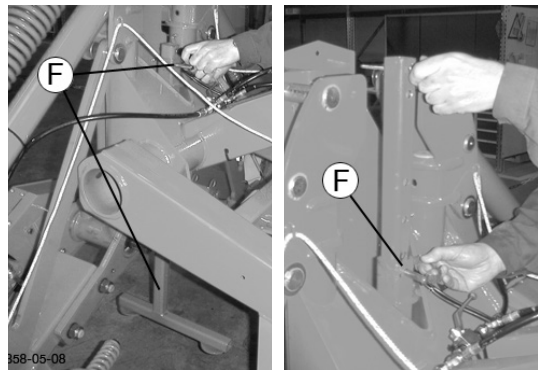


- Actuate control valve (ST)



- Release rope (S) when swivelling

3. Lower and secure the support stand (F)



4. Unhitching device from tractor

- Uncouple hydraulic lines
- Uncouple upper link
- Remove rope from tractor cabin
- Uncouple lower link
- Detach cardan shaft and place it to one side.

Park the device in transport position (optional)

TIP

Additional support stands (equipment on request) are required to park the machine in transport position.

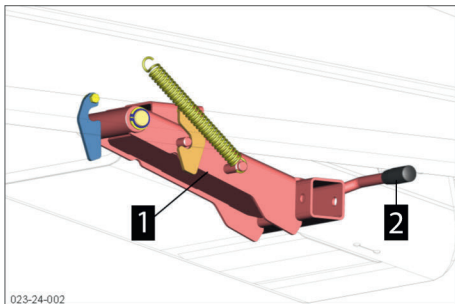
These support stands should be assembled before parking the machine and removed before operation.

Prerequisite:

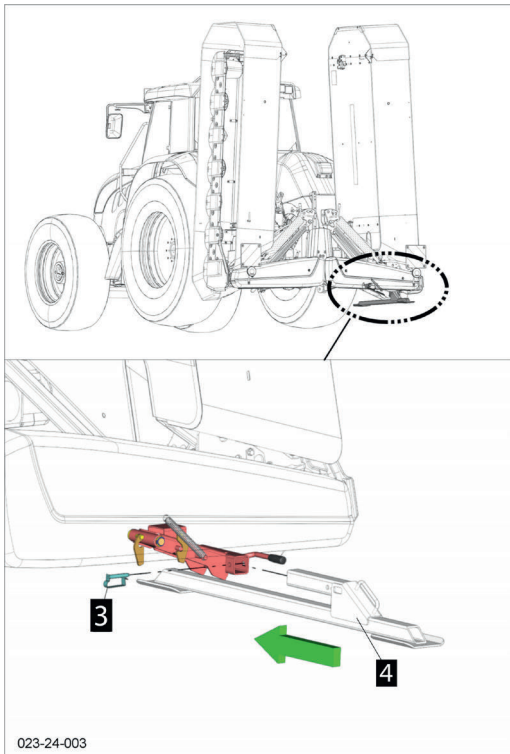
- the device is in the transport position on the tractor

1. Fit support stands

1. Move parking support bracket (1) to parking position:
Take the parking support bracket by the handle (2) and turn it outwards.
Secure with safety hook.



2. Insert support stand (4) and secure with linchpin (3).



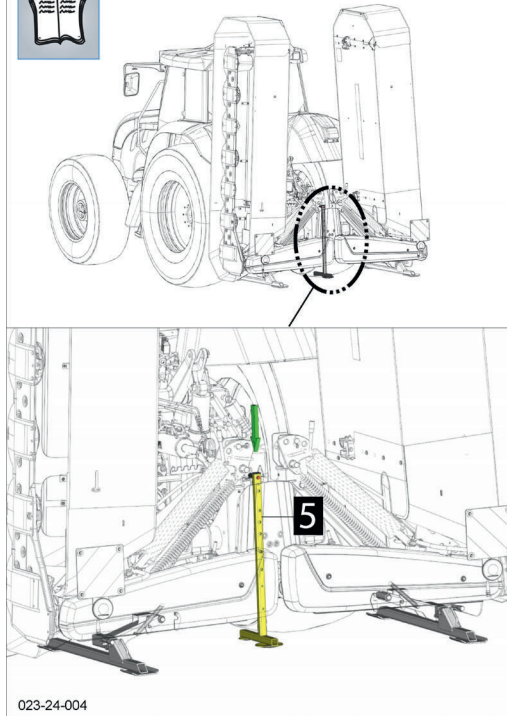
3. Repeat steps 1 and 2 on second mower unit.

2. Place the device on the ground using rear

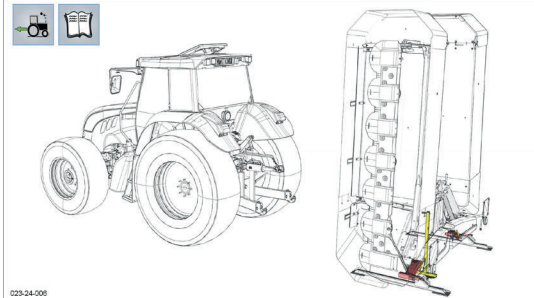
power lift.

3. Move support stands into working position

- a. Pull the safety plug on the support stand (5) and move the support stand to the desired position
- b. Engage the safety plug in the desired position.



4. Uncouple the device from the tractor



- Disconnect hydraulic line.
- Detach upper link
- Remove rope from tractor cabin
- Uncouple lower link
- Pull off PTO shaft and lay it down (3)

TIP

The support stand (5) and the parking support brackets (1) must be returned to the working position to attach the device. The parking supports (4) must be dismantled.

Parking in the open

! NOTE

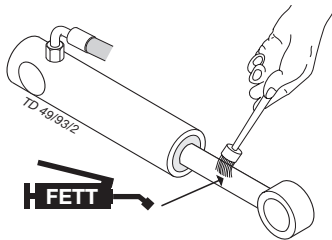
Danger of damage to property due to oxidation#

A rusty piston rod can damage sealing elements!

Clean all the piston rods and preserve them using grease before parking the machine for long periods in the open air.

At the end of the season

- Clean the piston rod and all other bare parts and preserve with grease.
- Refer to the information in the "MAINTENANCE" section



General safety information

! DANGER

Danger to life - due to the mower tipping

- Change from the working to the transport position only on level, solid ground.

! DANGER

Life-threatening danger through rotating or ejected components

- Switch off the cutter bar drive.
- Wait until the cutter bar has stopped moving before swivelling it up.
- Never let the mower run when raised.
- Lower the machine completely or switch it off when leaving the tractor cab.

! DANGER

Danger to life - due to moving parts

- Make sure that the swivel range is clear and that no-one is standing in the danger area.

Transport position



04-20-012

TIP

- Observe the laws and regulations of your country.

Driving on public roads is only permitted in the transport position.

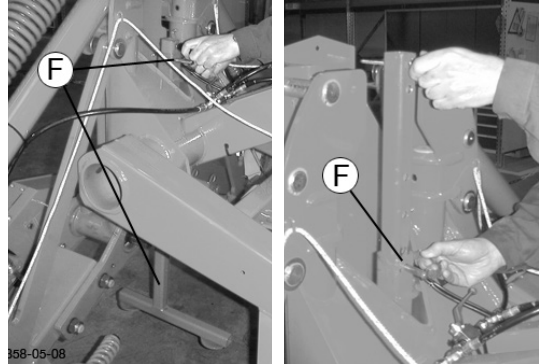
Starting situation

1. Machine attached to the tractor

- see chapter "Attaching the implement to the tractor"

2. Machine in working or headland position

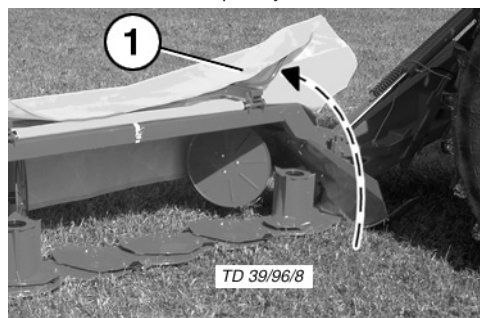
3. Support stand raised and secured (F)



Changing to transport position.

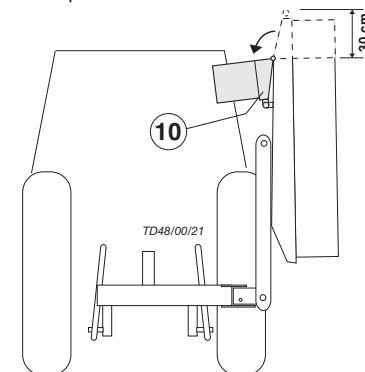
1. Fold front protective cover backwards (1).

This is necessary with certain tractor types. It prevents damage to the open rear window or mud guard if the cutter bar is subsequently raised.



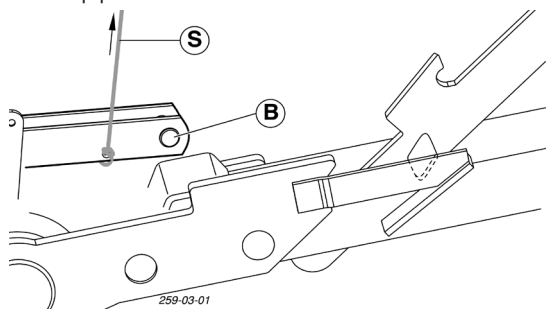
2. Fold external protective cover inwards (10).

- The external guard (10) can be swiveled inwards to reduce the overall height (-30 cm) in the transport position.



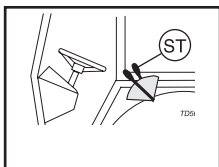
3. Swivel the transport safeguard up using the rope (S)

- Flap position "B"



4. Move cutter bar to transport position

- Actuate control valve (ST)

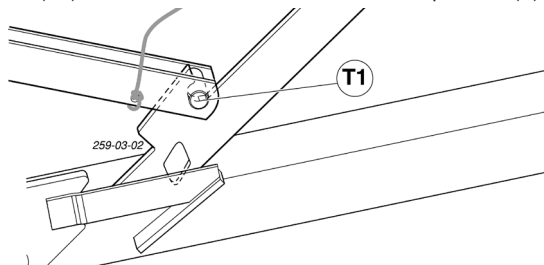


- Release rope (S) when swivelling
- Engage flap (T1)

5. Locking the transport safeguard

- Set the control valve (ST) briefly to "lower" (S).

This ensures that the flap engages firmly in the hook (T1) and fixes the cutter bar in the raised position (T).



General safety information

! DANGER

Life-threatening danger through the mower tipping over

- Change from the working to the transport position only on level, solid ground.

! DANGER

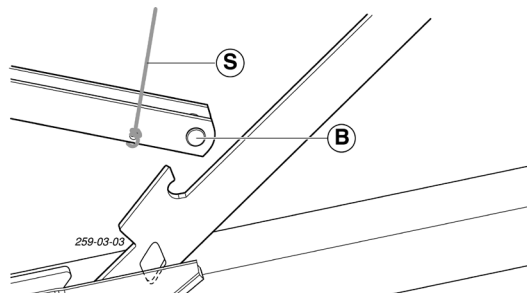
Life-threatening danger through rotating or ejected components

- Switch off the cutter bar drive.
- Wait until the cutter bar has stopped moving before swivelling it up.
- Never let the mower run when raised.
- Lower the machine completely or switch it off when leaving the tractor cab.

! DANGER

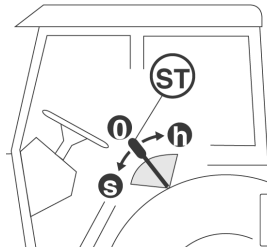
Life-threatening danger through moving parts

- Make sure that the swivel range is clear and that no-one is standing in the danger area.



2. Swivel the cutter bar hydraulically down to the ground.

- Hydraulic control device (ST) to "LOWER" (s).
- Release rope (S) when swivelling
- Set the hydraulic control unit (ST) to "SWIMMING POSITION" (only with double acting hydraulic control device).



Working position



Starting situation

- **Machine attached to the tractor**
 - see chapter "Attaching the implement to the tractor"
- **Cutter bar in transport position**

Change to working position

1. Swing flap up with rope (S)

- Before doing this, briefly set the hydraulic control unit (ST) to "LIFT" to release the flap in the hook.
- Flap in position "B"

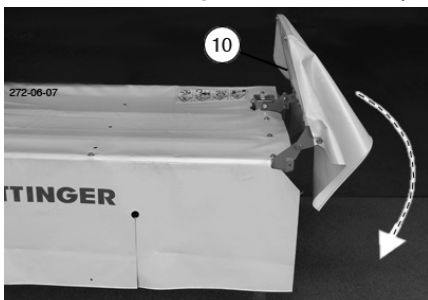
3. Close protective cover (10)

CAUTION

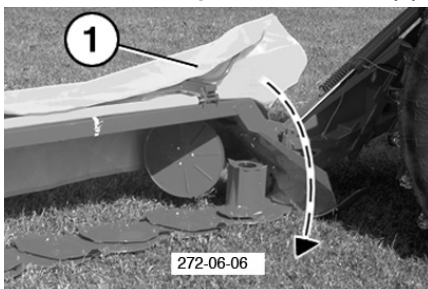
Risk of slight or moderate injury due to crushing on protective cover.

- Pay special attention when swivelling the protective cover.
- Do not reach into the danger area.
- Direct other persons away from the hazard area.

a. Close outer protective cover (10)



b. Close outer protective cover (1)



- Use only with closed protective cover.

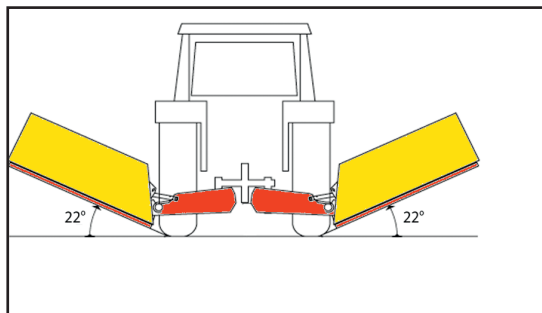
General guidelines on working with the machine

! DANGER

Life-threatening danger through components being ejected

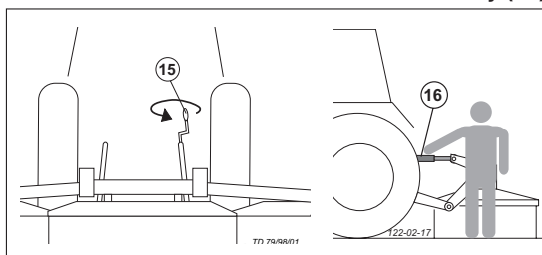
- Observe a safety distance whilst the mower discs are rotating.
- Lower the machine completely or switch it off when leaving the tractor cab.
- Wait until the cutter bar has stopped moving before swivelling it up.
- Never let the mower run when raised.

- The mower unit is suitable for an upward inclination of 22° resp. downward 30° angle of repose.



Mowing

1. Set the lower link of the hoist horizontally (15)



2. Set cutting height by turning the upper link spindle (16)

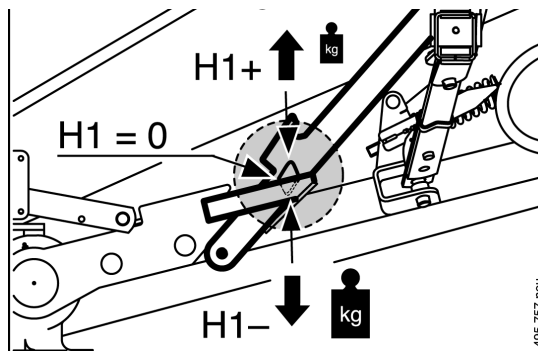
- max. 5° mower discs inclination

3. Set height (H1) of hoist

This hoist position (H1) does not need to be changed when mowing and turning.

Lift resp. lower the implement with the help of the tractor hoist until it reaches the distance (H1 = 0).

Set the ground bearing load of the mower bar



H1 = 0 basic position

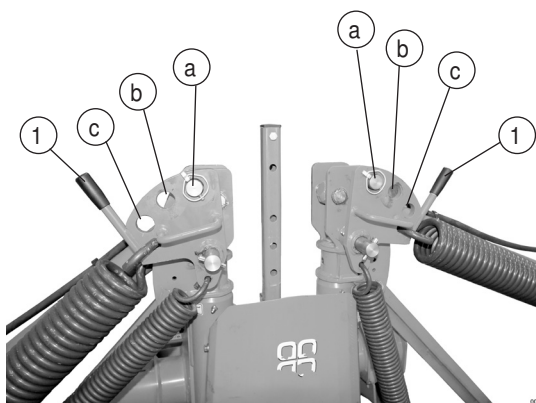
H1 + reduce bearing pressure

H1 - increase bearing pressure

4. Set relief pressure

TIP

Set the same relief pressure for both cutter bars!



Basic setting at position (a): approx. 70 kg

Reduce the default setting in wet weather or heavy, damp grass.

Reduce the basic setting with the lever (1). The following positions are available (a, b, c)

1. Unlock the bolt and remove it from the position hole.
2. Move lever (1) to new position.
3. Place the bolt in the required position hole and secure.

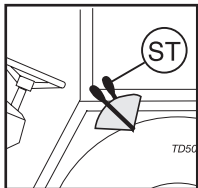
4. For mowing, slowly engage the p.t.o. shaft away from the crop and bring the mower rotor up to full speed.

Smoothly increasing the p.t.o. speed will avoid system-related noises from the p.t.o. freewheel.

- The driving speed depends on the ground conditions and the crop to be mown.

5. Hydraulic servo-valve (ST)

- Single-action hydraulic control valve (ST) on "LOWER"

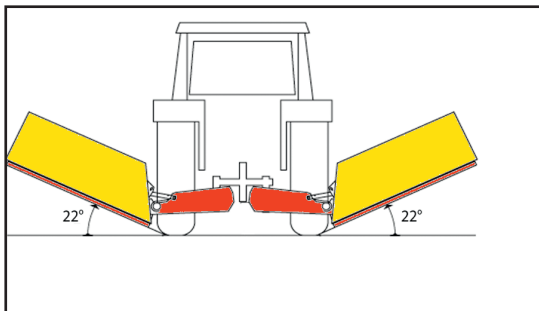


- Double-action hydraulic control valve (ST) on "Floating position"

Turning when mowing

The mower bars can be swivelled up hydraulically (22°).

- For this it is not necessary that the gear be switched off.
- The hoist position (H1) does not need to be changed when turning.



Reversing

Raise the mower when reversing!

Collision Avoidance

When mowing around trees, fences, boundary stones etc., collisions between the cutter bar and obstacles can occur despite careful and slow driving. In order to avoid damage, a collision safety device is provided on the mower.

! NOTE

Risk of material damage if the device collides with obstacles.

- It is not the purpose of the anti-collision safety to prevent damages on the implement at full speed. If you are not sure whether the area to be mown is really free from obstacles, then drive slowly!

- The anti-collision safety causes the cutter bar to swivel back in case of collision with an obstacle.
- If you drive backwards, the anti-collision safety snaps back in.

Setting:

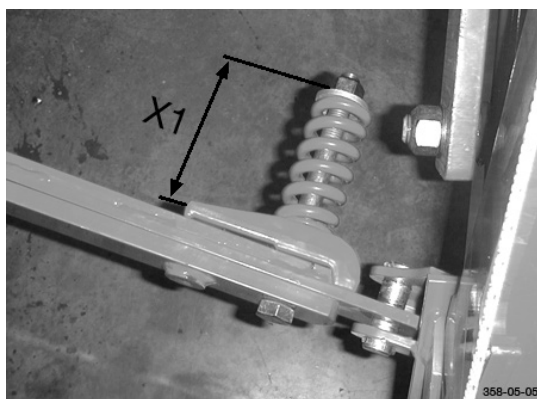
If the anti-collision safety is not properly engaged, the hexagonal nut can be twisted.

Setting values:

NOVADISC 732 = 110 mm

NOVADISC 812 = 105 mm

NOVADISC 902 = 105 mm



Safety advice

! DANGER

Life-threatening danger exists through moving or rotating parts

Only carry out maintenance or assembly works only when the device

- has been parked securely and steadfastly on level, firm ground.
- It has been secured against rolling with wheel chocks.
- The tractor engine is turned off and the pto shaft is stationary.
- and all moving or rotating parts (especially the mowing discs) have come to a complete standstill. (Hearing test!)
- The tractor's ignition key has been removed.
- If necessary, remove the cardan shaft.

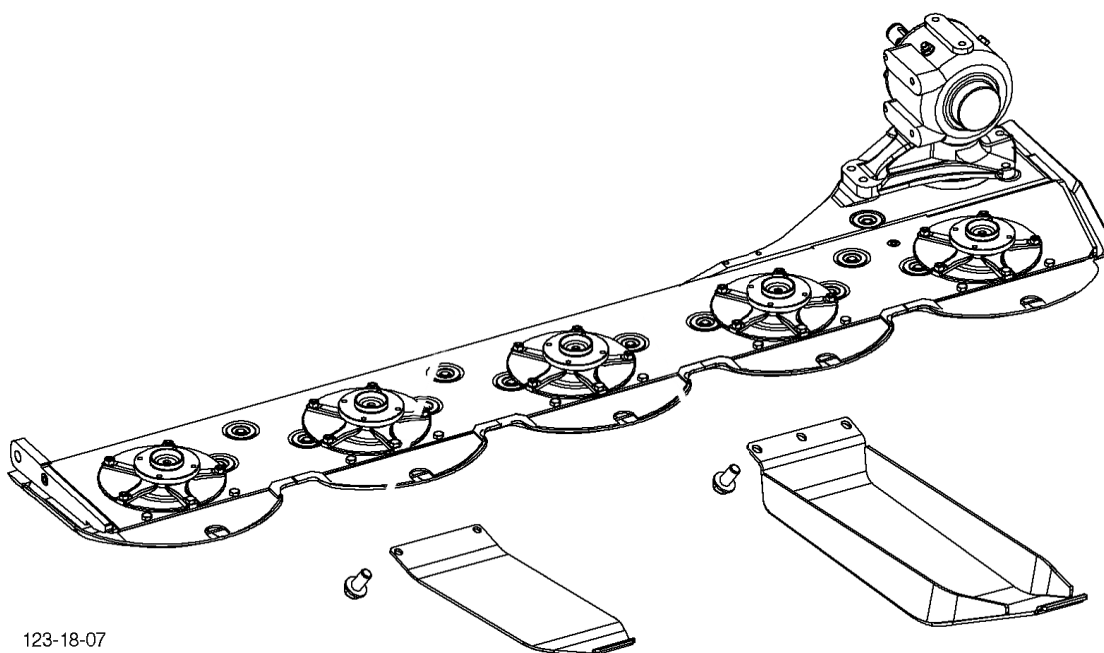
Life-threatening danger exists when under the machine

- Support the sections where you will be under accordingly.

TIP

For more information on mounting an assembly, refer to the appropriate Mounting or Retrofit Guide.

1. Wear and high cut skids



123-18-07

2. Swath former

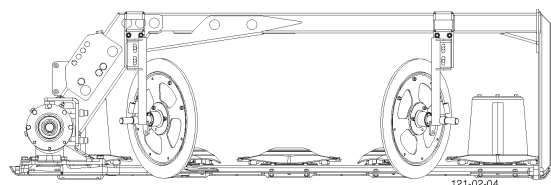
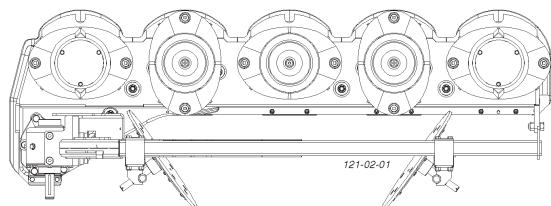
A narrow swath is formed when using the swath plates while mowing. This avoids driving over the crop with wide tractor tyres.

Can be used with:

NOVADISC 732

NOVADISC 812

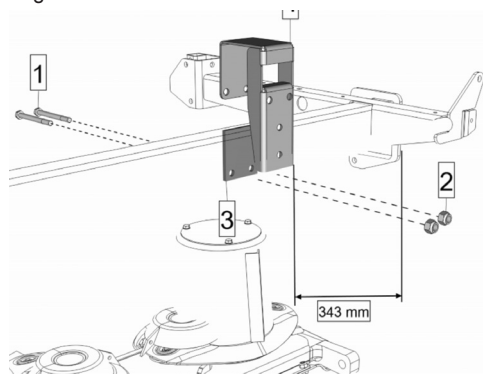
NOVADISC 902



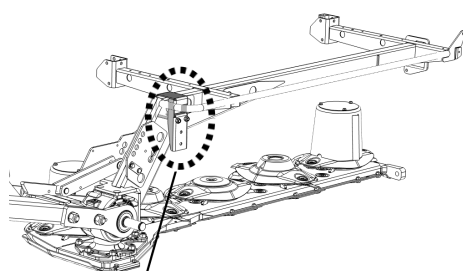
Assembly of the swath former:

1. Mount the swath former bracket inside the outer mower disc on the frame. Mount the console in such a way that all the mown material is later transported inwards by the swath formers.

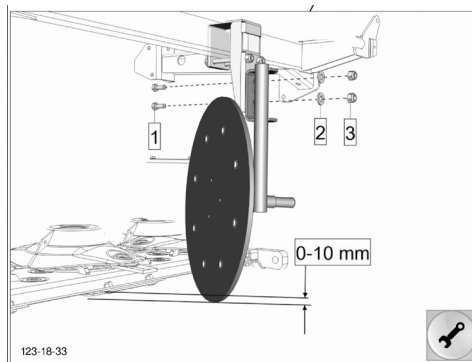
On the right means a distance of 343 mm from the edge of the frame.



To the left means no distance from the edge of the frame.



2. Mount the swath former on the swath former bracket. Mount the swath formers so that they fall below the lower edge of the cutter bar by up to 10 mm.



Protective cloth adjustment:

The protective cloth must be left free in the area of the swath former.

Cut a slit in the protective cloth on the right.

Open the buckle on the left.

Buckle open



3. Additional swath former

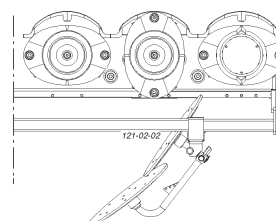
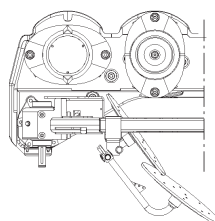
A narrow swath is formed when using the swath plates while mowing. This avoids driving over the crop with wide tractor tyres.

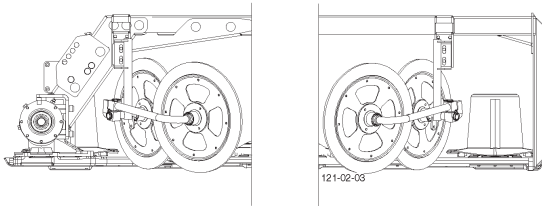
Can be used with:

NOVADISC 732

NOVADISC 812

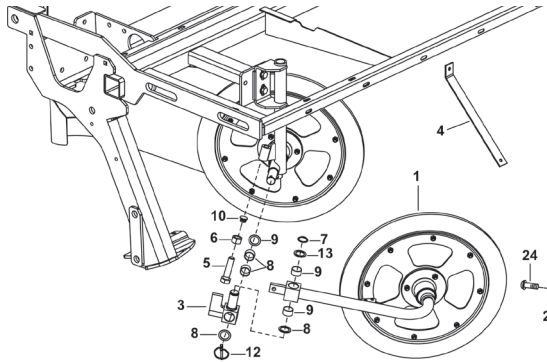
NOVADISC 902





Assembly of the additional swath former:

The additional swath formers are mounted on the bearing of the swath former.

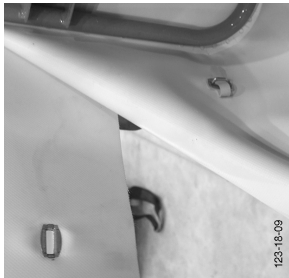


Protective cloth adjustment:

The protective cloth must be left free in the area of the swath former.

Cut a triangle on the right (from hole to hole)

Fold the protective cloth to the left so that a triangle is exposed and secure it by closing the buckle.



Cloth folded

Buckle closed



4. Protective apron

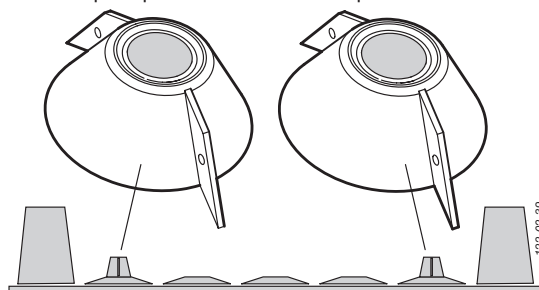
The protective cloth must be left free in the area of the swath former. Depending on the number of swath formers installed, different cutting patterns must be selected. See chapter 2 "Swath former" and chapter 3 "Additional swath former".

- Use a suitable tool for cutting!
- The cutting line is the connection between the holes as shown in the appendix to this instruction manual.

5. Conveying cones (optional)

Conveying cones are recommended:

- to improve the conveyance rate of swath deposits, particularly with heavy, dense forage.
- See spare parts list for individual parts



Safety advice

DANGER

Life-threatening danger exists through blades being thrown out.

- After the first operating hours tighten all blade screwed connections.
- Check all safety equipment before starting work. In particular, make sure that the side safeguards are folded down correctly in the field transport position.

DANGER

Life-threatening danger exists through ejected parts when removing a blockage, when changing blades or when adjusting the machine during operation.

- Stop tractor/trailer unit on level ground and apply tractor's brakes.
- Park the mower in the working position.
- Before going to the rear of the machine, make sure that the PTO shaft is stationary and that the hydraulic connections are depressurised.
- Remove the tractor key!

DANGER

Life-threatening danger exists through falling off the machine.

- Do not climb onto, play on or around the machine.
- Do not let anyone climb on or clamber about on the machine.
- Before starting, make sure that no one is standing on the machine or in its danger area!

TIP

Further safety instructions: see Supplement A, pt. 1. - 7.)

After the first hours of operation

- Retighten all blade screw fittings.

Starting work

1. Check

- Check the condition of blades and the blade fastening.
- Check mowing discs for damage (see chapter "Maintenance and Service").

2. Only switch the machine on when in the working position and do not exceed the stipulated p.t.o. speed!

A transfer, located near the gearing, advises which p.t.o. speed your mower unit is equipped for.

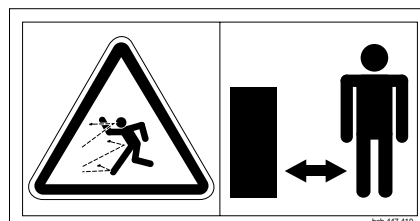
1000 Upm

- Always, and only, switch the p.t.o. drive on when all safety devices (covers, protective aprons, casings, etc.) are in proper condition and are attached to the machine in their safety positions.

3. Pay attention to correct p.t.o. direction of rotation!



4. Remain at a distance when the engine is running.



- Keep people out of the danger zone as any foreign bodies ejected by the mower could injure them. Special care is necessary on stony ground, and near roads and paths.

5. Prevent any damage!

NOTE

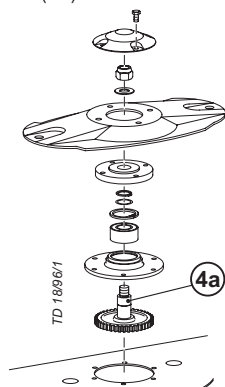
Property damage caused through unnoticed obstacles. Obstacles (e.g. large stones, pieces of wood, boundary stones, etc.) can damage the mower unit

- Inspect the meadow before mowing.
- Remove or drive around the obstacles at a sufficient distance.

The area to be mowed must be free of obstacles or foreign objects. Such objects (e.g. large stones, pieces of wood, boundary stones, etc.) can damage the mower unit.

If a collision should occur,

- Stop immediately and switch off the drive.
- Check the implement carefully for any damage. In particular check the mowing discs and their drive shafts (4a).



- If necessary have it checked over in a specialist work shop as well.

After contact with a foreign object

- Check the condition of knives and the knife fixings.
- Retighten all blade screw fittings.

DANGER

Danger to life - due to parts being thrown off

- Do not step into the danger area of the mower while the motor is running.

6. Wear hearing protection

The noise level in the workplace can deviate from the measured value (see Technical Data) partly because of the differing cabin types of various tractors.

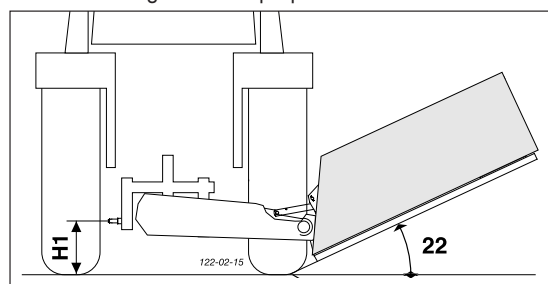


- If a noise level of 85 dB (A) is reached or exceeded, then the contractor (farmer) must have suitable hearing protection readily available (UVV 1.1 § 2).
- If a noise level of 90 dB (A) is reached or exceeded, then hearing protection must be worn (UVV 1.1 § 16).

Turning when mowing

The cutter bar can be swivelled with the control unit to the headland position (22°).

- The mechanism does not have to be switched off for this purpose.
- The height of the lifting gear (H1) does not have to be changed for this purpose.



Working on slopes

! DANGER

Life hazard - due to tandem tipping. The tractor's travelling characteristics are influenced by the weight (G) of the mower unit. This can lead to dangerous situations, especially on slopes.

Tipping hazard on slopes is present

- when the mowing units are lifted hydraulically
- when bending with lifted mowing unit

Counter-measures:

- Reduce speed when bending accordingly.
- It is better to travel in reverse on a slope than to carry out a risky turning manoeuvre.

! NOTE

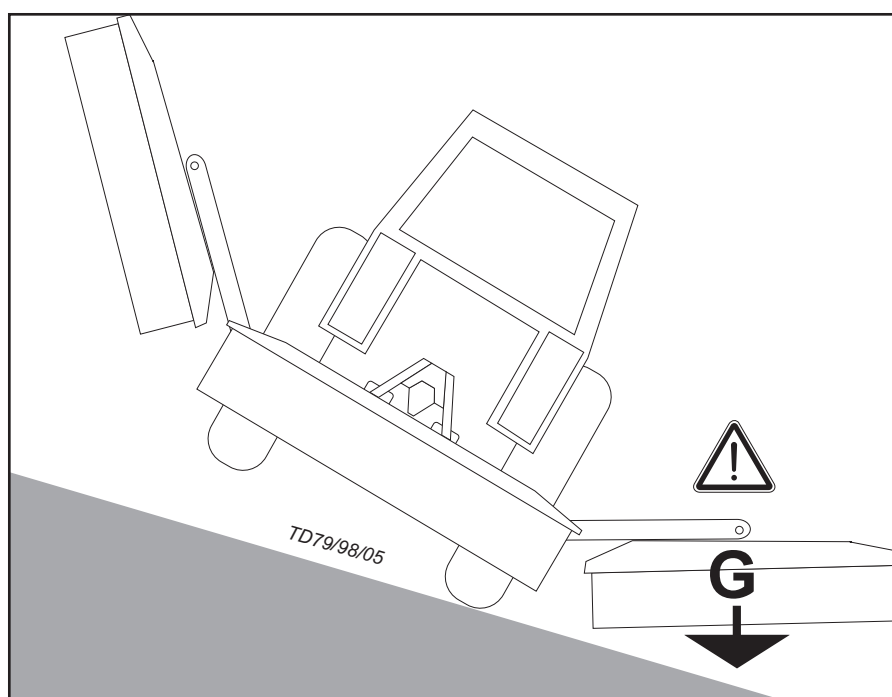
Material hazard - due to unnoticed obstacles

- Raise the mower when driving backwards and reversing!

! DANGER

Life hazard - due to tandem tipping. There is a danger of tipping when swivelling the implement on headland.

- Swivel the cutter units successively using the individual lifting system in "field transport" or "working position".
- When swivelling in "field transport" or "working position": Always swing the uphill side mower first and then the downhill side mower!



Safety advice

! DANGER

Life-threatening danger exists through moving or rotating parts

Carry out maintenance works on the machine only when

- It has been parked securely on level, firm ground.
- It has been secured against rolling with wheel chocks.
- The tractor engine is turned off and the pto shaft is stationary.
- all moving or rotating parts (especially the mowing discs) have come to a complete standstill. (Hearing test!)
- The tractor's ignition key has been removed.
- If necessary, remove the cardan shaft.

Life-threatening danger exists when under the machine

- Adequately support the sections you will be under.

! WARNING

Risk of serious injury or injury resulting in death due to oil leak

- Pay attention to scuffed or clamped hose areas.
- Clean the couplings of the oil hoses and the oil sockets prior to each connection!
- Wear the relevant protective clothing.

! NOTE

Material damage due to impurities that have penetrated into the hydraulic system

- Clean the couplings of the oil hoses and the oil sockets prior to each connection!

General maintenance information

Please observe the information below to maintain the machine in good condition even after a long period in operation:

- Re-tighten all bolts after the first hours in operation.

The following should be checked in particular:

Blade bolt connections on the mowers

Tine bolt connections on the rake and tedder

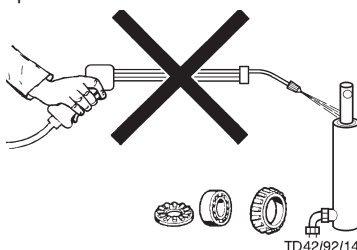
Spare parts

- Genuine parts and accessories are specially designed for the machines.
- We expressly draw your attention to the fact that genuine parts and accessories not supplied by us, have not been tested and approved by us.
- Under certain circumstances, the installation and/or use of such products may negatively modify or impair the specified structural properties of the machine. The manufacturer accepts no liability for any damage caused through the use of non-genuine parts and accessories.
- Any unauthorised modifications and/or fitting of components and attachments to the machine negates any liability on the part of the manufacturer.

Cleaning of machine parts

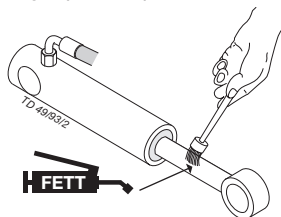
Beware! Do not use high-pressure cleaners for the cleaning of bearing and hydraulic parts.

- Danger of rust!
- After cleaning, lubricate the machine according to the lubrication chart and carry out a brief test run.
- Cleaning pressure being too high may damage the paint.



Parking in the open

Clean and protect the piston rods with grease prior to longer periods parked out in the open



Winter storage

- Clean machine thoroughly prior to winter storage.
- Park protected against the weather.
- Change or top up gear oil.
- Protect exposed parts from rust.
- Lubricate all greasing points according to lubrication chart.
- Disconnect terminal, store dry and protected from frost.

Articulated shafts

- See information in the supplement

Please observe the following for maintenance!

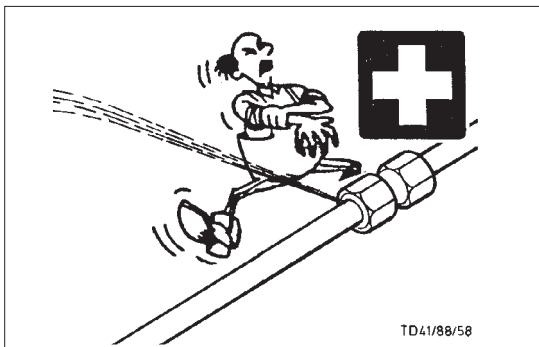
The directions in these Operating Instructions apply.

If no particular instructions are available here, then the information in the instructions supplied by the respective cardan shaft manufacturer apply.

Hydraulic unit

Caution: injury and infection hazard!

Liquids escaping at high pressure may penetrate the skin. Therefore seek immediate medical help!



Make sure that the hydraulic system is suited to the tractor before connecting the hydraulic lines.

After the first 10 hours of operation and every 50 hours in operation thereafter

- Check hydraulic unit and lines for leaks and if necessary re-tighten bolt connections.

Prior to every startup

- Check hydraulic hoses for wear.

Replace any worn or damaged hydraulic hoses immediately. The replacement hoses must meet the manufacturer's technical requirements.

Hose lines are subject to natural ageing and need to be replaced after a maximum of 6 years.

General safety information

! DANGER

Life-threatening danger exists through another person starting the tractor and driving off, or switching on the cardan shaft while maintenance work is being carried out.

- Lower mower unit
- Turn engine off and remove key before carrying out maintenance or repair work.

! DANGER

Life-threatening danger exists if the machine starts to roll or tilt.

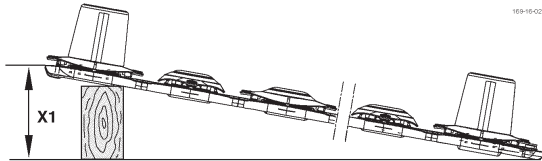
- Before any maintenance and repair work, park the machine on even, firm ground.
- Braking the machine

Oil level control of the mower bars

- Under normal operating conditions, oil is to be replenished annually.

1. Lift one side of the mower bar (X1) and support.

X1 = Distance from the left upper skid edge to the right upper skid edge.



NOVADISC 732: X1 = vertical

NOVADISC 812: X1 = 600 mm

NOVADISC 902: X1 = 240 mm

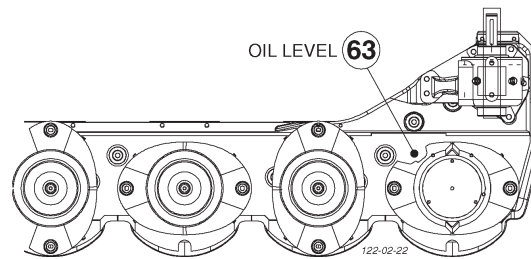
- The side where the oil refill screw is located remains on the ground.
- Lift the mower bar on the other side (X1) and support it with suitable means.

2. Leave mower bar in this position for about 15 minutes.

- This time is necessary to allow the oil to collect in the lower area of the mower bar.

3. Remove oil fill screw (63).

Measure oil level through the opening (63).

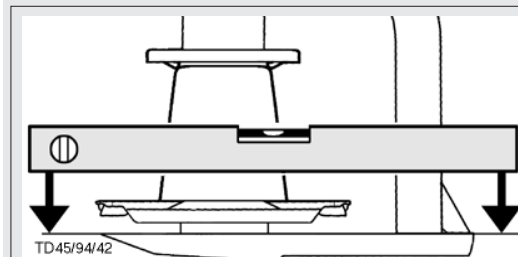


4. Oil level check

! NOTE

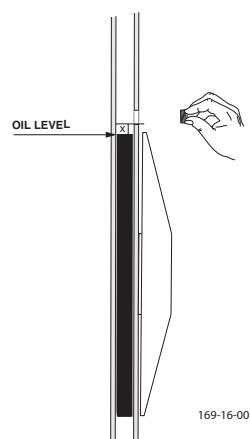
Property damage through too much or too little oil.

- The full length of the cutter bar is propped up. The width of the cutter bar must be exactly horizontal (see illustration).



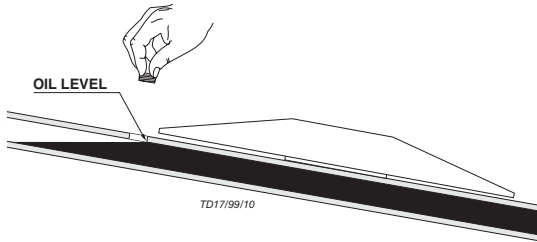
4.1 Oil level for NOVADISC 732:

The oil level is correct when the oil level reaches 5 mm below the level screw.

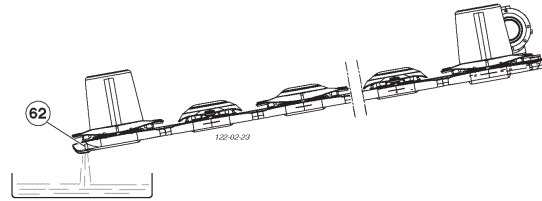


4.2 Oil level for NOVADISC 812/NOVADISC 902:

The oil level is correct when the gear oil comes up to lower edge of the level screw (63) (OIL LEVEL).



- The cutter bar must hang down at the edge.
- Take out oil drain plug (62), let oil run out and dispose of waste oil correctly.



5. Topping up oil

Add the amount of oil lacking.

NOTE

Property damage through too much or too little oil.

Too much oil can cause the cutter bar to overheat during operation.

Too little oil does not guarantee the necessary lubrication.

- Be precise when adding oil!

Cutter bar oil change

- Change oil after the first 50 operating hours or after 100 ha at the latest.

Note:

- Change oil when at operating temperature.
The oil is too viscous when cold. Too much old oil remains stuck to the gearwheels and thus any suspended matter present cannot be removed from the gearing.

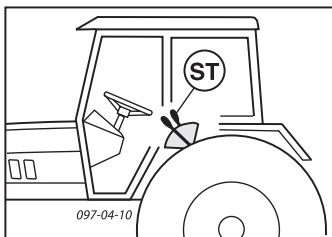
Oil quantity

NOVADISC 732: 2 x 3.1 litre SAE 90

NOVADISC 812: 2 x 3.5 litre SAE 90

NOVADISC 902: 2 x 4.0 litre SAE 90

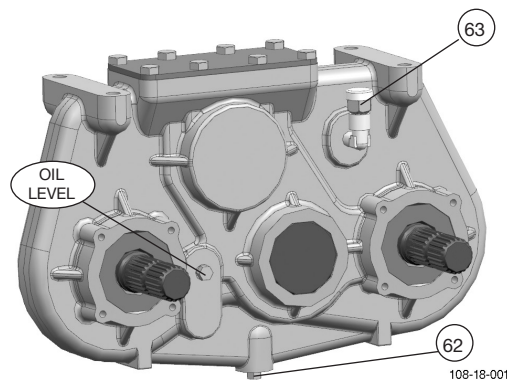
- Raise the lifting mechanism of the tractor completely.
- Hydraulic control unit (ST) to "LOWER".



Oil change main gear

- Change oil after the first 50 operating hours.
Under normal operating conditions, oil is to be topped up annually (OIL LEVEL).
- Change oil after 300 ha at the latest.
- The oil evacuation screw (62) is located underneath the gear.

Oil quantity: 0.75 litre SAE 90

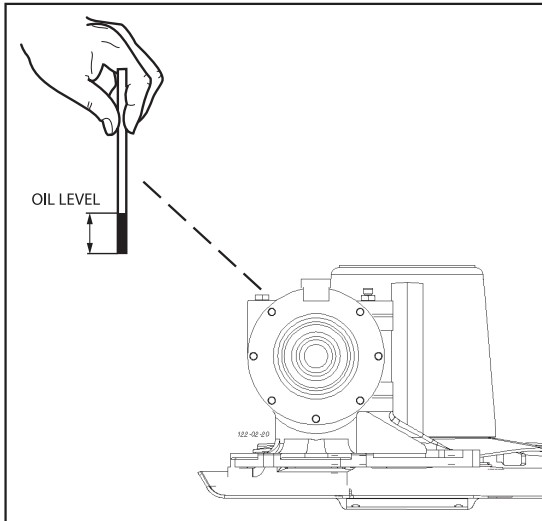


Oil level check, angular gear

- Perform oil level check with the available oil probe. On the oil probe is marked the oil level (OIL LEVEL).
- Change oil after the first 50 operating hours.
Under normal operating conditions, oil is to be topped up annually (OIL LEVEL).
- Change oil after 300 ha at the latest.

Oil quantity:

0.80 litre SAE 90

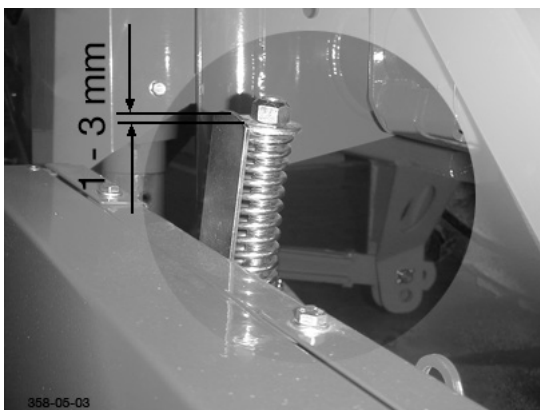


V-belt drive

- Check V-belt tension:
After 1 hour, after 5 hours, after 20 hours then occasionally.

Setting value:

1 - 3 mm



- Re-tensioning is only required if the adjustment dimension is more than 3 mm.
- If any of the 4 V-belts are damaged or twisted, then all 4 V-belts must be replaced.

! NOTE

Risk of material damage to ball bearings and shafts due to excessive tensioning of the V-belts.

- Do not excessively tension the V-belts!

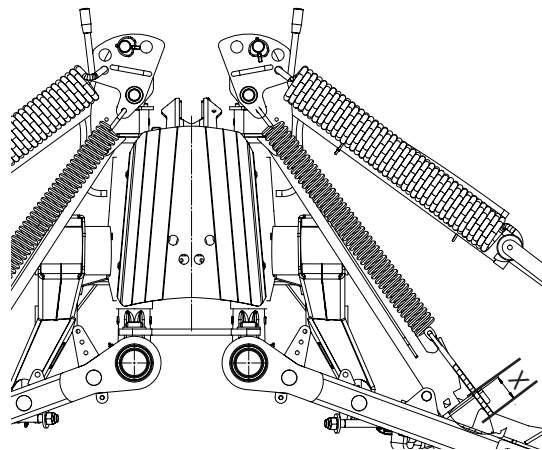
Setting relief springs

To avoid damaging the sward, the mower bar must

- take almost a horizontal position just before touching the ground
- set down with the exterior side first
- then with the interior side

This can be achieved by adjusting the weak relief spring.

If the interior side of the mower bar touches the ground first, the relief spring must be tensioned. ("X" smaller)



Setting relief springs

NOVADISC 732 "X" = 45 mm

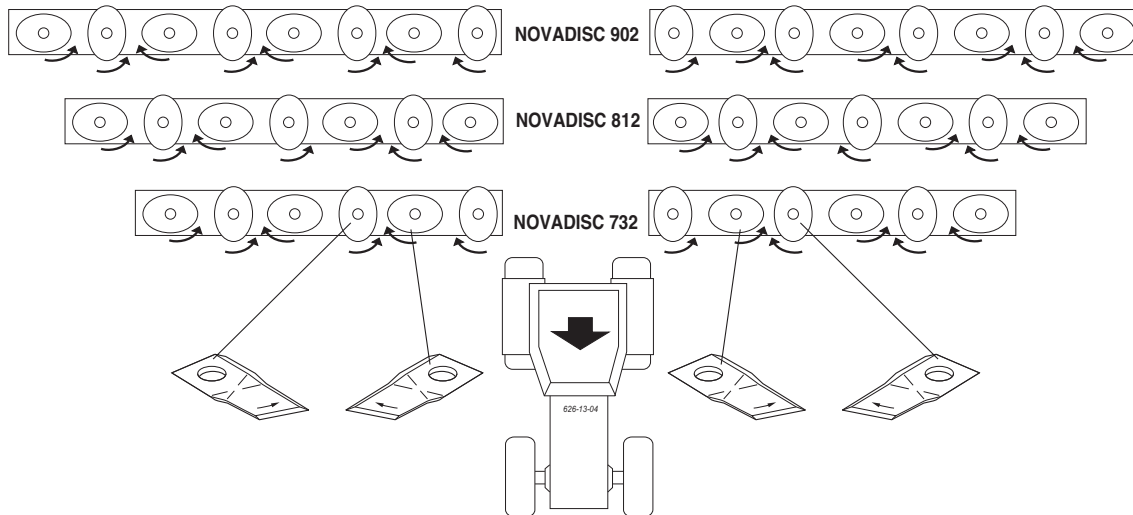
NOVADISC 812 "X" = 45 mm

NOVADISC 902 "X" = 50 mm

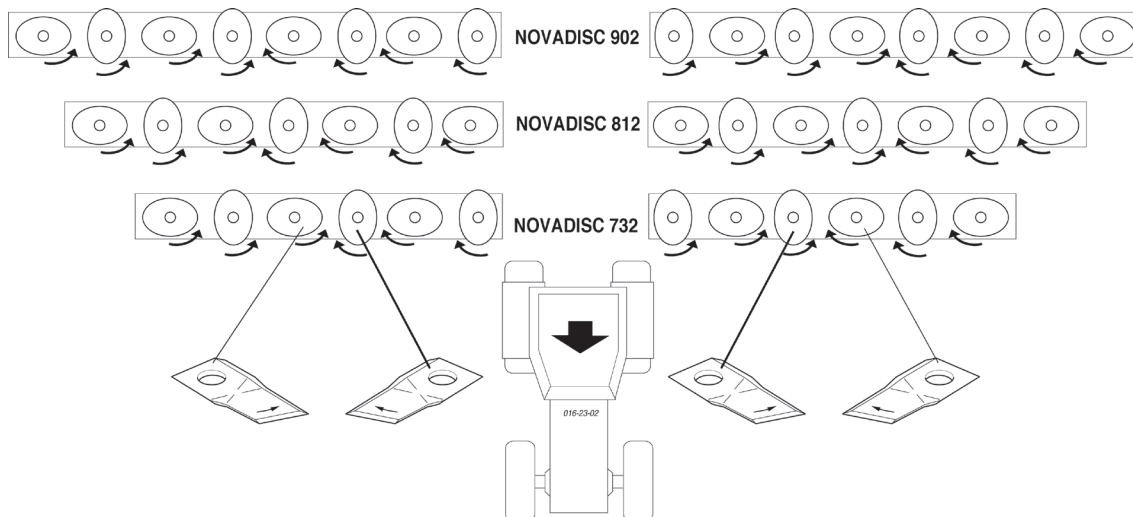
Installing cutter blades

TIP

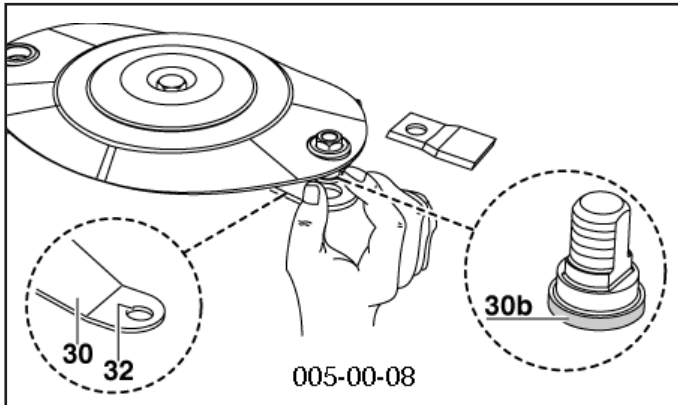
- The arrow on the cutter blade shows the cutter disc's direction of turn.
- The mounting surfaces must be free of paint before fitting.



Mountain drive version for NOVADISC 732

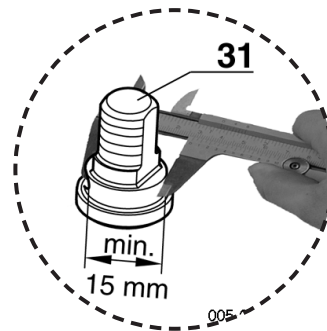
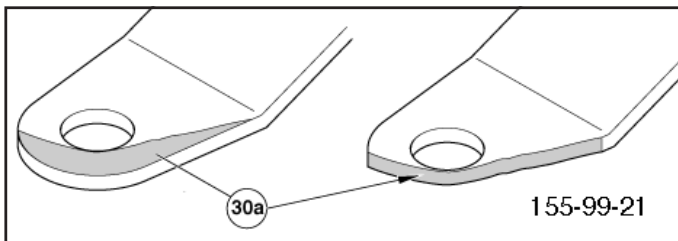


Wear control cutting blades bracket



The following parts are subject to wear:

- Cutting blade brackets (30)
- Cutting blades pins (31)



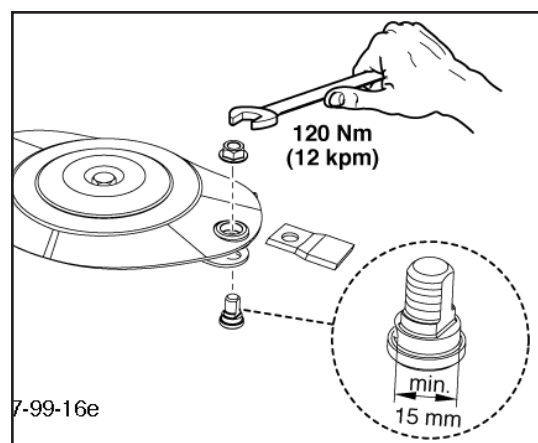
Procedure - Visual control

1. Remove the cutting blades.
2. Remove grass residues and dirt
 - around the pin (31).

! DANGER

Life hazard - due to projected parts when

- the blade pin in the middle is worn off up to 15 mm
- the wear area (30a) has reached the edge of the hole.
- the lower blade pin (30b) is worn off
- the blade pin is no longer stable in position
- Check the cutter blade holders before any putting into operation, and frequently during operation, immediately after driving over a solid obstacle (e.g. stone, wood piece, metal ...). If you find one or several wear signs, do not continue mowing.
- Worn parts must be immediately replaced with Pöttinger original parts.
- Blade pins and nuts shall be fastened with 120 Nm.

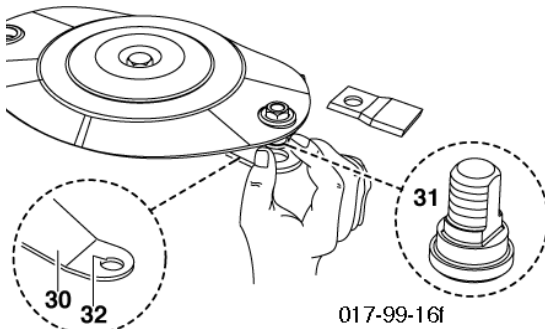


Holder for the rapid change of mowing blades

! DANGER

Life hazard - due to projected parts when

- the mowing blades on a mowing disc are worn unequally (imbalance hazard). Replace both mower blades of this disc with original Pöttinger parts!
- the mowing blades are bent, damaged and worn. Replace the affected mower blades!
- the blade holders (30) are bent, damaged and worn. Replace the affected blade holders!
- Check mower blades and blade holders regularly.

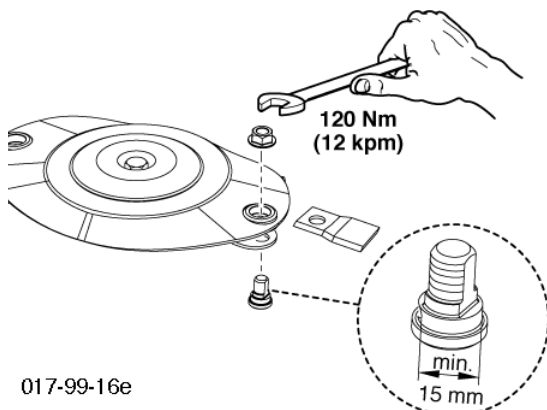


Mowing blades suspension checks

- Normal check every 50 hours.
- Check more often when mowing on stony terrain or in any other difficult operating conditions.
- Immediately check after driving over a solid obstacle (e.g. stone, wood piece, ...).

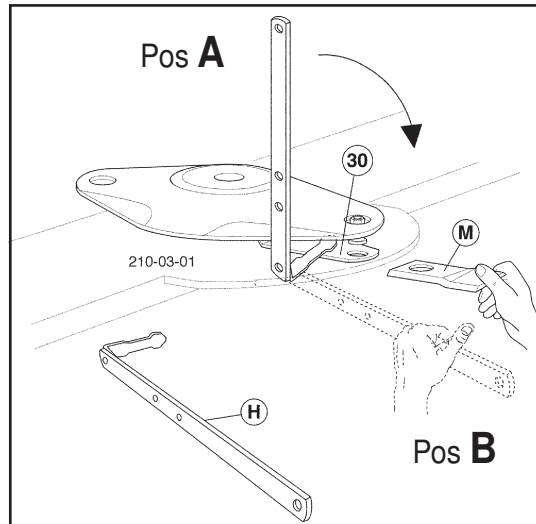
Checking procedure

- as described under chapter "Changing the Mowing blades"



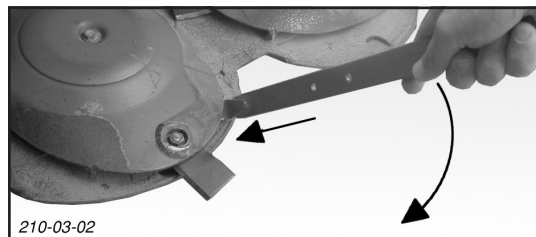
Changing the cutting blades (from year of construction 2004)

1. Insert lever (H) from left or right side on the cutter disc "Pos. A" until it stops.
2. Swivel the lever from "Pos. A" to "Pos. B" and push the movable holder (30) downwards.
3. Remove the cutter blade (M).



4. Remove fodder residue and dirt

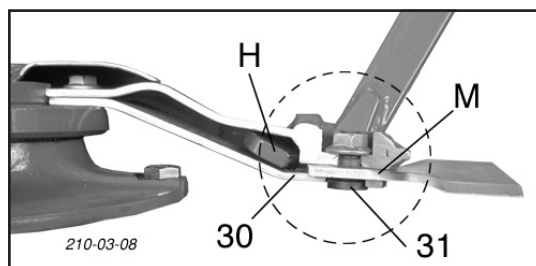
- around the bolts (31) and inside the borehole (32).



5. Check

- The blade bolt (31) for damage, wear and tight fitting.
- Holder (30) for damage, change in position and fitting
- Borehole (32) for damage.
- Side surfaces must not show any signs of deformation.

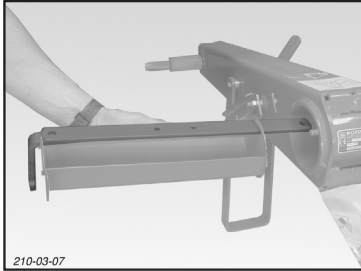
6. Install the cutter blade



7. **Visual control!** Check that the blade (M) is correctly positioned between blade bolts (31) and holder (30) (see image).
8. Swivel lever (H) to "A" again and remove.

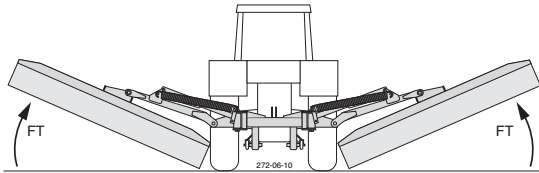
Storing of the lever

- After use, insert the lever into the holder and secure it.



Mowing with only one mowing unit

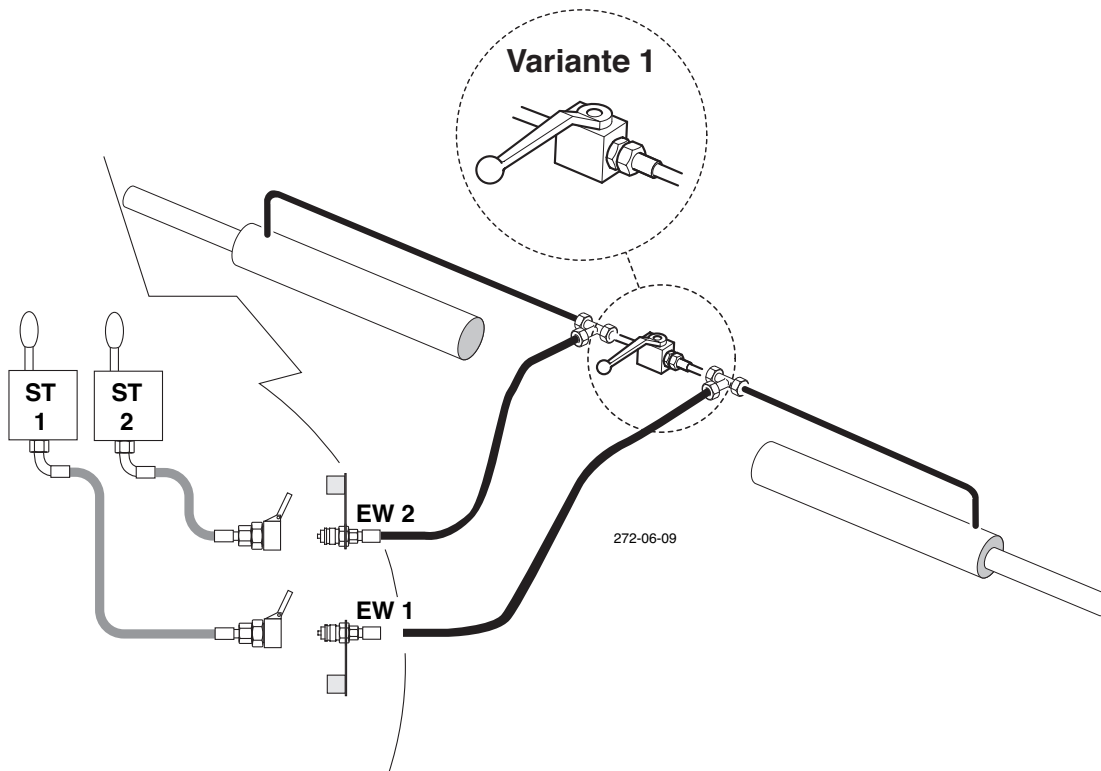
A mowing unit can be lifted when driving over fodder which has already been mown or if required for reasons of space.



NOTE

Risk of material damage due to limited oil quantity.

- Do not raise mowers above the field transport position using the individual lift!



The individual lift can be activated by means of 2 options.

Option 1

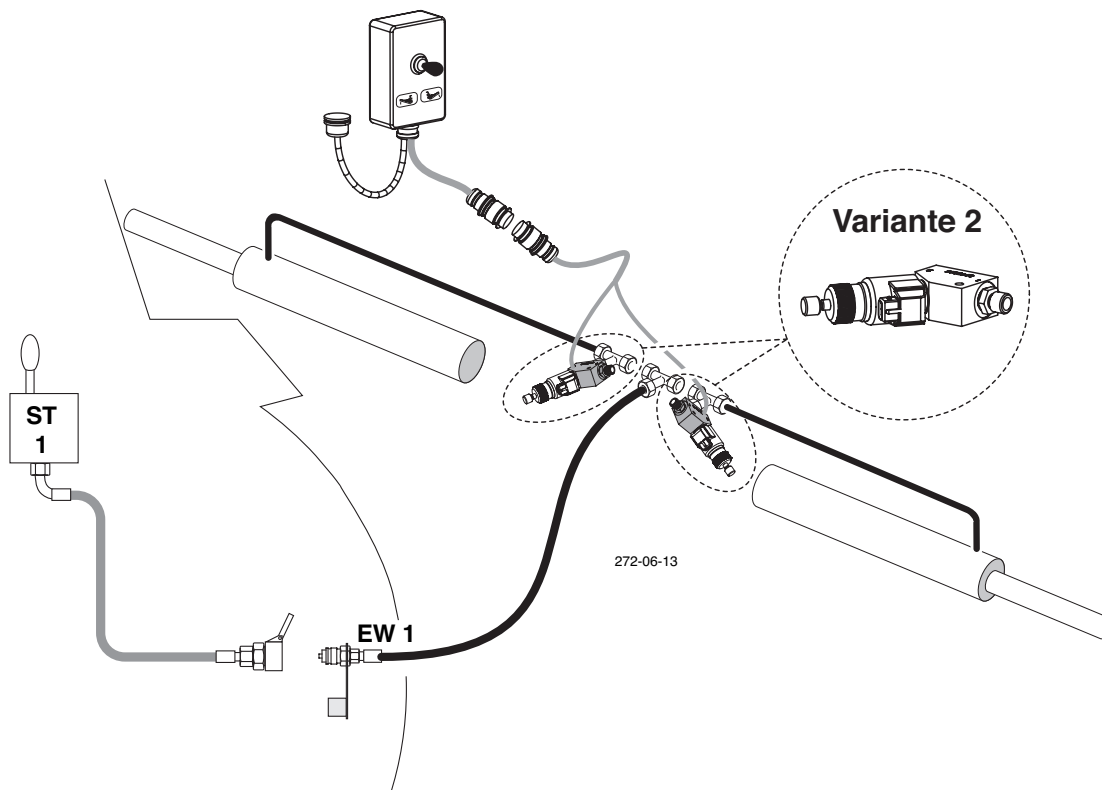
Preselection with 2-way valve.

- Both mower units are raised by activating only one control device with an open 2-way valve.
- Only one mower unit is raised with a closed 2-way valve.
 - Activate the relevant hydraulic control valve (ST1 or ST2) on the tractor.
 - The selected mower unit is raised until the field transport position is reached (FT).

DANGER

Life-threatening danger through rotating or ejected components

- The 2-way valve is located in the danger area of the mower. Switch off the drive. Wait for the mower discs to come to a standstill before changing the 2-way valve.
- Do not enter the danger zone around the mower whilst the mower discs are in motion.



Equipment on request

Option 2

Electrical preselect system

Advantages

- Only one control device is required.

Function:

- Activate the swing mower using the operating panel.
 - The indicator lamps are displayed in the operator panel when the individual lift has been activated.
 - Activate the hydraulic control valve (ST1) on the tractor.
 - The selected mower unit is raised until the field transport position is reached (FT).

Technical data

Description	NOVADISC 732 Type 3906	NOVADISC 812 Type 3907	NOVADISC 902 Type 3908
3-point hitch	Cat. II / III	Cat. II / III	Cat. II / III
Working width [m]	7.24	8.08	8.92
Folded up parking height ¹⁾ [m]	2.9	3.3	3.7
Transport height ¹⁾ [m]	3.1	3.5	3.9
No. of mowing discs	12	14	16
Number of knives per disc	2	2	2
Distance blade flight circle [m]	2.0	2.0	2.0
Coverage capacity [ha/h]	7	9	11
P.t.o. speed [min ⁻¹]	1000	1000	1000
Free-run cardan shaft	yes	yes	yes
Power requirements [kW/hp]	63 / 85	70 / 95	74 / 100
Lifting hydraulic (single-action)	yes	yes	yes
Weight ¹⁾ [kg]	1260	1400	1520
Continuous sound emission level	88.5 dB (A)	88.5 dB (A)	88.5 dB (A)

¹⁾ with folded lateral guards

All data subject to alteration without notice

Necessary connections:

- 1 single-action hydraulic plug connection
(no individual lifting possible)
- 2 single-action hydraulic plug-in connectors
(for individual lifting)
Min. pressure: 80 bar
Max. operating pressure: 180 bar

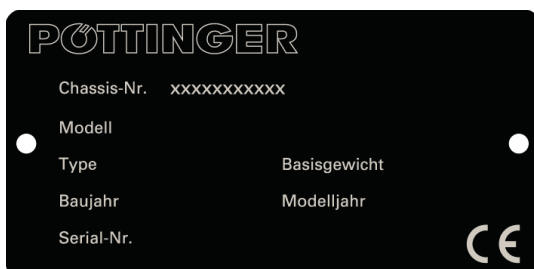
Optional equipment:

- Swath discs
- Conveying cone
- Wear skids
- High cut skids
- Parking bearings
- Electrical preselection switch
- Rotation direction of the mower bar "mountain drive" for NOVADISC 732

The designated use of the mower unit

The mower "NOVADISC 732 (Type PSM 3906), NOVADISC 812 (Type PSM 3907) and NOVADISC 902 (Type PSM 3908)" is designed exclusively for the usual agricultural works.

- The mowing of grassland and short stemmed fodder.
Any other use outside of this is regarded as not in accordance with the designated use.
The manufacturer is not liable for any damage resulting from this. The user alone bears the risk of such damage.
- Complying with the manufacturer's specified operating, service and maintenance requirements is also a designated use condition.



Type plate position

The chassis number is engraved on the type plate shown opposite. Warranty claims, enquiries and spare part orders cannot be processed without the chassis number.

Please enter the number on the title page of the Operating Instructions immediately upon accepting the vehicle / implement.

¹⁾ Weight: Possible variants depending on machine features.

SUPPLEMENT

Things will run better with
genuine Pöttinger parts

Original
inside




- **Quality and precise fitting**
 - Operating safety.
- **Reliable operation**
- **Longer lasting**
 - Economy
- **Guaranteed availability** through your Pöttinger Sales Service.

The decision must be made, "original" or "imitation"? The decision is often governed by price and a "cheap buy" can sometimes be very expensive.

Be sure you purchase the "Original" with the cloverleaf symbol!


PÖTTINGER

**TIP**

This operating manual contains this symbol at all points relating to the safety of  persons.

1.) Operating instructions

- a. The operating instructions are an important part of the machine. Make sure that the operating instructions are always on hand when operating the machine.
- b. Keep the operating instructions as long as the machine is in your possession.
- c. Pass the operating instructions on to the buyer when selling the machine or changing the operator.
- d. Make sure that all safety and warning symbols remain attached on the machine and keep them readable. The hazard warnings provide important information for a safe operation and, thus, your safety.

2.) Qualified personnel

- a. Only persons of legal age who are mentally and physically able and have been trained or familiarized accordingly is allowed to operate this machine.
- b. Persons not yet trained, familiarized or under training or in a general education must only operate this machine under the supervision of an experienced person.
- c. Inspection, setting and repair work must only be performed by authorized persons.

3.) Performing maintenance work

- a. These instructions only refer to service, maintenance and repair operations the user is able to carry out without assistance. Any work beyond this scope has to be carried out at authorized workshops only.
- b. Repairs on the electrical and hydraulic system, preloaded springs, pressure accumulators, etc. require sufficient knowledge, correct tools and protective clothing and, thus, must only be performed at authorized workshops.

4.) After maintenance work on brakes

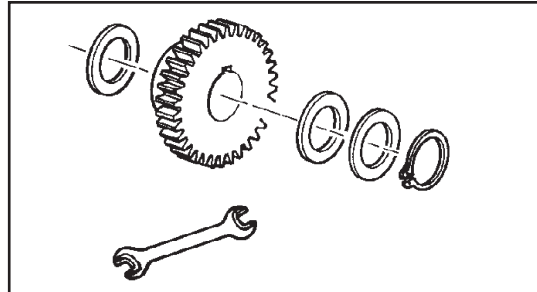
- a. After each repair of the brakes, a functional check or a test drive must be carried out to ensure that the brakes function properly. New drums or brake linings only have optimum braking effect after a few braking operations. Violent braking should be avoided.

5.) Modification work

- a. Do not undertake any unauthorised additions, modifications or alterations to the machine. This also applies to the installation and setting of safety devices as well as welding or drilling in stress-bearing parts.

6.) Appropriate use

- a. see technical data
- b. Intended use also includes compliance with the manufacturer's stipulated operating, maintenance and service conditions.

**7.) Spare parts**

- a. **Original parts and accessories** are specially designed for the machines and their equipment.
- b. We expressly draw your attention to the fact that genuine parts and accessories not supplied by us, have not been tested and approved by us.
- c. Under certain circumstances, the installation and/or use of such products may negatively modify or impair the specified structural properties of the machine. The manufacturer accepts no liability for any damage caused through the use of non-genuine parts and accessories.
- d. Unauthorised changes as well as the use of components or attachments on the machine lead to the exclusion of manufacturer's liability.

8.) Safety devices

- a. All protection devices must remain on the machine and be maintained in proper condition. Replacement of worn or damaged covers or guards is required in good time.

9.) Before starting work

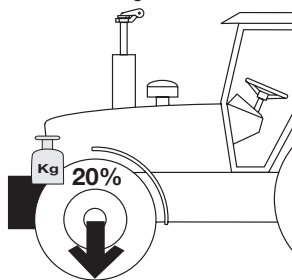
- a. Before commencing work, the operator must familiarise with all of the operating devices and functions. The learning of these is too late after having already commenced operation!
- b. Before every putting into operation check the vehicle or the implement for traffic and operating safety.

10.) Transport of people prohibited

- a. The transport of people on the machine is not permitted.
- b. The machine may only be driven on public roads when in the position stipulated for road transport.

11.) Driving ability with auxiliary equipment

- a. The towing vehicle is to be sufficiently equipped with weights at the front or at the rear in order to guarantee the steering and braking capacity (a minimum of 20% of the vehicle's tare weight on the front axle).



- b. The driving ability is influenced by the road and auxiliary equipment. The driving must be adapted to the corresponding terrain and ground conditions.
- c. When driving through curves with a connected implement, observe the radius and swinging mass of the implement!
- d. When travelling in a curve with attached or semi-mounted implements, take into account the working range and swing mass of the implement!

12.) General

- a. Before attaching implements to the three-point linkage, move system lever into a position whereby unintentional raising or lowering is ruled out!
- b. Danger of injury exists when coupling implements to the tractor!
- c. Danger of injury through crushing and cutting exists in the three-point linkage area!
- d. Do not stand between the tractor and the implement when using three-point linkage external operation!
- e. Attach and detach drive shaft only when motor has stopped.
- f. When transporting with raised implement, secure operating lever against lowering.
- g. Before leaving tractor, lower attached implement to the

ground and remove ignition key!

- h. Nobody is allowed to stand between tractor and implement without the tractor being secured against rolling using parking brake and/or wheel chocks!
- i. For all maintenance, service and modification work, turn driving motor off and remove the universal drive.

13.) Cleaning the implement

- a. Do not use high-pressure washers for the cleaning of bearing and hydraulic parts.

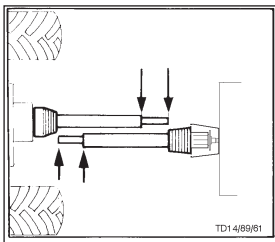
Adapting cardan shaft to tractor

NOTE

Material damage - due to inferior spare parts

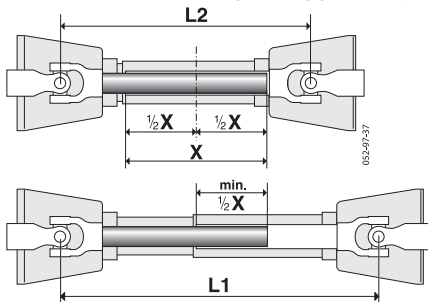
- Only use the cardan shaft supplied or stated; otherwise the warranty claims for any damage are not valid.

The correct length is determined by comparing both cardan shaft halves.



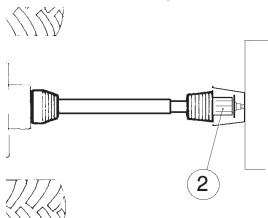
Cutting to length procedure

- To adapt the length, hold cardan shaft halves side by side in the shortest operating position (L2) and mark.



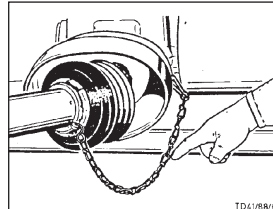
Caution!

- Note the maximum operating length (L1)
 - Try for the greatest possible tube overlap (min. 1/2 X)
- Trim the inner and outer protective tube equally
- Attach overload protection (2) to the machine!
- Always check that drive shaft locks are securely engaged before starting work.



Safety chain

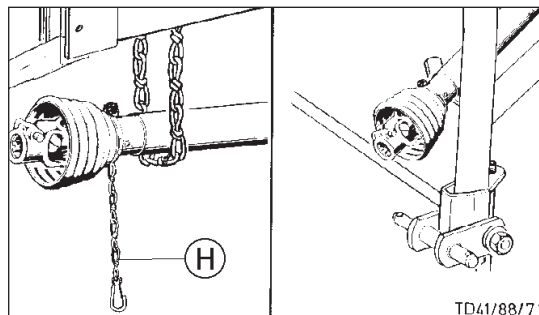
- Use chain to prevent tube guard from rotating. Ensure sufficient swivel space for the cardan shaft!
- Trim the safety chain so that it cannot wind around the cardan shaft.



Instructions for working

Do not exceed the permissible pto speed when using the machine.

- The attached machine may run-on after the pto is switched off. Work must only be performed on it once it has completely stopped.
- When parking the machine, the cardan shaft must be taken off or secured using a chain, as instructed. Do not use safety chain (H) to suspend the cardan shaft.



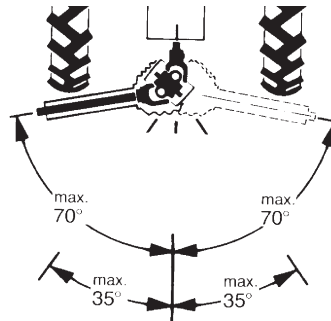
Wide-angle joint:

Maximum angle for operation and at standstill 70°.

Standard joint :

Maximum angle at standstill 90°.

Maximum angle for operation 35°.



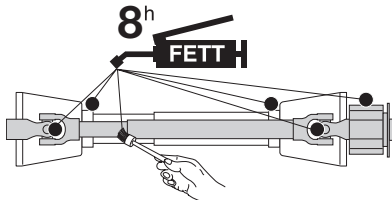
! DANGER

Mortal danger - due to worn covers

- Replace the worn covers immediately

- Lubricate with a brand-name grease before starting work and every 8 hours worked.
- Before any extended period of non-use, clean and lubricate driveshaft.

For winter working, grease the tube guards to prevent freezing.



Important for driveshafts with friction clutch

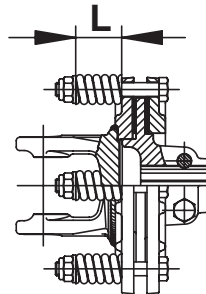
Torque is limited with overloading and brief torque peaks and evenly transferred during slipping.

Prior to initial operation and after long periods out of use, check friction clutch for proper function.

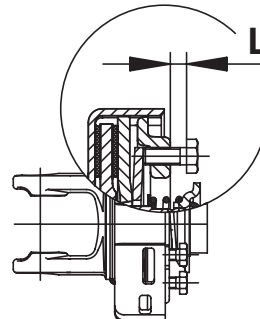
- Measure dimension „L“ at compression spring of K90, K90/4 and K94/1 or at set screw of K92E and K92/4E.
- Loosen screws to release the pressure on the friction disk.
Slip the clutch.
- Tighten set screws to dimension "L".

Clutch is ready for use.

K90, K90/4, K94/1



K92E, K92/4E



Lubrication chart

X^h after every X hours operation

40 F all 40 loads

80 F all 80 loads

1 J once a year

100 ha every 100 hectares

BB if necessary



GREASE



Oil

1

=

Number of grease nipples

1

=

Number of grease nipples

(III), (IV)

see supplement „Lubrificants“

[l]

Litre

— — — —

Variation



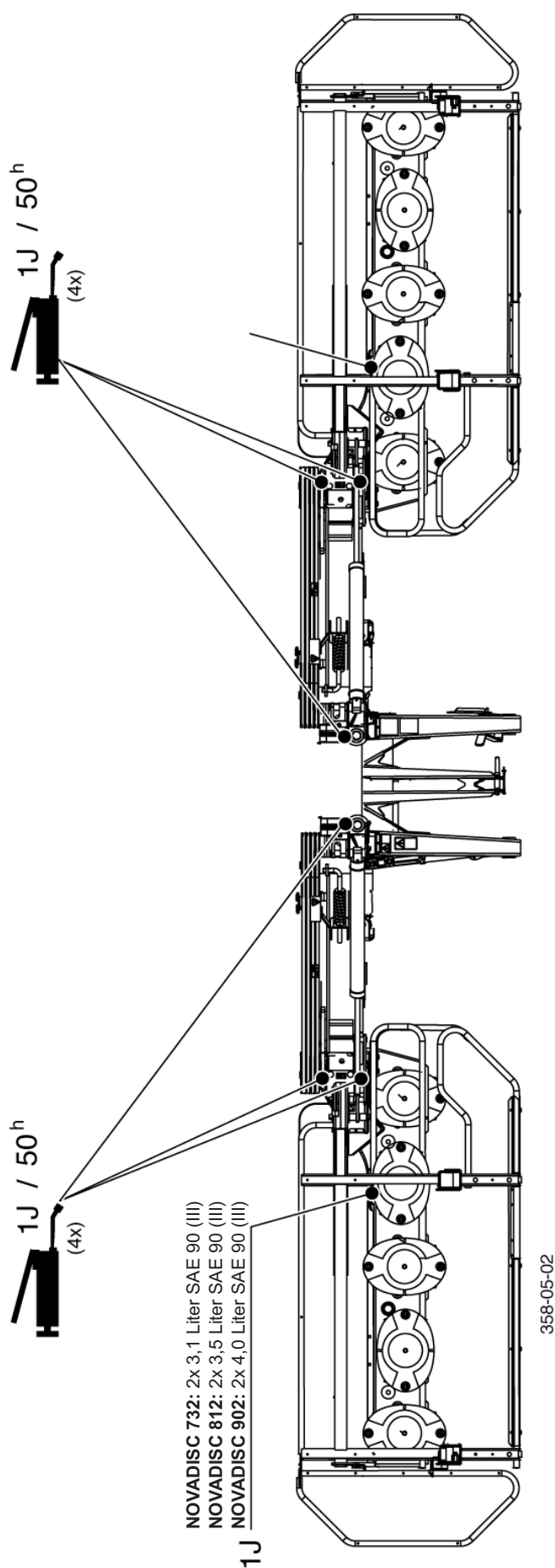
See manufacturer's instructions



Rotations per minute



Always screw in measuring stick up to stop.



Edition 2013




The performance and the lifetime of the farm machines are highly depending on a careful maintenance and application of correct lubricants. our schedule enables an easy selection of selected products. The applicable lubricants are symbolized (eg. "III"). According to this lubricant product code number the specification, quality and brandname of oil companies may easily be determined. The listing of the oil companies is not said to be complete.




Gear oils according to operating instructions - however at least once a year.




- Take out oil drain plug, let run out and duly dispose waste oil.

Before garaging (winter season) an oil change and greasing of all lubricating points has to be done. Unprotected, blanc metal parts outside (joints, etc.) have to be protected against corrosion with a group "IV" product as indicated on the reverse of this page.

Corrosion protection: Fluid 466

Lubricant indicator	I				V	VI	VII
required quality / level niveau	HYDRAULIKÖL HLP DIN 51524 Teil 2	motor oil SAE 30 according to API CD/SF	gearoil, SAE 90 resp. SAE 85 W-140 according to API-GL 4 or API-GL 5	lithium grease	transmission grease	complex grease	gear oil SAE 90 resp. SAE 85 W-140 according to API-GL 5
	See notes: * ** ***						

Company	I				V	VI	VIII	NOTATIONS
AGIP	OSO 32/46/68 ARNICA 22/46	MOTOROIL HD 30 SIGMA MULTI 15W-40 SUPER TRACTOROIL UNIVERS. 15W-30	ROTRA HY 80W-90/85W-140 ROTRA MP 80W-90/85W-140	GR MU 2	GR SLL GR LFO	-	ROTRA MP 80W-90 ROTRA MP 85W-140	* The international specification J 20 A is necessary for compound operation with wet brake tractors. ** HLP-(D) + HV hydraulic oils *** HLP + HV hydraulic oils with a vegetable oil basis, biodegradable and therefore environmentally friendly.
ARAL	VITAM GF 32/46/68 VITAM HF 32/46	SUPER KOWAL 30 MULTI TURBORAL SUPER TRAKTORAL 15W-30	GETRIEBEÖL EP 90 GETRIEBEÖL HYP 85W-90	ARALUB HL 2	ARALUB FDP 00	ARALUB FK 2	GETRIEBEÖL HYP 90	
AVIA	AVILUB RL 32/46 AVILUB VG 32/46	MOTOROIL HD 30 MULTIGRADE HDC 15W-40 TRACTAVIA HF SUPER 10 W-30	GETRIEBEÖL MZ 90 M MULTIHYP 85W-140	AVIA MEHRZWECKFETT AVIA ABSCHMIERFETT	A V I A L U B GETRIEBEFLEISSFETT	A V I A L U B SPEZIALFETT LD	GETRIEBEÖL HYP 90 EP MULTIHYP 85W-140 EP	** HLP-(D) + HV hydraulic oils *** HLP + HV hydraulic oils with a vegetable oil basis, biodegradable and therefore environmentally friendly.
BAYWA	HYDRAULIKÖL HLP 32/46/68 SUPER 2000 CD-MC* HYDRA HYDR. FLUID * HYDRAULIKÖL MC 530 ** PLANTOHYD 40N ***	SUPER 2000 CD-MC SUPER 2000 CD HD SUPERIOR 20 W-30 HD SUPERIOR SAE 30	SUPER 8090 MC HYPOID 80W-90 HYPOID 85W-140	MULTI FETT 2 SPEZIALFETT FLM PLANTOGEL 2 N	GETRIEBEFLEISSFETT NLGI 0 RENOLIT DURAPLEX EP 00 PLANTOGEL 00N	RENOPLEX EP 1	HYPOID 85W-140	
BP	ENERGOL SHF 32/46/68	VISCO 2000 ENERGOL HD 30 VANELLUS M 30	GEAR OIL 90 EP HYPOGEAR 90 EP	ENERGREASE LS-EP 2	FLIESSFETT NO ENERGREASE HTO	OLEX PR 9142	HYPOGEAR 90 EP HYPOGEAR 85W-140 EP	
CASTROL	HYSPINAW 32/46/68 AWH 32/46	RX SUPER DIESEL 15W-40 POWERTRANS	EPX 80W-90 HYPOY C 80W-140	CASTROL GREASE LM	IMPERVIA MMO	CASTROL GREASE LMX	EPX 80W-90 HYPOY C 80W-140	
ELAN	HLP 32/46/68 HLP-M M32/M46	MOTORÖL 100 MS SAE 30 MOTORÖL 104 CM 15W-40 AUSTRORAC 15W-30	GETRIEBEÖL MP 85W-90 GETRIEBEÖL B 85W-90 GETRIEBEÖL C 85W-90	LORENA 46 LITORA 27	RHENOX 34	-	GETRIEBEÖL B 85W-90 GETRIEBEÖL C 85W-140	
ELF	OLNA 32/46/68 HYDREL F 46/68	PERFORMANCE 2 B SAE 30 8000 TOURS 20W-30 TRACTORELF ST 15W-30	TRANSELF TYP B 90 85W-140 TRANSELF EP 90 85W-140	EPEXA 2 ROLEXA 2 MULTI 2	GA O EP POLY G O	MULTIMOTIVE 1	TRANSELF TYP B 90 85W-140 TRANSELF TYP BLS 80 W-90	
ESSO	NUTO H 32/46/68 NUTO HP 32/46/68	PLUS MOTORÖL 20W-30 UNIFARM 15W-30	GEAR OIL GP 80W-90 GEAR OIL GP 85W-140	MULTI PURPOSE GREASE H	FIBRAX EP 370	NEBULA EP 1 GP GREASE	GEAR OIL GX 80W-90 GEAR OIL GX 85W-140	
EVVA	ENAK HLP 32/46/68 ENAK MULTI 46/68	SUPER EVVAROL HD/BSAE 30 UNIVERSAL TRACTOROIL SUPER	HYPOID GA 90 HYPOID GB 90	HOCHDRUCKFETT LT/ SC 280	GETRIEBEFETT MO 370	EVVA CA 300	HYPOID GB 90	
FINA	HYDRAN 32/46/68	DELTA PLUS SAE 30 SUPER UNIVERSAL OIL	PONTONIC N 85W-90 PONTONIC MP 85W-90 85W-140 SUPER UNIVERSAL OIL	MARSON EP L 2	NATRAN 00	MARSON AX 2	PONTONIC MP 85W-140	
FUCHS	TITAN HYD 1030 • AGRIFARM STOU MC 10W-30 • TITAN UNIVERSAL HD • AGRIFARM STOU MC 10W-30 • AGRIFARM UTTO MP • PLANTOHYD 40N ***	• AGRIFARM STOU MC 10W-30 • TITAN UNIVERSAL HD	• AGRIFARM GEAR 80W90 • AGRIFARM GEAR 85W-140 • AGRIFARM GEAR LS 90	• AGRIFARM HITEC 2 • AGRIFARM PROTEC 2 • RENOLIT MP • RENOLIT FLM 2 • PLANTOGEL 2-N	• AGRIFARM FLOWTEC 000 • RENOLIT SO-GFO 35 • RENOLIT DURAPLEX EP 00 • PLANTOGEL 00N	• RENOLIT DURAPLEX EP 1	• AGRIFARM GEAR 8090 • AGRIFARM GEAR 85W-140 • AGRIFARM GEAR LS90	
GENOL	HYDRAULIKÖL HLP 32/46/68 HYDRAMOT 1030 MC * HYDRAULIKÖL 520 ** PLANTOHYD 40N ***	MULTI 2030 2000 TC HYDRAMOT 15W-30 HYDRAMOT 1030 MC	GETRIEBEÖL MP 90 HYPOID EW 90 HYPOID 85W-140	MEHRZWECKFETT SPEZIALFETT GLM PLANTOGEL 2 N	GETRIEBEFLEISSFETT PLANTOGEL 00N	RENOPLEX EP 1	HYPOID EW 90 HYPOID 85W-140	
MOBIL	DTE 22/24/25 DTE 13/15	HD 20W-20 DELVAC 1230 SUPER UNIVERSAL 15W-30	MOBILUBE GX 90 MOBILUBE HD 90 MOBILUBE HD 85W-140	MOBILGREASE MP	MOBILUX EP 004	MOBILPLEX 47	MOBILUBE HD 90 MOBILUBE HD 85W-140	
RHG	RENOLIN B 10/15/20 RENOLIN B 32 HV/46 HV	EXTRA HD 30 SUPER HD 20 W-30	MEHRZWECKGETRIEBEÖL SAE 90 HYPOID EW 90	MEHRZWECKFETT RENOLIT MP DURAPLEX EP	RENOSOD GFO 35	RENOPLEX EP 1	HYPOID EW 90	

Company	I				V	VI	VIII	NOTATIONS
SHELL	TELLUS32/S46/S68 TELLUS T 32/T46	AGROMA 15W-30 ROTELLA X 30 RIMULA X 15W-40	SPIRAX 90 EP SPIRAX HD 90 SPIRAX HD 85/140	RETINAX A ALVANIA EP 2	SPEZ. GETRIEBEFETT H SIMMIA GREASE O	AEROSHELL GREASE 22 DOLIUM GREASE R	SPIRAX HD 90 SPIRAX HD 85W-140	* The international specification J 20 A is necessary for compound operation with wet brake tractors.
TOTAL	AZOLLAZS32,46,68EQUIVIS ZS 32, 46, 68	RUBIA H 30 MULTAGRI TM 15W-20	TOTAL EP 85W-90 TOTAL EP B 85W-90	MULTIS EP 2	MULTIS EP 200	MULTIS HT 1	TOTAL EP B 85W-90	** HLP-(D) + HV hydraulic oils
VALVOLINE	ULTRAMAX HLP 32/46/68 SUPER TRAC FE 10W-30* ULTRAMAX HVLP 32** ULTRAPLANT 40***	SUPER HPO 30 STOU 15W-30 SUPER TRAC FE 10W-30 ALL FLEET PLUS 15W-40	HP GEAR OIL 90 oder 85W-140 TRANS GEAR OIL 80W-90	MULTILUBE EP 2 VAL-PLEX EP 2 PLANTOGEL 2 N	RENOLIT LZR 000 DEGRALUB ZSA 000	DURAPLEX EP 1	HP GEAR OIL 90 oder 85W-140	*** HLP + HV hydraulic oils with a vegetable oil basis, biodegradable and therefore environmentally friendly.
VEEDOL	ANDARIN 32/46/68	HD PLUS SAE 30	MULTIGRADE SAE 80/90 MULTIGEAR B 90 MULTIGEAR C SAE 85W-140	MULTIPURPOSE	-	-	MULTIGEAR B 90 MULTI C SAE 85W-140	
WINTERSHALL	WOLAN HS (HG) 32/46/68 WOLAN HVG 46** WOLAN HR 32/46*** HYDROFLUID*	MULTI-REKORD 15W-40 PRIMANOL REKORD 30	HYPOID-GETRIEBEÖL 80W-90, 85W-140 MEHRZWECKGETRIEBEÖL 80W-90	WOLUB LFP 2	WOLUB GFW	WOLUB AFK 2	HYPOID-GETRIEBEÖL 80W-90, 85W-140	
MOTOREX	COREX HLP 32 46 68** COREX HLPD 32 46 68** COREX HV 32 46 68** OEKOSYNT 32 46 68***	EXTRA SAE 30 FARMER TRAC 10W/30	GEAR OIL UNIVERSAL 80W/90 GEAR OIL UNIVERSAL 85W/140	FETT 176 GP FETT 190 EP FETT 3000	FETT 174	FETT 189 EP FETT 190 EP FETT 3000	GEAR OIL UNIVERSAL 80W/90 GEAR OIL UNIVERSAL 85W/140	

Taper bushes installation instructions

To assemble

1. Clean and degrease the bore and taper surfaces of the bush and the tapered bore of the pulley.
2. Insert the bush in the pulley hub and line up the holes (half thread holes must line up with half straight holes).
3. Lightly oil the grub screws (bush size 1008 to 3030) or the cap screws (bush size 3535 to 5050) and screw them in, do not tighten yet.
4. Clean and degrease the shaft. Fit pulley with taper bush on shaft and locate in desired position.
 - When using a key it should first be fitted in the shaft Keyway. There should be a top clearance between the key and the keyway in the bore.
 - Using a hexagon socket wrench (DIN 911) gradually tighten the grub/cap screws in accordance with the torques as listed in the schedule of screw tightening torques

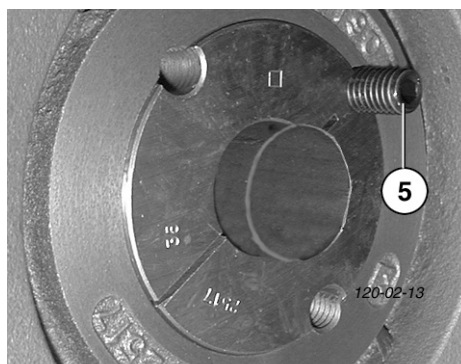
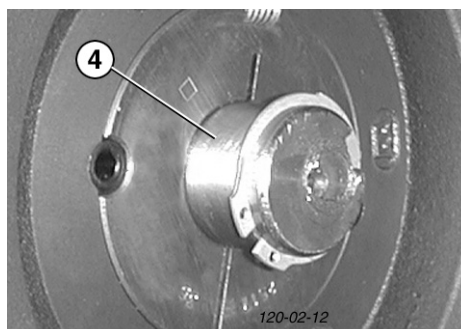
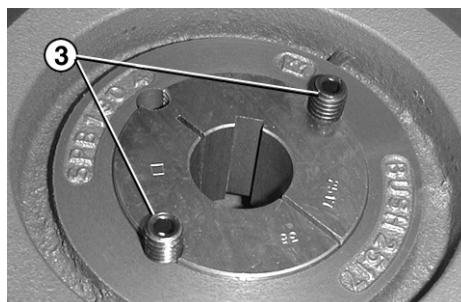
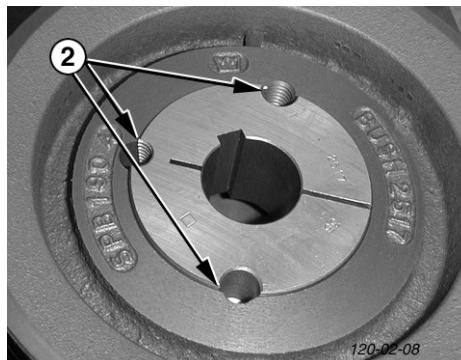
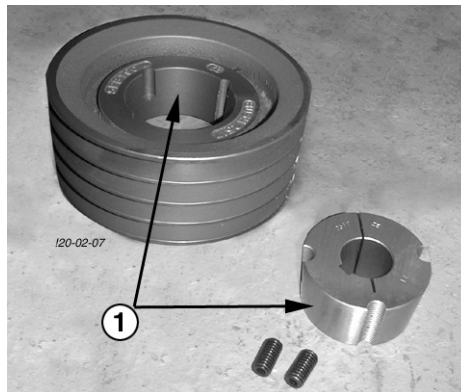
Bush identifier	Torque [Nm]
2017	30
2517	49

- When the drive has been operating under load for a short period (half to one hour) check and ensure that the screws remain at the appropriate tightening torque.
- In order to eliminate the ingress of dirt fill all empty holes with grease.

Removal

1. Slacken all screws. Depending on the size of the bush remove one or two.

After oiling point and thread of grub screws or under head and thread of cap screws insert them into the jacking off hole(s) in bush (Pos. 5).
2. Tighten screw(s) uniformly and alternately until the bush is loose in the hub and pulley is free on the shaft.
3. Remove pulley bush assembly from shaft.



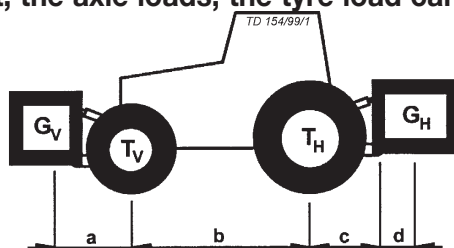
Combination of tractor and mounted implement

! DANGER

Life hazard or material hazard - due to overload on tractor or wrong tractor ballast distribution.

- Make sure that hitching the implement (in the front and rear three-point linkage) does not lead to exceeding the maximum total admissible weight of the tractor, the axle loads or the load capacity of the tyres. The front axle of the tractor must always be loaded with at least 20 % of the unladen weight of the tractor.
- Make sure before buying an implement that these conditions are fulfilled by carrying out the following calculations or by weighing the tractor/implement combination.

Determination of the total weight, the axle loads, the tyre load carrying capacity and the necessary minimum ballasting.



For the calculation you need the

following data:

T_L [kg]	unladen weight of tractor	1	a [m]	distance from centre of gravity for combined front mounted implement/front ballast to front axle centre	2 3
T_V [kg]	front axle load of unladen tractor	1			
T_H [kg]	rear axle load of unladen tractor	1	b [m]	Tractor wheelbase	1 3
G_H [kg]	combined weight of rear mounted implement/rear ballast	2	c [m]	distance from rear axle centre to centre of lower link balls	1 3
G_V [kg]	combined weight of front mounted implement/front ballast	2	d [m]	distance from centre of lower link balls to centre of gravity for combined rear mounted implement/rear ballast	2

- 1 see instruction handbook of the tractor
 2 see price list and/or instruction handbook of the implement
 3 to be measured

Rear hitched implement resp. front-rear combinations

1. CALCULATION OF MINIMUM BALLASTING AT THE FRONT $G_{V \min}$

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

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

Front mounted implement

2. CALCULATION OF THE MINIMUM BALLASTING REAR $G_{H \min}$

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

$$G_{H \min} = \frac{G_V \cdot a - T_H \cdot b + 0,45 \cdot T_L \cdot b}{b + c + d}$$

3. CALCULATION OF THE REAL FRONT AXLE LOAD $T_{V\text{tat}}$

(If the front hitched implement (G_V) does not reach the minimum required ballasting Front ($G_{V\text{min}}$), the weight of the front hitched implement must be increased to the minimum ballasting Front!)

$$T_{V\text{tat}} = \frac{G_V \cdot (a + b) + T_V \cdot b - G_H \cdot (c + d)}{b}$$

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

4. CALCULATION OF THE REAL TOTAL WEIGHT G_{tat}

(If the rear hitched implement (G_H) does not reach the minimum required ballasting Rear ($G_{H\text{min}}$), the weight of the rear hitched implement must be increased to the minimum ballasting Rear!)

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

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

5. CALCULATION OF THE REAL REAR AXLE LOAD $T_{H\text{tat}}$

Record the calculated real and the permissible rear axle load given in the instruction handbook for the tractor into the table.

6. TYRE LOAD CAPACITY

$$T_{H\text{tat}} = G_{\text{tat}} - T_{V\text{tat}}$$

Record double the value (two tyres) of the permissible load carrying capacity into the table (see for instance documentation provided by the tyre manufacturer).

Table

	Real value according to calculation	Permissible value according to instruction handbook	Double permissible tyre load capacity (two tyres)
Minimum ballasting Front / rear	<div style="border: 1px solid black; padding: 5px; display: inline-block;">/ kg</div>	---	---
Total weight	<div style="border: 1px solid black; padding: 5px; display: inline-block;">kg</div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">kg</div>	---
Front axle load	<div style="border: 1px solid black; padding: 5px; display: inline-block;">kg</div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">kg</div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">kg</div>
Rear axle load	<div style="border: 1px solid black; padding: 5px; display: inline-block;">kg</div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">kg</div>	<div style="border: 1px solid black; padding: 5px; display: inline-block;">kg</div>

The minimum ballasting has to be attached to the tractor either in form of a mounted implement or ballasting weight!

The calculated values must be less or equal (<) the permissible values!



EC Conformity Declaration

Original Conformity Declaration

Name and address of the manufacturer:

**PÖTTINGER Landtechnik GmbH
Industriegelände 1
AT - 4710 Grieskirchen**

Machine (interchangeable equipment):

mower Type Serial no.	NOVADISC 732	812	902
	3906	3907	3908

The manufacturer declares that the machines adhere to all relevant provisions in the following directive:

machinery 2006/42/EG

In addition to this, the manufacturer also declares adherence to the other following directives and/or relevant provisions

Source of applied, harmonised norms:

EN ISO 12100

EN ISO 4254-1

EN ISO 4254-12

Source of applied miscellaneous technical norms and / or specifications:

Person responsible for documentation:

Martin Baumgartner
Industriegelände 1
A-4710 Grieskirchen

A handwritten signature in black ink, appearing to be "MB", written over a horizontal line.

Markus Baldinger,
CTO R&D

A handwritten signature in black ink, appearing to be "JL", written over a horizontal line.

Jörg Lechner,
CTO Production

Grieskirchen,
02.04.2020



Im Zuge der technischen Weiterentwicklung arbeitet die PÖTTINGER Landtechnik GmbH ständig an der Verbesserung ihrer Produkte.

Änderungen gegenüber den Abbildungen und Beschreibungen dieser Betriebsanleitung müssen wir uns darum vorbehalten, ein Anspruch auf Änderungen an bereits ausgelieferten Maschinen kann daraus nicht abgeleitet werden.

Technische Angaben, Maße und Gewichte sind unverbindlich. Irrtümer vorbehalten.

Nachdruck oder Übersetzung, auch auszugsweise, nur mit schriftlicher Genehmigung der

PÖTTINGER

Landtechnik GmbH

A-4710 Grieskirchen.

Alle Rechte nach dem Gesetz des Urheberrecht vorbehalten.



PÖTTINGER

Landtechnik GmbH

Industriegelände 1

A-4710 Grieskirchen

Telefon: +43 7248 600-0

Telefax: +43 7248 600-2513

e-Mail: info@poettinger.at

Internet: <http://www.poettinger.at>

PÖTTINGER Deutschland GmbH

Verkaufs- und Servicecenter Hörstel

Gutenbergstraße 21

D-48477 Hörstel

Telefon: +49(0)5459/80570 - 0

e-Mail: hoerstel@poettinger.at

PÖTTINGER Deutschland GmbH

Servicecenter Deutschland Landsberg

Justus-von-Liebig-Str. 6

D-86899 Landsberg am Lech

Telefon: +49 8191 9299-0

e-Mail: landsberg@poettinger.at

Pöttinger France S.A.R.L.

129 b, la Chapelle

F-68650 Le Bonhomme

Tél.: +33 (0) 3 89 47 28 30

e-Mail: france@poettinger.at