Operator‘s manual

Translation of the original Operating Manual

Nr. **99+3552.EN.80Q.0**

Chassis Nr.

Drum mower

EUROCAT 271 classic

(Model PSM 3542 : + . . 01001**)**

EUROCAT 311 classic

(Model PSM 3552 : + . . 01001**)**

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.

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.

A confirmation is required to verify that the machine and operating instructions have been handed over correctly.

For this purpose

- **Document A** is to be signed and returned to Pöttinger or via the internet to www.poettinger.at
- **Document B** remains with the specialist dealer handing over the machine.
- **The customer receives document C**.

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.

(EN) INSTRUCTIONS FOR PRODUCT DELIVERY

Dokument D

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

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

Please check. [X]

- ❑ Machine checked according to delivery note. All attached parts removed. All safety equipment, drive shaft and operating devices at hand.
- ❑ Operation and maintenance of machine and/or implement according to operating instructions explained to the customer.
- ❑ Tyres checked re. correct pressure.
- ❑ Wheel nuts checked re. tightness.
- ❑ Drive shaft cut to correct lenght.
- ❑ Correct power-take-off speed indicated.
- ❑ Fitting to tractor carried out: to three-point linkage
- ❑ Trial run carried out and no defects found.
- ❑ Functions explained during trial run.
- ❑ Pivoting in transporting and operating position explained.
- ❑ Information given re. optional extras.
- ❑ Absolute need to read the operating manual indicated.

In order to prove that the machine and the operating manual have been properly delivered, a confirmation is necessary.
For this purpose please do the following:

- sign the **document A** and send it to the company Pöttinger or via the internet to www.poettinger.at
- **document B** stays with the specialist factory delivering the machine.
- **document C** stays with the customer.

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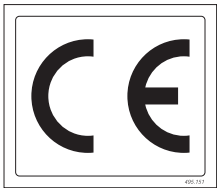
CE sign



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

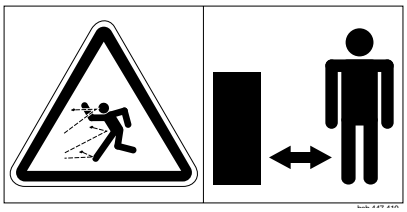
EU Declaration of Conformity (see supplement)

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

Recommendations for work safety

All points referring to satety in this manual are indicated by this sign.

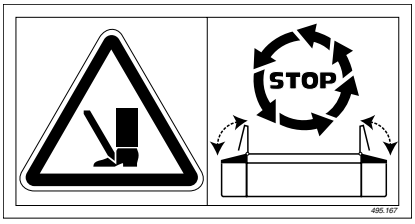
Meaning of warning signs



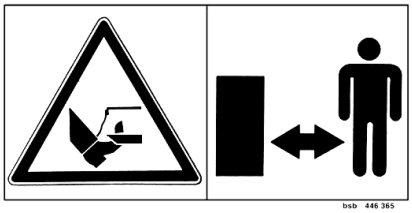
Danger - flying objects; keep safe distance from the machine as long as the engine is running.

Stay clear of swinging area of implements

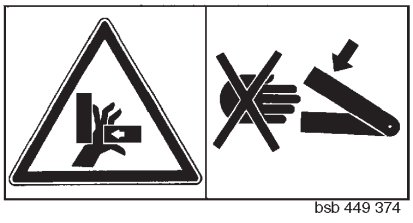
Wait until all machine components have stopped completely before touching them.



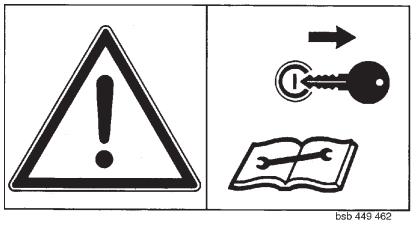
Close both side protective coverings before engaging p.t.o..



Stay clear of mower knife area as long as tractor engine is running with PTO connected.



Never reach into the crushing danger area as long as parts may move.



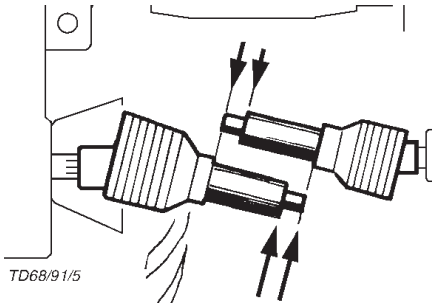
Shut off engine and remove key before performing maintenance or repair work.

Attaching in general

1. Observe safety tips in supplement A.
2. Attach the machine to the tractor's front lifting gear.
   - Secure locking bolts with linch pins.

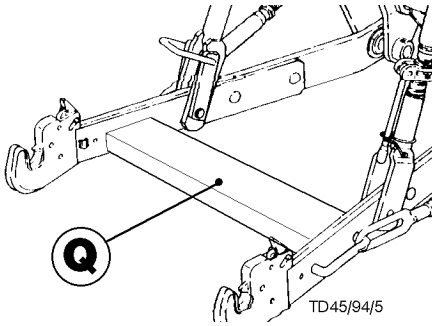
Cardan shaft

- The cardan shaft is to be checked before first use and adapted if necessary (see Chapter "Adapting the cardan shaft" in Attachment B).



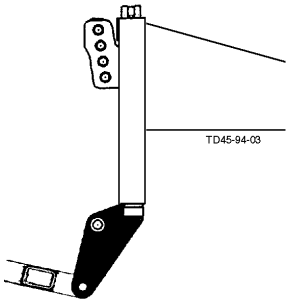
Attaching problems

When using lifting gear with a crosspiece between the lower links, damage could occur to the cardan shaft when lowering the attached machine.



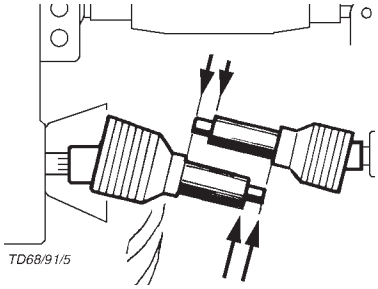
In order to prevent damage an extra elevator unit is to be installed between the Weiste-triangle and the lifting gear.

In a case such as this please contact our Customer Service Dept.



On tractors where the PTO shaft stub is very far forward, the PTO shaft would have to be considerably shortened.

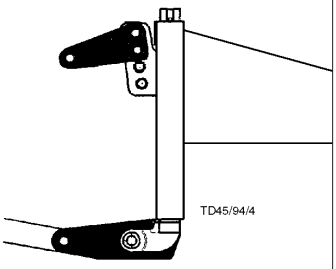
- When the machine is raised, there is insufficient casing to over the cardan shaft.



- The maximum universal-joint angle of deviation will possibly be exceeded (see Supplement B also).

  In this case, an accessory kit is necessary which positions the machine approx. 200 mm forward.

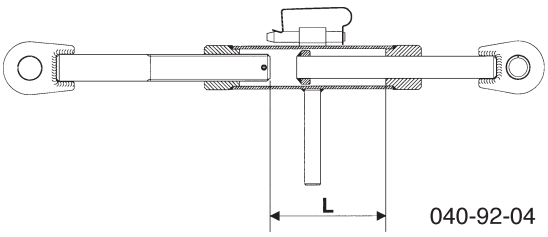
  In such a case, please contact our Customer Service Dept.



Telescopic upper link

The telescopic upper link enables mower drums to adapt well to uneven ground surfaces that run across the direction of travel.

- The swing range (L) can be adjusted by turning the spindle.
- Shorten upper link, see supplement D



Attention!

The following source of danger exists with double-acting tractor front linkages: The maximum mower lowering depth is set with limiting chains. If the lifting gear exceeds the maximum set lowering depth then load is placed on the limiting chains.

This can lead to the chain or the linch pin breaking and danger of injury exists for persons standing in the danger are!

Note:

No support stands are required to securely park the mowing unit with swath former!

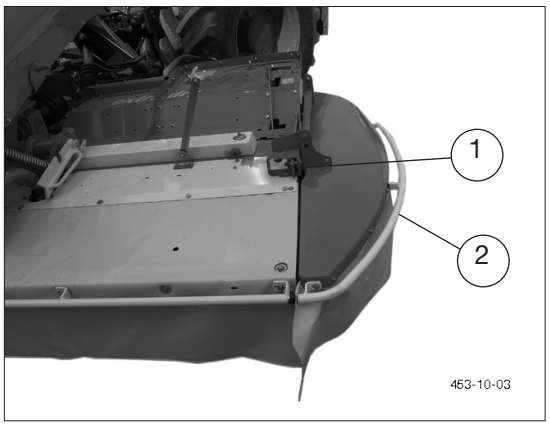
Side guard

Guard plates and protective aprons can be raised when maintenance work is to be done.

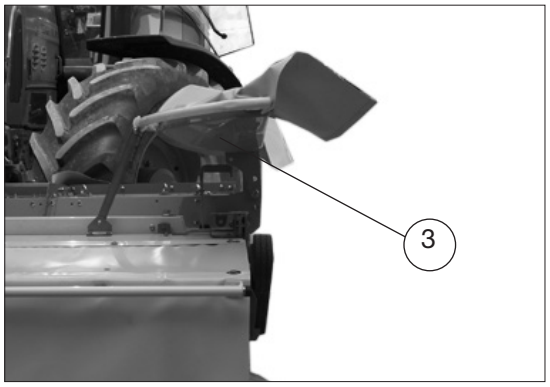
Attention!

For safety reasons it is necessary to wait for mowing disks to stop completely before raising and securing guard plates.

1. Loosen locking mechanism (1) and swing protection (2) up.



- Engage protective frame in holder (3)
- Left and right



Hydraulic side guards

Attention!

Danger of crushing when raising side protection hydraulically!

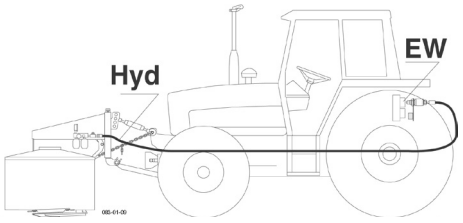
As an optional extra, raising the side protection hydraulically can be carried out using the tractor's servo.

This would eliminate the necessity of releasing or latching a locking device.

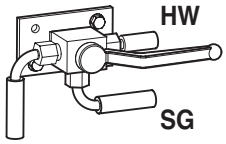
Solving problems with hydraulic connection

The hydraulic side guard requires a double-acting system. If the tractor has no hydraulic connection at the front, then two hydraulic hoses must be run from the rear to the front.

A three-way tap for switching between the front lifting



gear (HW) and front control device (SG) may be necessary with some tractors.



Attention!

Swing side protection down before starting work!

Attention!

Check side protection for correct function, working position and condition before every operation.

Any defective parts on the safety equipment must be replaced immediately.

The manufacturer is not responsible for any manipulation and inappropriate use of safety equipment.

Attention!

Entering the safety equipment area is not permitted!

Transport width

When both safety devices are swivelled up and secured in the catch (3), the consequent width (X) is:

	EUROCAT 271 Type 3542	EUROCAT 311 Type 3552
Width (X)	2.65 m	3 m

Road Transport

- Observe the statutory regulations for your country/state.

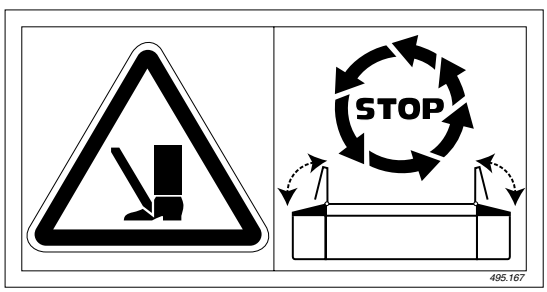
  Supplement C contains information on attaching a lighting system, valid for Germany.
- It is only permitted to drive on public roads as described in the chapter "Transport position".
- Secure the hydraulic lower link (U) so that machine cannot swing out sideways.

Working position

Before commencing work

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

For safety reasons, mowing may only be carried out in this position.



Set the ground bearing load of the mower bar

Adjustment information

- The mowing bar should weigh 150kg resting on the ground (75kg left and right).

  As the total weight of the mowing unit is higher, a corresponding weight relief must be set.

  For this purpose, a mowing unit with swath discs is equipped with two tension springs, which must be pre-tensioned accordingly.

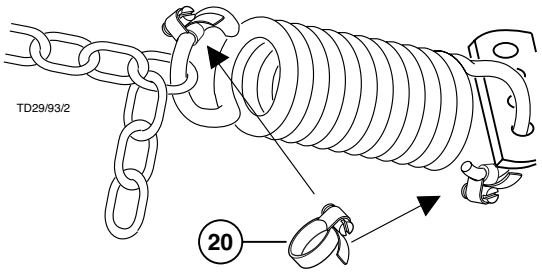
Set spring tension

1. Lift implement hydraulically
2. Hook tension spring on headstock arm (1) and on relief spring bracket (20) to tractor.

3. Lower implement to the ground.
4. Use the chain to set the spring tension to a ground contact load of the cutter bar of approx. **150 kg** (left and right approx. 75 kg).
5. The optimal force angle of 20 - 22° can only be maintained when springs are secured to a bracket.
6. Fit the hose clamps (20) onto the tension springs.

Doing this means that spring tension does not have to be checked every time unit is attached to tractor.

When changing the tractor, the spring preload must be checked and readjusted if necessary.



Pay particular attention before initial attachment to Tractor!

Note!

For front lifting gear with double-action hydraulic cycle (danger of damage)!

Remedy:

- Switch control valve to single-action
- Convert front lifting gear to single-action function (bypass line) through a specialist work shop

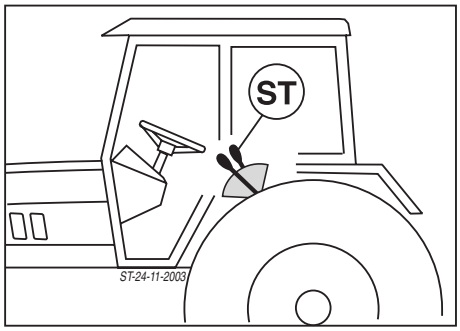
- **When the mower is attached to the tractor, the the hydraulic control (ST) must not be set at „Lower“.**
- **Immediately after such an operating error, reset the adjustable plate (P1). Replace damaged parts beforehand.**

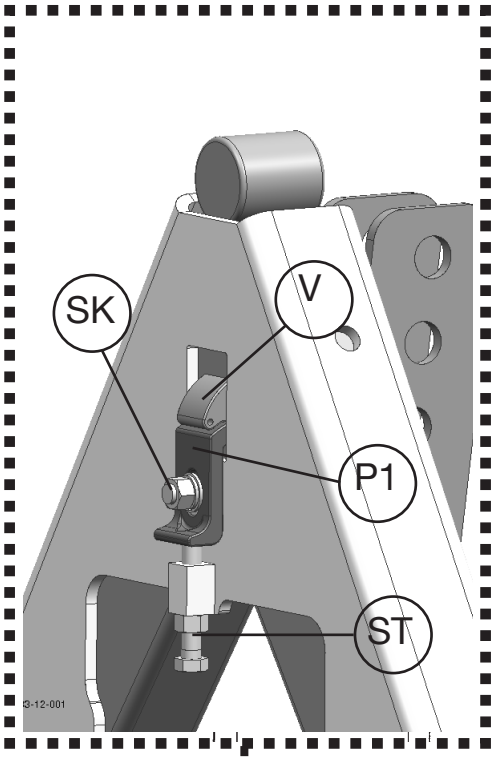
The following could happen after an operating error:

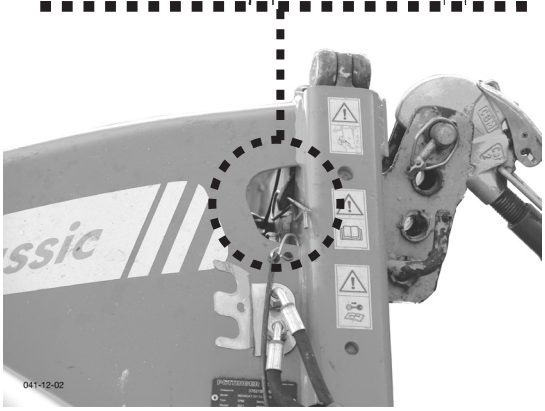
- the position of the plate (P1) has changed in the slot; the gap to the locking hook (V) is therefore too great,
- the locking hook (V) breaks,
- both levers on the load relieving unit become damaged.
- The limiting chains can snap.

Reset the adjustable plate (P1)

1. Loosen nut (SK) enough so that plate (P1) position can be altered using setscrew (ST).
2. Couple the mower to the tractor´s lifting gear
3. Position the adjustable plate (P1) so that the locking hook (V) can still be unlatched.The gap to the hook should be as narrow as possible.
4. Uncouple the mower from the tractor´s lifting gear.
5. Tighten screws (SK) to **65 Nm**.







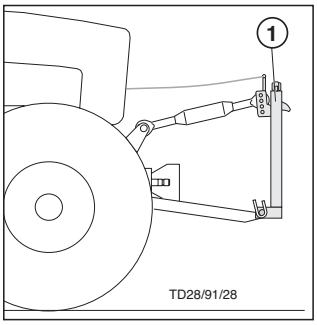
Beware!

The following danger source exists with double action front lifting devices on tractors: The maximum mower unit lowering depth is set with limiting chains. If the lifting gear exceeds the maximum set lowering depth then load is placed on the limiting chains.

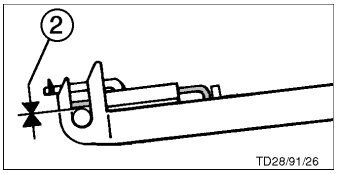
This can lead to the chain or the linch pin breaking and danger of injury exists for persons standing in the danger are!

Snap Connector (1)

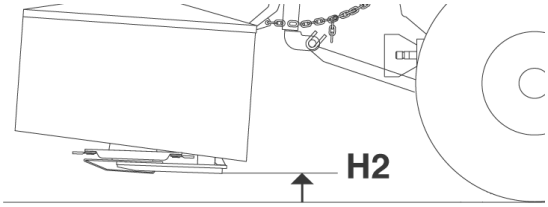
1. Mount snap connector (Weiste triangle) onto the front lifting gear in a vertical position or inclined slightly forward.



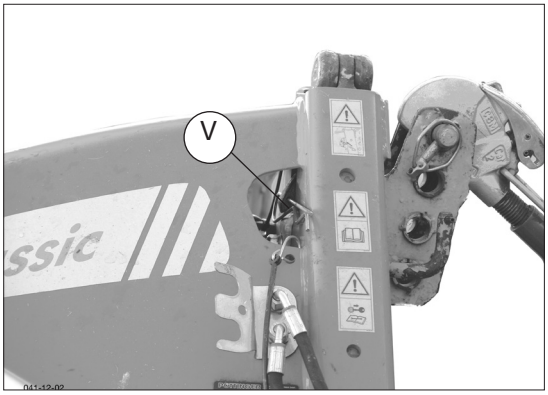
2. Lock lower link bolts (2) so that they are free from play.



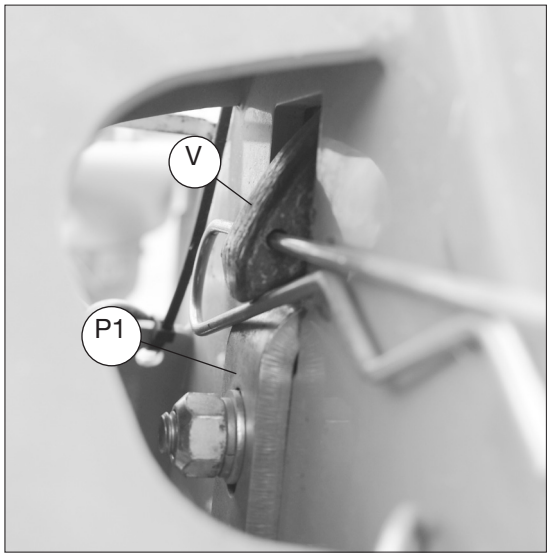
3. Connect and lift mower unit (H2).



4. Secure locking clamp (V) with cotter pin.



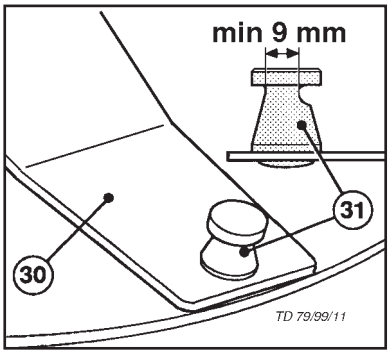
- Check the position of the adjustable plate (P1).
  The gap to the hook should be as narrow as possible.



5. Fit drive shaft.

Safety advice

1. Check



- wear and tear on blade bolts (31). If bolt thickness is < 9mm then exchange blade holder.
- blade holder (30) for damage.
- when grinding noises are heard, see if the blade holder is bent causing the blade to sit incorrectly.

2. Switch machine on only when in working position and do not exceed the specified p.t.o. speed (e.g. max. 540 rpm)!

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

- Turn the p.t.o. on only when all safety devices (coverings, protective aprons, casings, etc.) are in proper condition and attached to the implement in the correct protective positions.

540 Upm	750 Upm	1000 Upm

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

4. Avoid any damage!

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

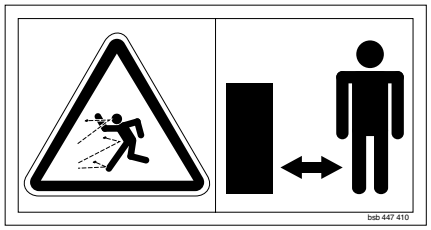
In the event of a collision

- Stop immediately and switch off the drive.
- Carefully check the implement for damage.
- Have the implement checked also by a specialist workshop if necessary.

5. 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.



6. Wear hearing protection

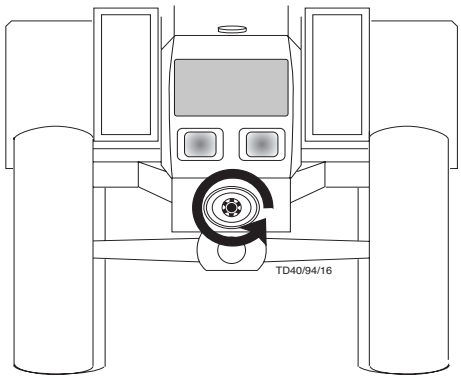
The noise level in the workplace can deviate from the measured value (see Technical Data) partly because of the differing cabin types of various tractors.

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

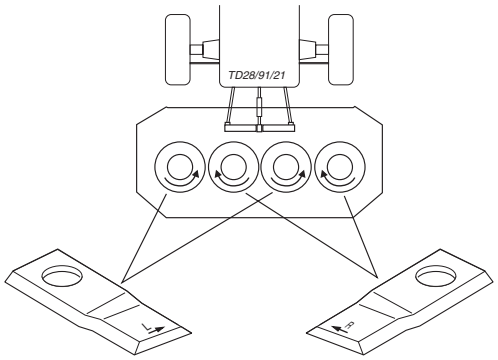
Mower drums direction of travel

General

For mowing the p.t.o. must rotate anticlockwise.

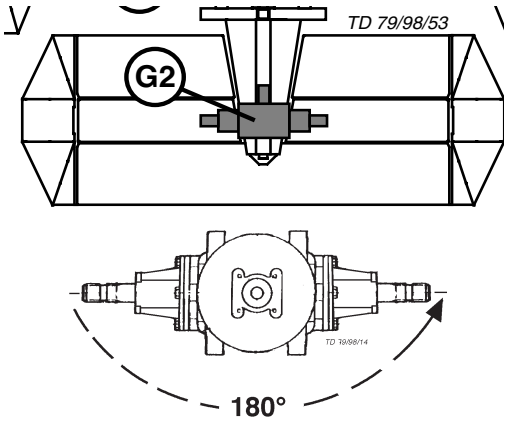


The mower drums direction of travel is OK if the outside drum is turning inward when looking from the front.



Help when the PTO shaft cannot be coupled on left rotation on the operating tractor:

- Remove transmission (G2), turn it 180° and refit it.



Mowing

Be advised!

Check all safety devices!

Stones and other objects can be picked up and ejected when mowing. Direct all persons out of the danger area.

Side protection must be properly folded down and secured!

1. **Set cutting height by installing/removing spacers**
2. **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. shaft free-wheel.

- Adjust travel speed to terrain and crop.

Important notes prior to starting work

Safety information: see Supplement A, pt. 1. - 7.)

After the first hours of operation

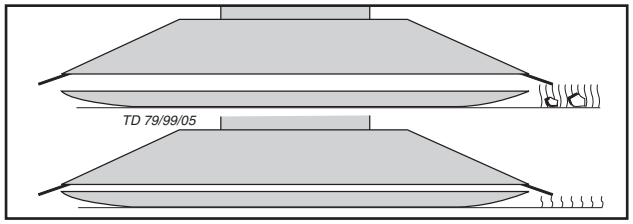
- **Retighten all blade screw fittings.**

Operation

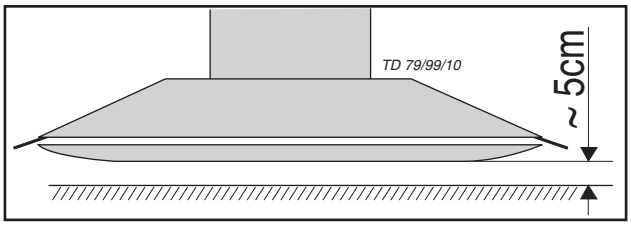
1. Adjust cutting height by turning upper link spindle (inclination of the cutting discs max. 5°).

Cutting height adjustment

The cutting height can be set anywhere from 35 to 65 mm by adjusting the centre disc.

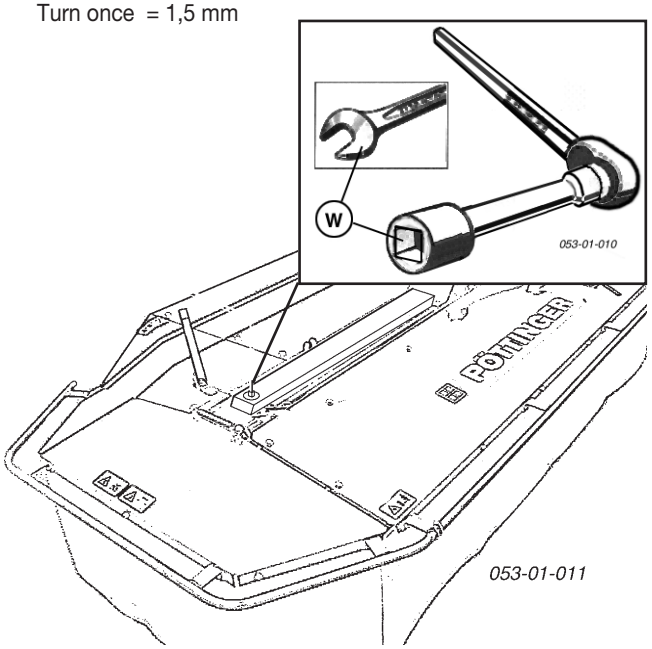


1. Lift unit with loader (~5 cm).



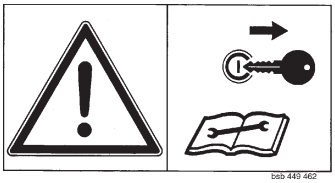
2. The key (W) is put on the square or hexagon and turned until the required cutting height is set.

   Turn once = 1,5 mm



Cutting height adjustment

Safety points



- Turn engine off when adjustment, service and repair work is to be done.
- Do not work under the machine without safe support.
- Retighten all screws after the first hours of operation.

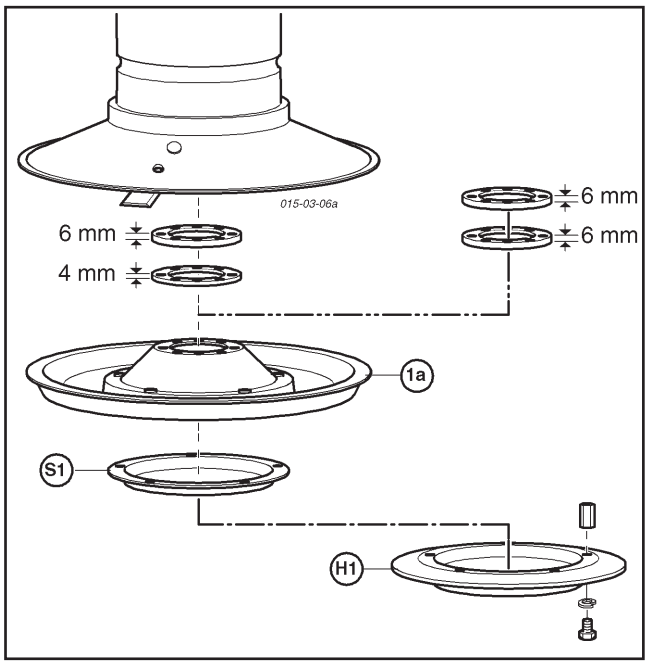
Distance plates

- The cutting height is set by inserting distance plates (4mm, 6mm).

  2 of which have already been inserted (4mm, 6mm) in the factory.

Optional equipment: 8 distance plates (6mm)

Optional equipment: high-cut mowing plate (H1)



- Each mowing drum must have an equal number of plates inserted.

Inserting distance plates

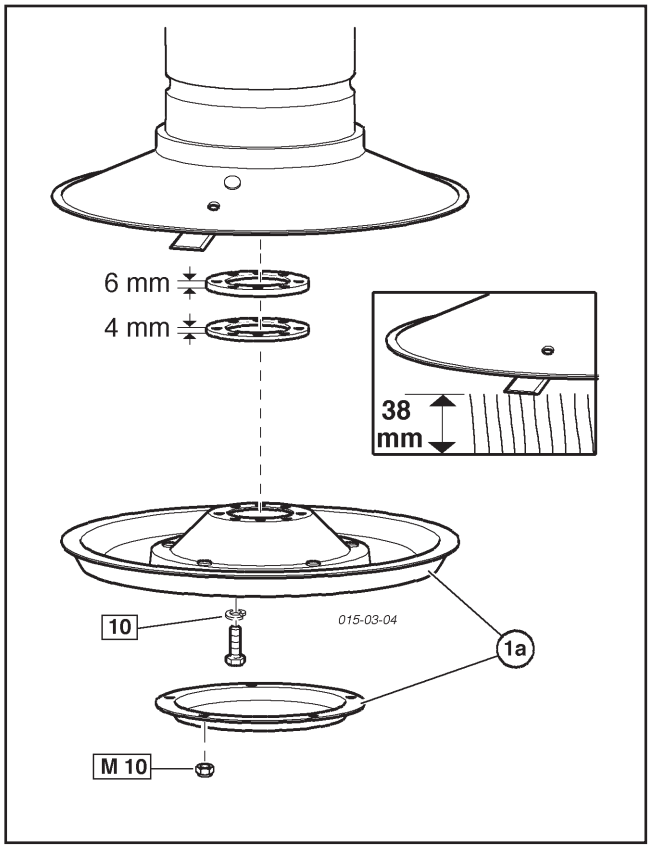
1. Remove both skide plates (S1, 1a).
2. Insert distance plates (6mm).
3. Refit both skid plates.

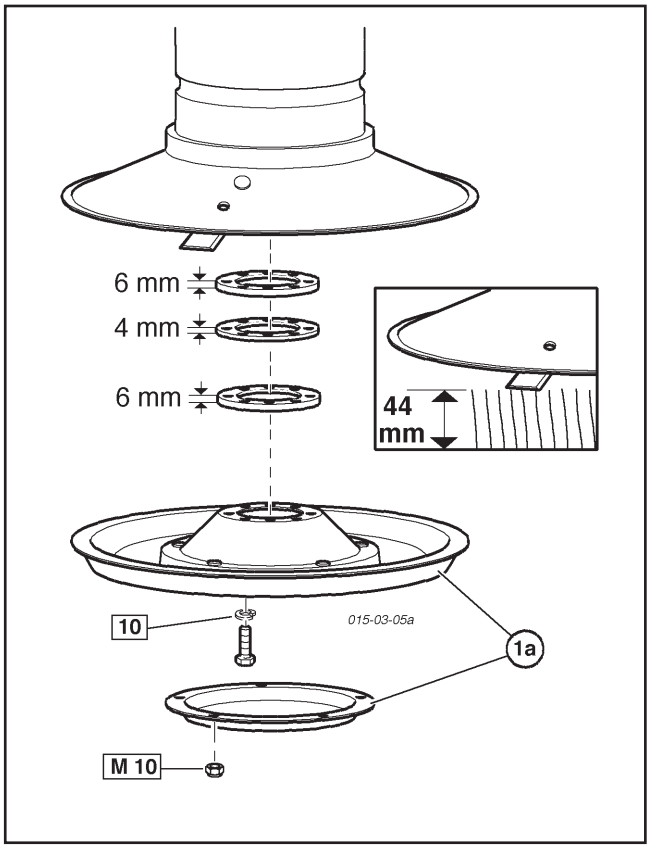
   Replace worn or damaged spring lock washers with new ones.

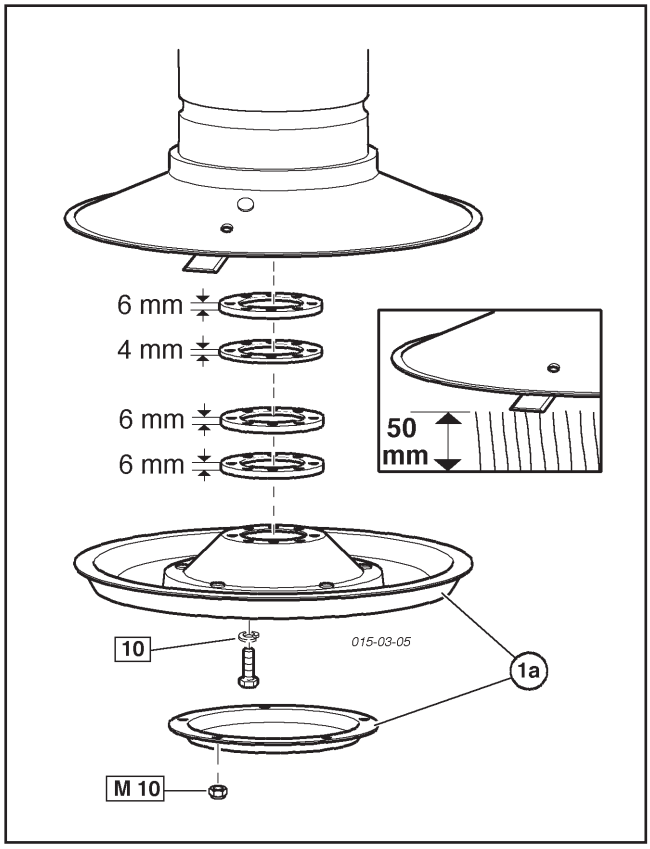
   Similarly with worn screws and nuts.

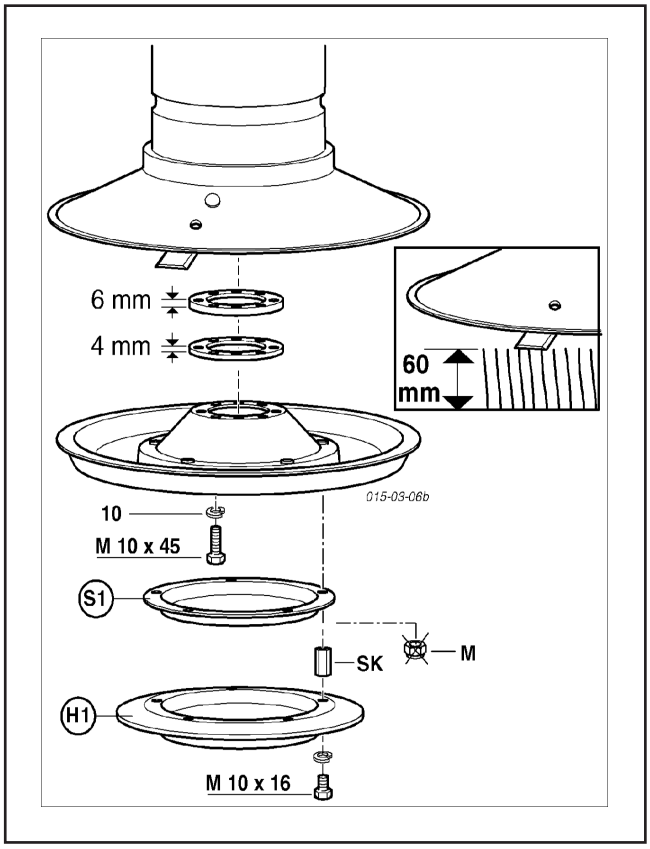
   Tighten all screws firmly!
4. Check after the first hour of operation

   Check all screws for tightness.


6 mm
4 mm
38 mm
10
015-03-04
1a
M 10

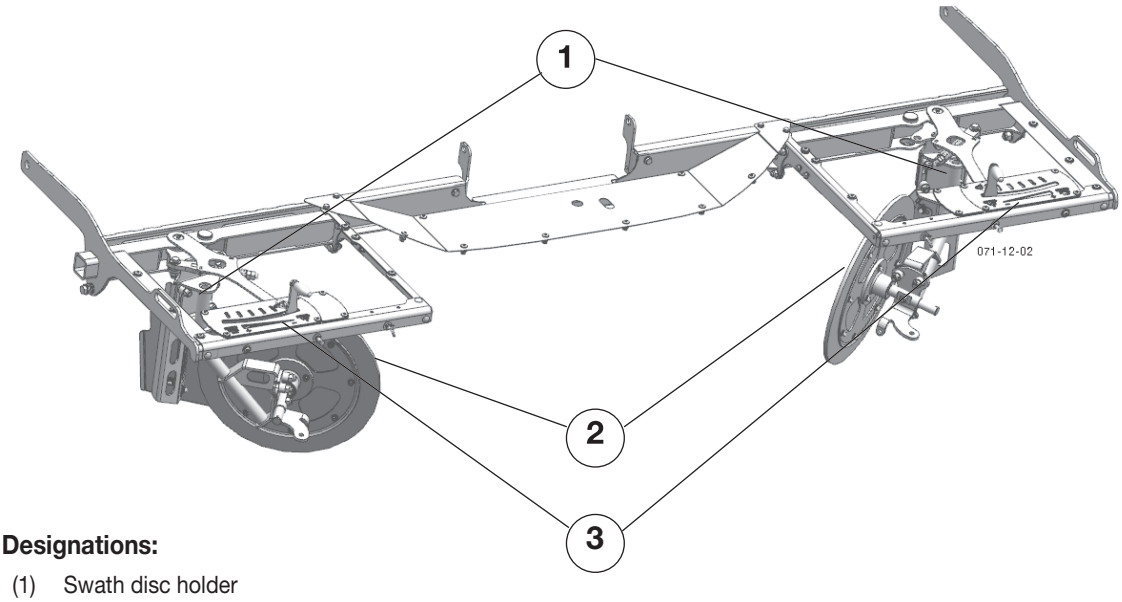

6 mm
4 mm
6 mm
44 mm
10
015-03-05a
1a
M 10


6 mm
4 mm
6 mm
6 mm
50 mm
10
015-03-05
1a
M 10


6 mm
4 mm
60 mm
015-03-06b
10
M 10 x 45
S1
SK
M
H1
M 10 x 16

Operating Principle

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



Designations:

(1) Swath disc holder
(2) Swath disc
(3) Adjusting mechanism

Safety note:

Read and comply with the Operating Instructions and particularly the safety notes prior to commissioning.

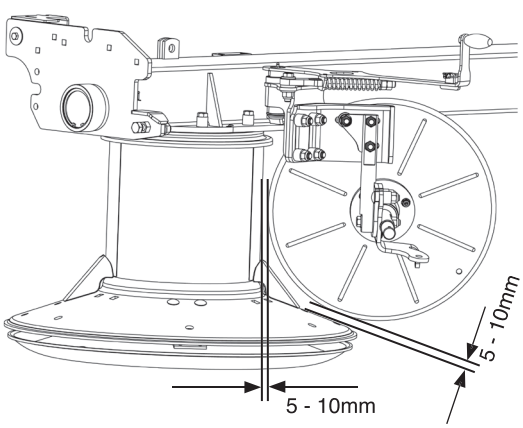
Adjustment Possibilities

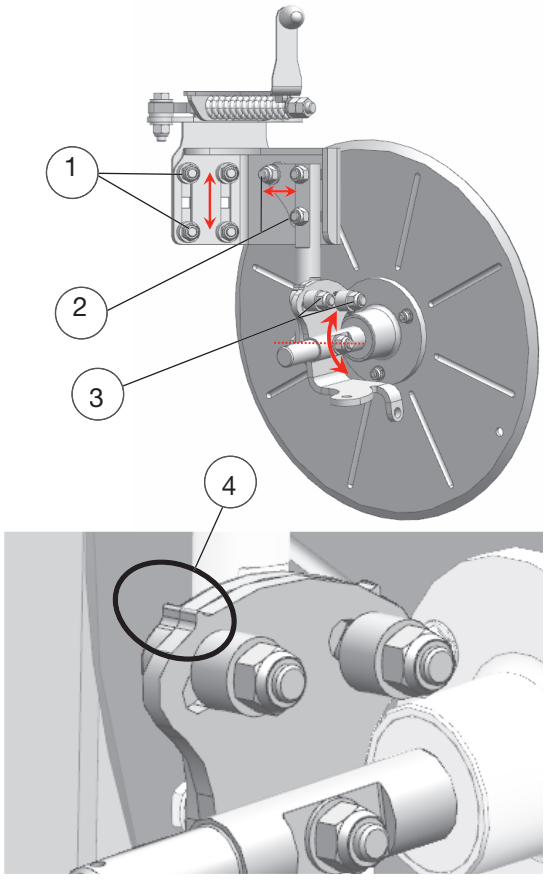
Working range:

1. Swath former height can be set via the elongated holes (1).

   Optimum setting:

   The discs are fitted 5-10mm higher than the swath plate lower edge.
2. Distance to mowing drums can be adjusted using screws (2)
3. Swath disc incline can be adjusted using screws (3). The factory sets the catches (4) one behind the other as shown in the diagram.





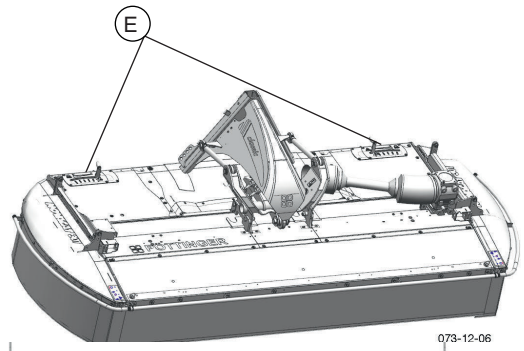
Warning!

Rotating parts, danger of being pulled in. Never open or remove protective devices when engine is running.

Setting opitons for swath width

Setting the swath width:

The swath discs form the fodder into the required swath width. Swath discs are set individually left and right using the regulating lever (E).

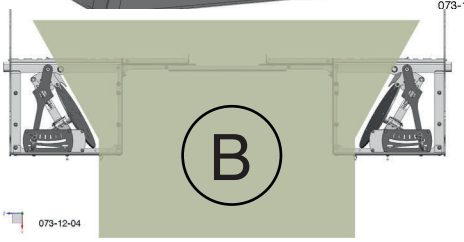


Setting the swath disc position

The settings listed below should be taken as basic settings. An optimum swath disc setting could be possible when actually in operation, conditional to the various fodder types.

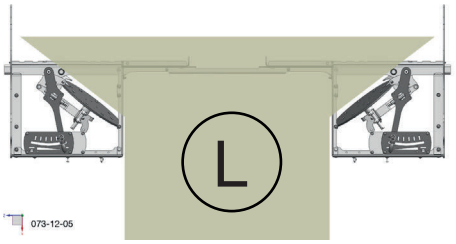
Wide spreading

- Swing swath discs completely out
- Position (B)



Swaths

- Swing swath discs completely in
- Position (L)



Caution!

Switch off the engine before carrying out maintenance and repair work and remove the ignition key.

Non-standard equipment

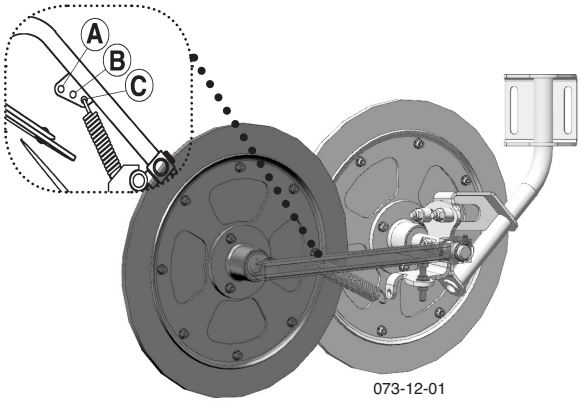
Additional swath plate

Adjusting the two tension springs:

A = For tall, dense fodder crops.

B = Basic setting.

C= For short fodder crops.



Maintenance

The swath former is maintenance-free with the exception of cleaning activities.

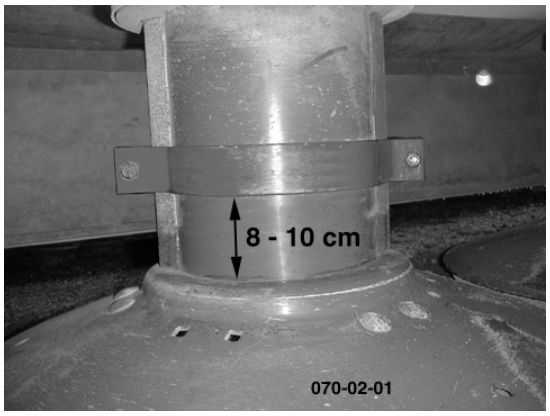
Montage of the transport-rings.

Additional transport-rings can be fitted to the inner mowing drums to prevent clogging when working with dense fodder.

Adjustment **"8 - 10 cm"**

Attention!

Transport rings cannot be used together with a conditioner!



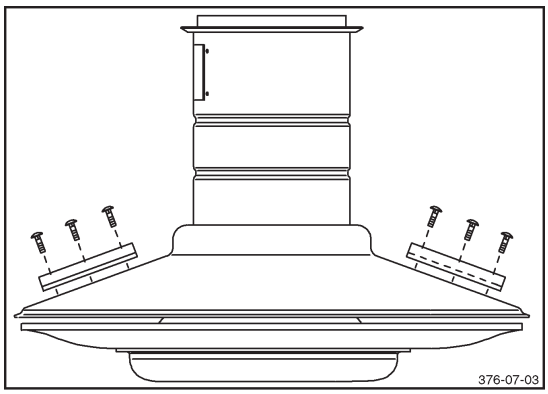
Fitting inner conveying guides

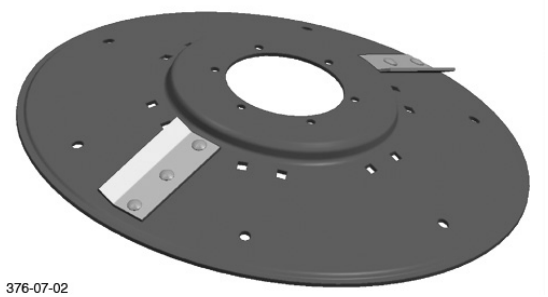
(Only available for Eurocat 311 classic)

For dense fodder additional conveying guides can be fitted to prevent clogging

Attention!

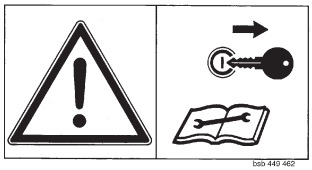
Conveying guides cannot be used together with a conditioner!





Safety advice

- Switch off engine prior to any adjustment, maintenance or repair work.



General maintenance information

Please observe the infiormation below to maintain the implement 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 at mower

Tine bolt connections at rake and tedder

Spare parts

a. Original parts and accessories are specially designed for the implements.

b. We expressly point out that we have not tested or approved any original parts and accessories not supplied by us.

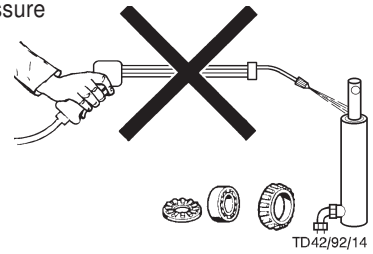
c. The installation and/or use of such products may under certain circumstances negatively modify or impair the propeties of the implement as specified in the design. Any liability on the part of the manufacturer is excluded in the event of any damage due to the use of non-original parts and accessories.

d. Any unauthorised modifications or the use of components and attachments at the implement rules out any liability on the part of the manufacturer.

Cleaning of machine parts

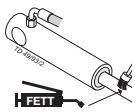
Be advised! Do not use high-pressure washers for the cleaning of bearing- and hydraulic parts.

- Danger of rust!
- After cleaning, lubricate the implement according to the lubrication plan and perform 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 outside.



Winter storage

- Clean implement thoroughly prior to winter storage.
- Put up protection against 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.

Cardans

- See information in Attachment

Please observe the following for maintenance!

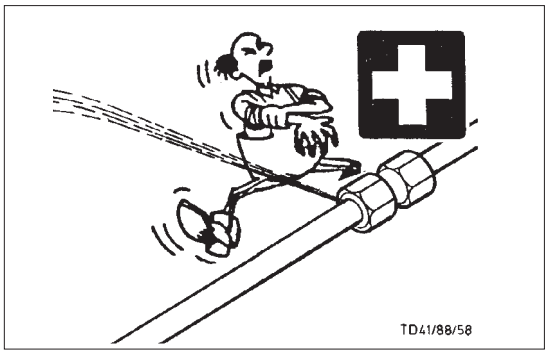
The instructions in these Operating Instructions apply.

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



Make sure that the hydraulic system is suitable for the tractor before connecting the hydraulic lines.

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

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

Prior to every taking into operation

- 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. The period of use should not exceed 5 – 6 years.

Safety advice

• Switch off engine and remove ignition key prior to any adjustment, maintenance or repair work.

• Only perform work underneath the implement with secure supports.

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

• Only park implement on flat, firm ground.

Repair information

Please observe the repair information in the Attachment (If available).

Safety advice

Clean the coupling plug of the hydraulic hoses and the oil socket prior to each connection.

Note any abrasion and clamping points.

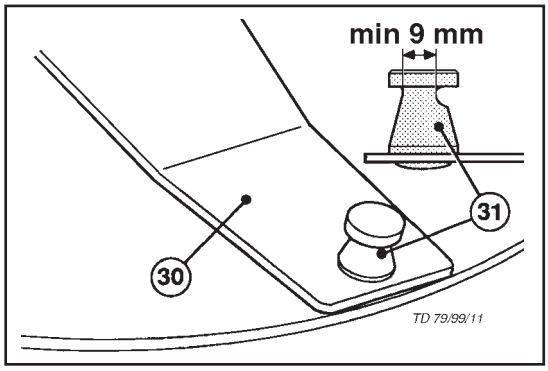
Holder for the rapid change of mowing blades

Attention!

For your safety

- Check the mowing blades and their fastenings regularly!
  - The mowing blades on a mowing disc must wear equally (imbalance).

    Otherwise they must be replaced with new ones (change pairwise)
  - Discontinue further use of bent or damaged blades.



- Bent, damaged and/or worn blade brackets (30) may not be used further.

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

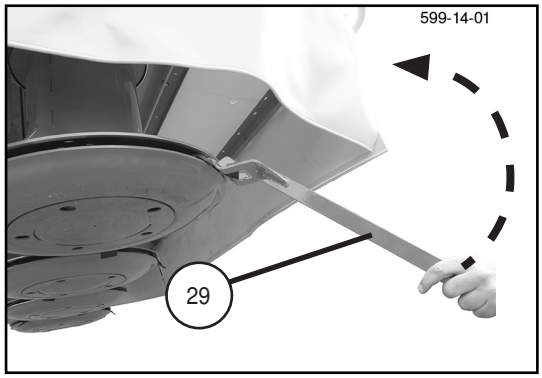
- as described under chapter "Changing the Mowing blades"

Attention!

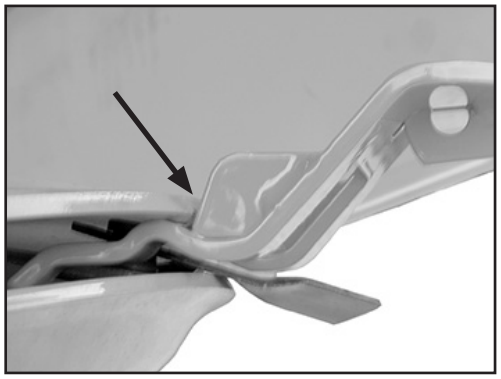
Damaged, deformed, extremely worn parts must not be used further (accident hazard).

Changing the mowing blades

1. **Place the cutting bar in headland position**
2. **Insert the blade wrench (29) in the gap between the floor plate and the drum, as shown in the illustration.**



Make sure that the blade wrench edge lies on the upper drum edge.



Then push the blade wrench (29) upward

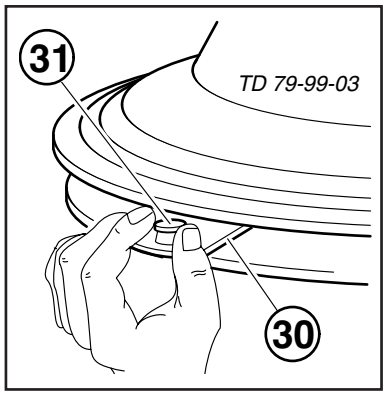
and with that the blade holder (30) moves downward.

- The blade (M) is suspended on the bolt (31).

3. **Remove the mowing blade (14).**
4. **Remove fodder residue and dirt**
   - from around the bolt (31).

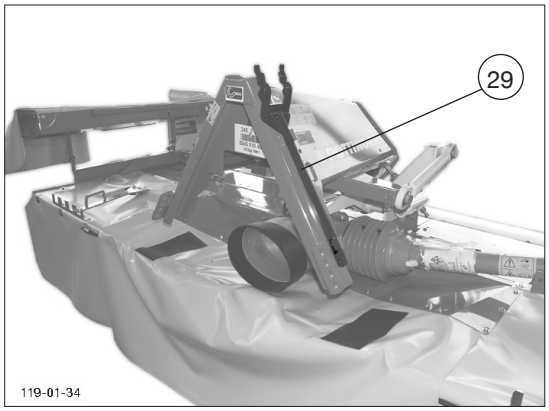
5. Check

- the blade bolt (31) for damage, wear and tight fitting.
- the bracket (30) for damage, changes in position and tight fitting.



6. Fit mower blades and remove lever (29)

7. Place lever (29) in the two brackets.

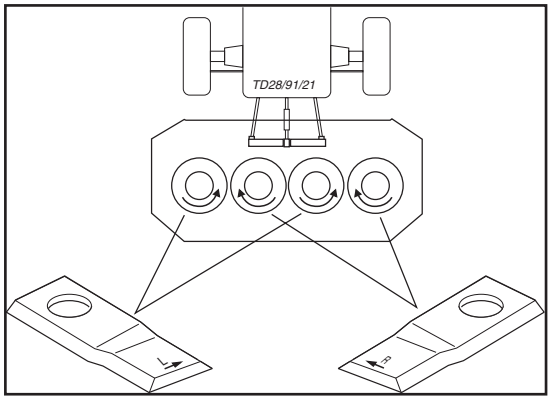


Blades

The blades on a cutting drum must wear equally (imbalance danger), otherwise they must be replaced with new ones.

Attention to the correct assembly!

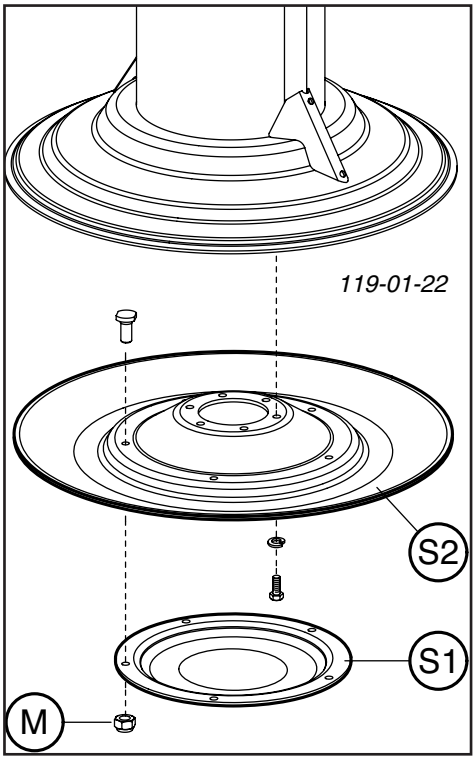
- Assemble the blades with designation "L" only on the mowing drum rotating to the left.
- Assemble the blades with designation "R" only on the mowing drum rotating to the right.



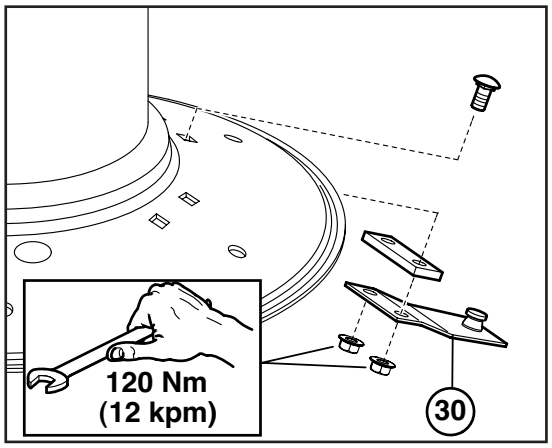
Cutting disc

For mowing discs worn in the mower blade areas, proceed as follows:

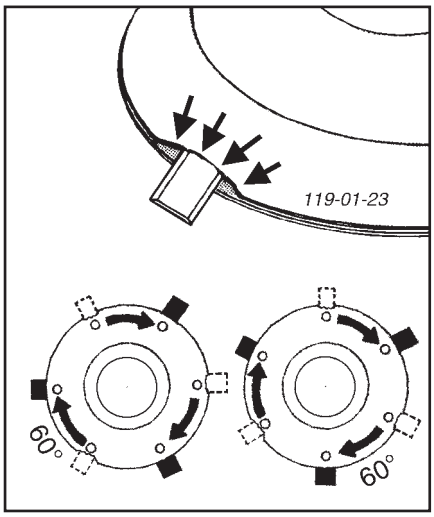
- Remove both lower slide discs (S1, S2).



- Loosen the screws of the blade brackets (30).



- Shift the blade bracket about 60˚.



- Tighten the screws well (120 Nm)
  - After a couple of hours of operation, check that the brackets are tightly positioned.
- Reassemble both lower slide discs correctly.

Higher cutting level with the high-cutting mowing disc

Spacer discs (standard fittings)

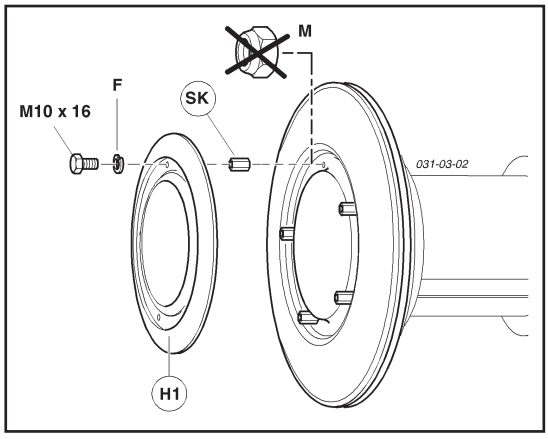
- The machine's basic design allows cutting length adjustment by adding spacer discs.
  - see chapter Putting into Operation

High-cutting mowing disc (optional)

This results in a cutting height increase of 23 mm.

By removing individual spacer discs the cutting height can be reduced.

Changing to a high-cutting mowing disc



1. Remove the nuts (M)
2. Fit the high-cutting mowing disc (H1)
   - First screw the hexagonal spacer elements (SK) onto the threaded bolts and then fighten them
   - Fit the high-cutting mowing disc (H1) with the help of the hexagonal screws M10 x 16 and the locking ring (F)
3. After several hours of operation, check that all screw connections are tightly positioned.

Changing from a high-cutting mowing disc (H1) back to a standard slide disc (S1) is carried out in reverse order.

Angular gear

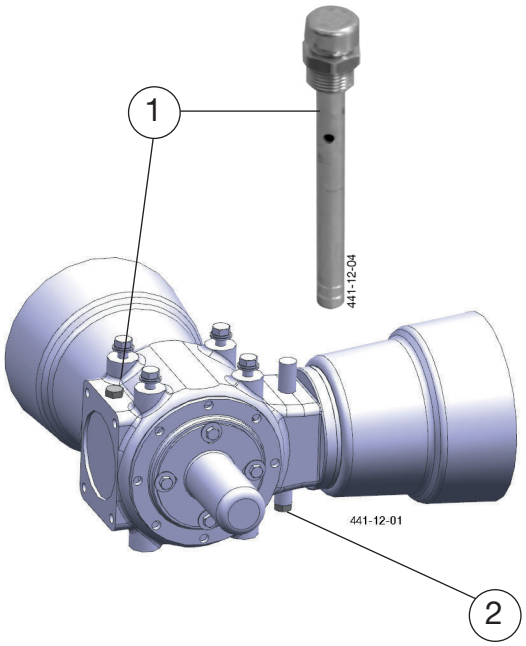
- Change oil after the first 50 operating hours.
  Under normal operating conditions, oil is to be replenished annually (OIL LEVEL).
- Change oil after 100 ha at the latest.

Oil quantity:

0.7 litre SAE 90

1… Oil filling screw, oil gauge and breather

2… Oil drain screw



V-belt drive

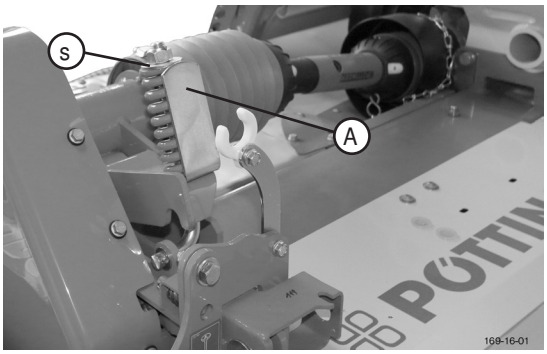
- Check V-belt tension:

  After 1h, after 5h, after 20h and then from time to time.

Setting values:

If the disc (S) and the top edge of the indicator (A) are at the same height (0 - 2 mm above), the drive belt's tension is correct.

Re-tensioning is only required if the distance between the disc (S) and the top edge of the indicator (A) exceeds 2 mm.



- If any of the 4 V-belts is damaged or twisted, then all 4 V-belts are to be replaced.

ATTENTION!

If the V-belts are too highly tensioned, there is a risk of damage to the ball bearings and the shafts.

Technical data

Description	EUROCAT 271 Type 3542	EUROCAT 311 Type 3552
Attachment	3-point attachment (front Weiste A-frame) Kat.II	3-point attachment (front Weiste A-frame) Kat.II
Working width	2,7 m	3,05 m
Transport width	2,65 m	3 m
Swath width (machines without Conditioner) without swath discs with 2 swath discs with 4 swath discs	 2,1 m 1,8 m 1,4 m	 2,1 m 1,8 m 1,4 m
No. of mower drums	4	4
No. of cutter blades	12	12
Coverage capacity	2,7 ha/h	3,2ha/h
Drive speed (r.p.m.)	1000	1000
Power required – without Conditioner	40 kW (55 PS)	44 kW (60 PS)
Weight	650 kg	780 kg
Noise pollution level	91,6 db (A)	91,6 dB (A)
Cutting height adjustment	Spacers	Spacers

All data subject to revision

Optional equipment

* Lighting equipment / Warning signs
* Hydraulically hinged side protection

Necessary connections

For normal operation without optional extras, no electric or hydraulic connections are necessary:

* 1 double-action hydraulic connection
  (only for the optional hydraulically hinged side protection)
  pressure min.: 140 bar
  pressure max.: 200 bar

- 7-pole electric connection for lighting (12 Volt) (only for the optional lighting equipment)

[1] Weight: Variations possible depending on machine features.

Position of Vehicle Identification Plate

The chassis number is engraved on the name plate illustrated on the left. Warranty claims, enquiries and spare parts orders cannot be made without quoting the chassis number.

Please enter the number on the title page of the Operating Instructions immediately on taking delivery of the vehicle/ equipment.

The defined use of the mower unit

The "EUROCAT 271 classic (Type PSM 3542) and "EUROCAT 311 classic (Type PSM 3552) mowers are definitely confined to normal operations in agricultural undertakings.

- The mowing of grassland and short stemmed fodder.

  Any other uses outside of these are regarded as undefined.

  The manufacturer takes no responsibility for any resulting damage which occurs henceforth. The risk is carried by the user alone.
- The keeping of operating, service and maintenance requirements layed down by the manufacturer also come under the heading of „defined use".

SUPPLEMENT

The original cannot be copied ...

EN

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

Recommendations for work safety

All points refering to safety in this manual are indicated by this sign.

1. Operating instructions

a. The operating instructions are important for the correct operation 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 hands.

c. Pass the operating instructions on to the buyer when selling the machine.

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, mentally and physically able and having been trained or familiarized accordingly must operate this machine.

b. Persons not yet trained or familiarized or under training 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. Repair 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.) Defined use

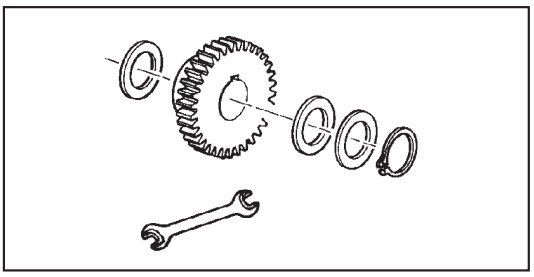
a. See "Technical Data".

b. The keeping of operating, service and maintenance requirements layed down by the manufacturer also come under the heading of "defined use".

5.) Spare parts

a. The **original components and accessories** have been designed especially for these machines and appliances.

b. We want to make it quite clear that components and accesories that have not been supplied by us have not been tested by us.



c. The installation and/or use of such products can, therefore, negatively change or influence the construction characteristics of the appliance. We are not liable for damages caused by the use of components and accessories that have not been supplied by us.

d. Alterations and the use of auxiliary parts that are not permitted by the manufacturer render all liability invalid.

6.) Protection devices

a. All protection devices must remain on the machine and be maintained in proper condition. Punctual replacement of worn and damaged covers is essential.

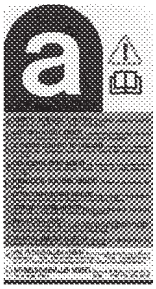
7.) Before starting work

a. Before commencing work, the operator must be aware of all operating devices and functions. The learning of these is too late after having already commenced operation!

b. The vehicle is to be tested for traffic and operating safety before each operation.

8.) Asbestos

a. Certain sub-supplied components of the vehicle may contain asbestos due to technical reasons. Observe the warning on spare parts.



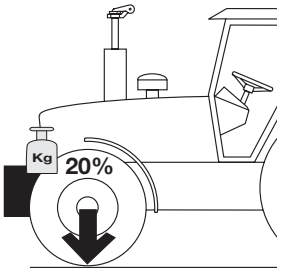
9.) Transport of persons prohibited

a. The transport of persons on the machine is not permitted.

b. The machine may only be driven on public roads when in the position stipulated for road transport.

10.) Driving ability with auxiliary equipment

a. The towing vehicle is to be sufficiently equiped 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 ground conditions and by the auxiliary equipment. The driving must be adapted to the corresponding terrain and ground conditions.

c. When driving through curves with a connected appliance, observe the radius and swinging mass of the appliance.

d. When travelling in a curve with attached or semimounted implements, take into account the working range and swing mass of the implement!

11.) General

a. Before attaching implement to three-point linkage, move system lever into a position whereby unintentional raising or lowering is ruled out!

b. Danger of injury exists when coupling implement to tractor!

c. Danger of injury through crushing and cutting exists in the three-point linkage area!

d. Do not stand between tractor and 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 to stand between tractor and implement without tractor being secured against rolling using parking brake and/or wheel chocks!

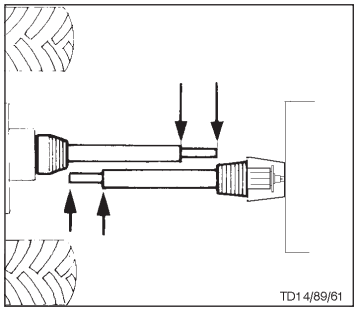
i. For all maintenance, service and modification work, turn driving motor off and remove universal drive.

12.) Cleaning the machine

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

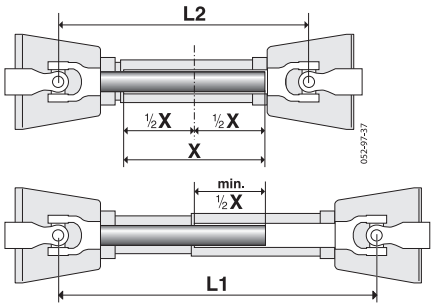
Matching driveshaft to tractor

To determine the actual length required, hold the two halves of the driveshaft side by side.



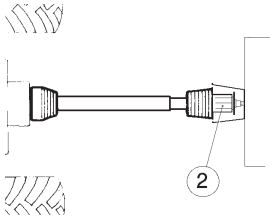
T rimming procedure

- To adjust the length, place the pto halves in the shortest operating position (L2) next to one another and mark.



Caution!

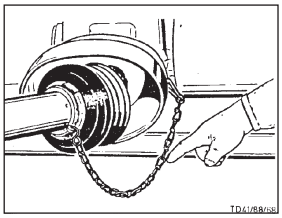
- Note the maximum operating length (L1)
  - Aim at the maximum possible tube superimposition (min. 1/2 X)
- Trim the inner and outer protective tube equally
- Attach overload fuse (2) at the implement!
- Always check that drive shaft locks are securely engaged before starting work.



Safety chain

- Use chain to prevent tube guard from rotating.

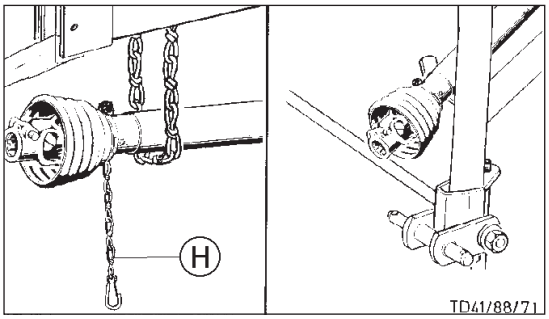
  Ensure sufficient swivel space for the cardan shaft!
- Trim the safety chain so that it cannot wind around the cardan shaft.



Instructions for working

The permissible pto speed may not be exceeded when using the implement.

- The hitched implement may continue to run after the pto is switched off. Work may only be performed once it has reached complete standstill.
- The cardan shaft must be put down or secured using a chain when the implment is parked. Do not use safety chain (H) to suspend the cardan shaft.



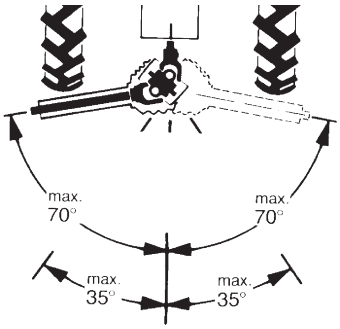
Wide-angle joint:

Maximum angle in operation and at standstill 70°.

Standard joint :

Maximum angle at standstill 90°.

Maximum angle in operation 35°.

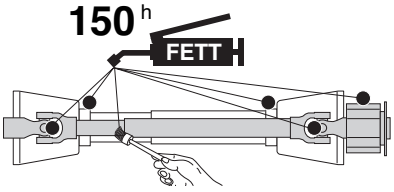


Maintenance

Replace work covers immediately.

- Lubricate with a brand-name grease before starting work and every 150 hours worked.
- Before any extended period of non-use, clean and lubricate driveshaft.

  For winter working, grease the tube guards, to avoid them freezing together.



Be advised!

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

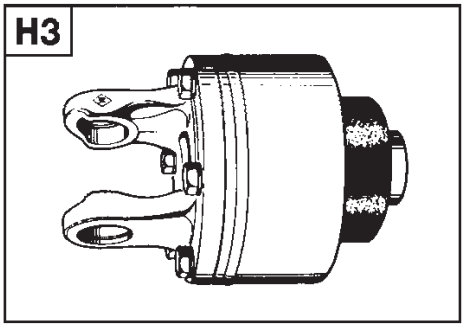
Information on function when using a cam shifting clutch.

This overload clutch switches the torque transmitted to zero if overloaded. To revert to normal operation, stop the p.t.o. drive briefly.

The clutch reengages at a speed below 200 rpm.

Be advised!

Re-engaging is also possible by decreasing the p.t.o. r.p.m.



TAKE NOTE!

The overload clutch on the driveshaft is not a “Full up” indicator. It is purely an overload protection device designed to protect your vehicle against damage.

Sensible driving avoids frequent engaging of the clutch and prevents unnecessary wear to the clutch and the implement.

Greasing interval: 500 hrs (Special lubricant)

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.

a) Measure dimension „L“ at compression spring of K90, K90/4 and K94/1 or at set screw of K92E and K92/4E.

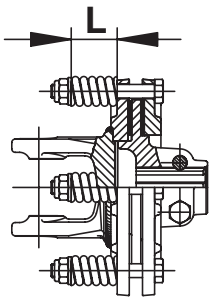
b.) Loosen screws to release the pressure on the friction disk.

Slip the clutch.

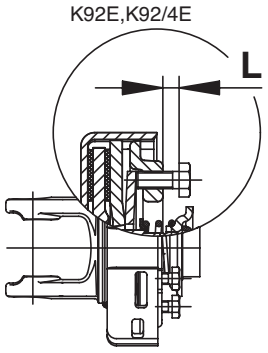
c.) Tighten set screws to dimension "L".

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
 =	Number of grease nipples
 =	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.

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EUROCAT 272

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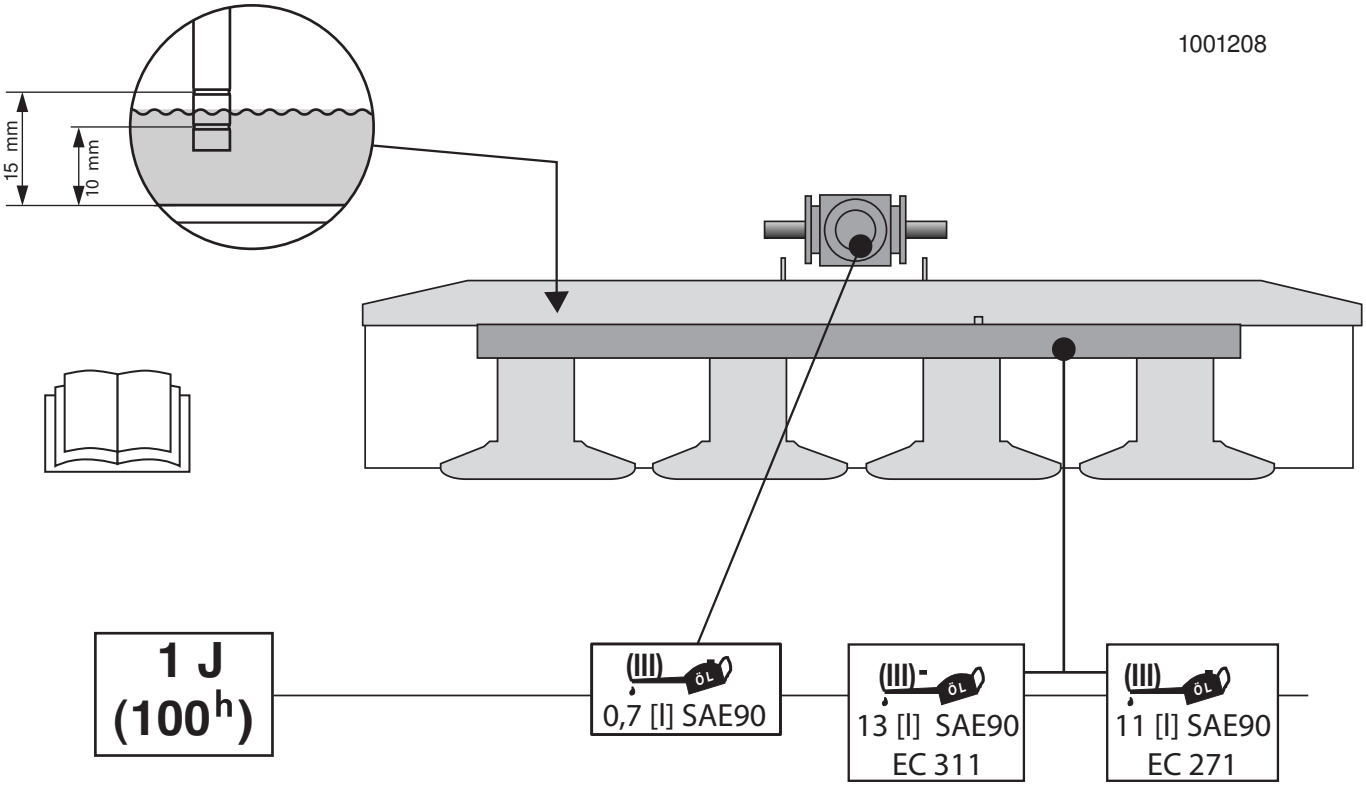

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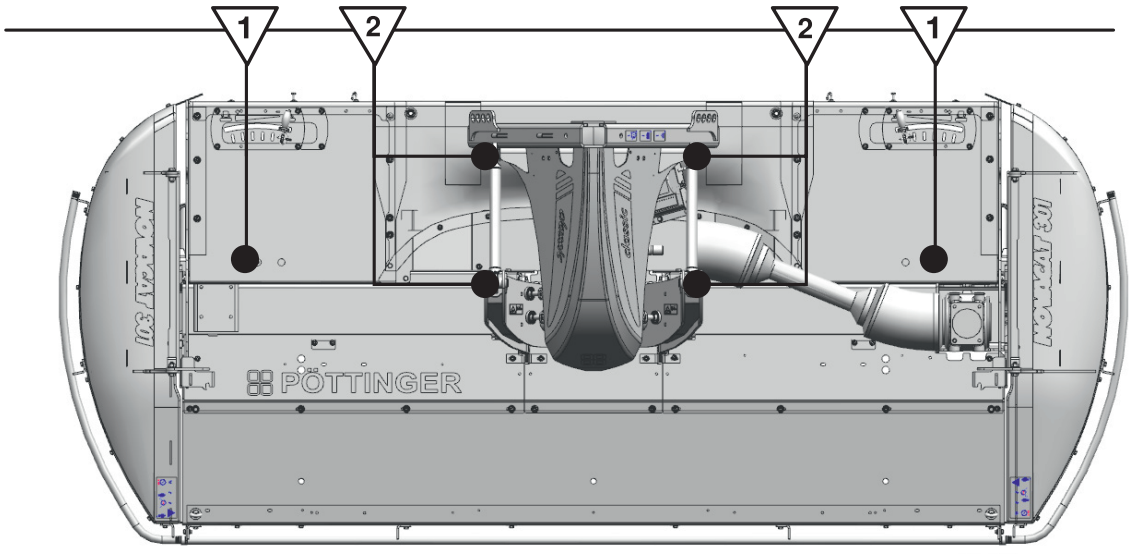

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EN

Lubricants

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 See notes: * ** ***	motor oil SAE 30 according to API CD/SF	gear oil, 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

Company	I	(II)	III	(IV)	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	AVIA GETRIEBEFLIESSFETT	AVIALUB SPEZIALFETT LD	GETRIEBEÖL HYP 90 EP MULTIHYP 85W-140 EP	
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	GETRIEBEFLIESSFETT 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	HYSPIN AWS 32/46/68 HYSPIN AWH 32/46	RX SUPER DIESEL 15W-40 POWERTRANS	EPX 80W-90 HYPOY C 80W-140	CASTROLGREASE LM	IMPERVIA MMO	CASTROLGREASE 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 AUSTROTRAC 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 HYDRELF 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	GEAROIL GP 80W-90 GEAROIL GP 85W-140	MULTI PURPOSE GREASE H	FIBRAX EP 370	NEBULA EP 1 GP GREASE	GEAR OIL GX 80W-90 GEAROIL GX 85W-140	
EVVA	ENAK HLP 32/46/68 ENAK MULTI 46/68	SUPER EVVAROL HD/B SAE 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 • AGRIFARM UTTO MP • PLANTOHYD 40N ***	• AGRIFARM STOU MC 10W-30 • TITAN UNIVERSAL HD	• AGRIFARM GEAR 80W90 • AGRIAFRM 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	GETRIEBEFLIESSFETT 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 HVI/46HVI	EXTRA HD 30 SUPER HD 20 W-30	MEHRZWECKGETRIEBEÖI SAE 90 HYPOID EW 90	MEHRZWECKFETT RENOLIT MP DURAPLEX EP	RENOSOD GFO 35	RENOPLEX EP 1	HYPOID EW 90	

Company	I	(II) OIL	III	FETT (IV)	V	VI	VIII	NOTATIONS
SHELL	TELLUS S32/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 SIMMNIA 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. ** HLP-(D) + HV hydraulic oils *** HLP + HV hydraulic oils with a vegetable oil basis, biodegradable and therefore environmentally friendly.
TOTAL	AZOLLA ZS 32, 46, 68 EQUIVIS 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	
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	
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	WIOLAN HS (HG) 32/46/68 WIOLAN HVG 46 ** WIOLAN HR 32/46 *** HYDROLFLUID *	MULTI-REKORD 15W-40 PRIMANOL REKORD 30	HYPOID-GETRIEBEÖL 80W-90, 85W-140 MEHRZWECKGETRIEBEÖL 80W-90	WIOLUB LFP 2	WIOLUB GFW	WIOLUB 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	

(D)

Oberlenker kürzen

1. Gerät an die Unterlenker des Hubwerks ankuppeln.
2. Anbaubock senkrecht ausrichten (90°).
3. Gewindespindel ausbauen
   - Spannhülse enfernen
   - Gewindespindel herausdrehen
4. Abstand **"A1"** abmessen
5. Gewindespindel kürzen (Maß **"A2"** der Tabelle entnehmen)
6. Gewindespindel einbauen
   - Mit Spannhülse sichern

(F)

Raccourcir le 3 ème point

1. Atteler la machine aux bras inférieurs du relevage.
2. Positionner le bâti d'attelage à la verticale.
3. Démonter l'embout fileté.
   - Enlever la goupille mécanindus.
   - Dévisser l'embout fileté.
4. Mesurer la cote "A1"
5. Raccourcir l'embout fileté. (Prendre la mesure "A2" dans le tableau).
6. Remonter l'embout fileté.
   - Le fixer avec la goupille mécanindus.

(GB)

Shorten upper link

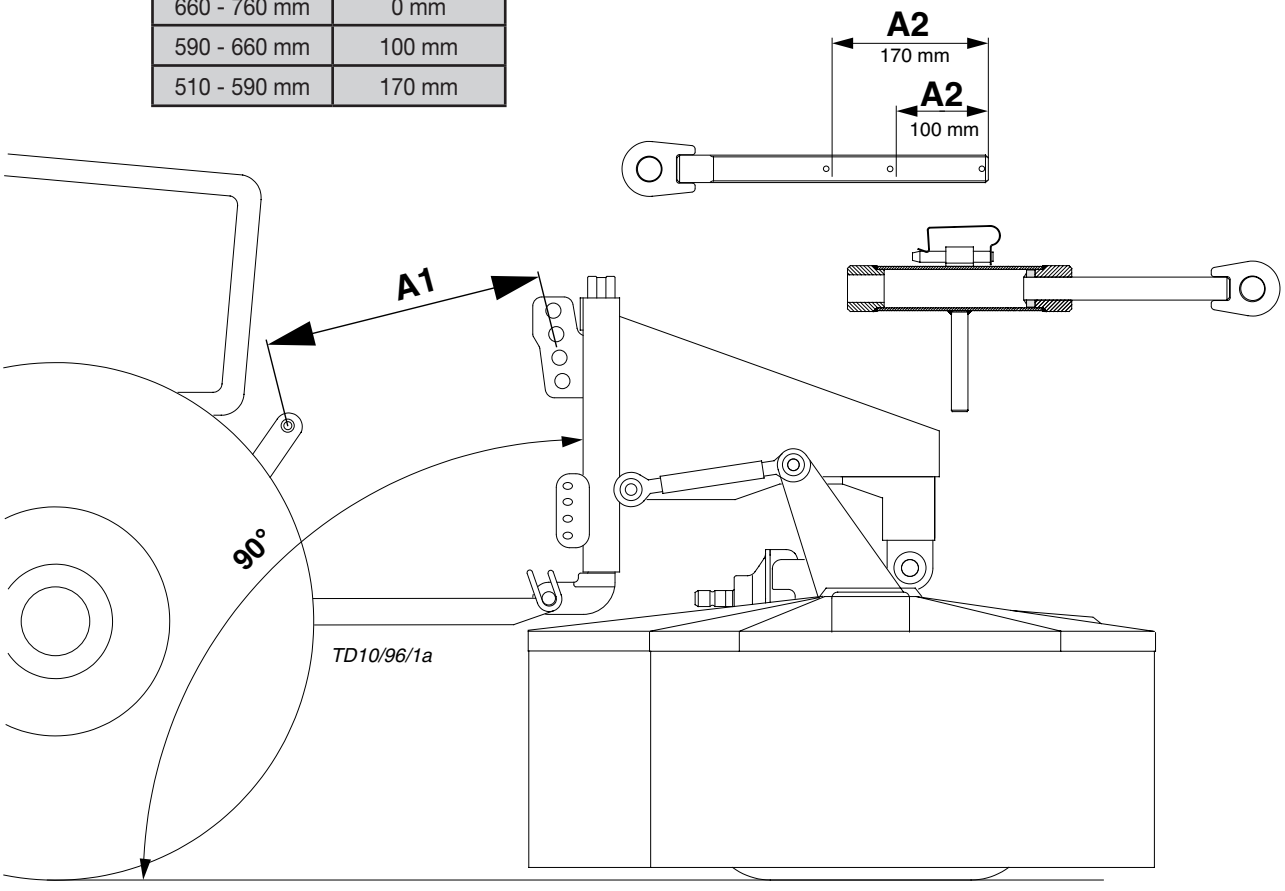
1. Connect the unit to the lower link of the lifting gear.
2. Vertically allign attachment frame (90°).
3. Remove threaded spindle
   - remove clamping sleeve
   - unscrew threaded spindle
4. Measure gap **"A1"**
5. Shorten threaded spindle (take measurement **"A2"** from table)
6. Screw in threaded spindle
   - secure with clamping sleeve.

(NL)

Topstang korter afstellen

1. Machine aan de hefarmen van de hefinrichting koppelen.
2. Aanbouwbok loodrecht instellen (90°).
3. Draadstang demonteren
   - spanhuls verwijderen
   - draadstang uitdraaien
4. Afstand **"A1"** opmeten
5. Draadstang op lengte maken (maat **"A2"** van de tabel aanhouden)
6. Draadstang weer monteren
   - met spanhuls borgen.

A1	A2
660 - 760 mm	0 mm
590 - 660 mm	100 mm
510 - 590 mm	170 mm



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

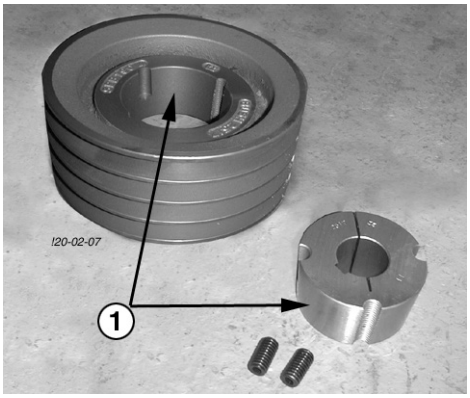
Bush identifier	Torque [Nm]
2017	30
2517	49

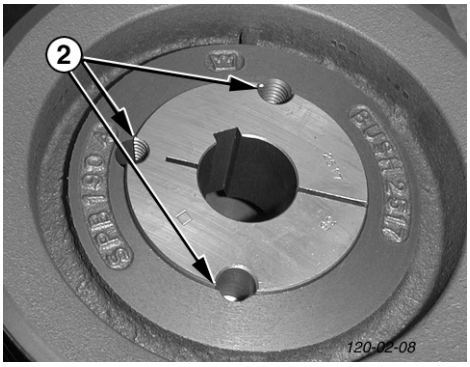
   - When the drive has been operating under load for a short period (half to on hour) check and ensure that the screws remain at the appropriate tightening torque.
   - In order to eliminate the ingress of dirt fill all empty holes with grease.

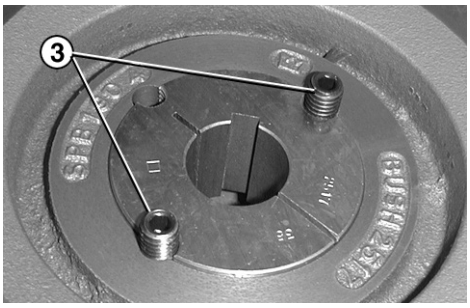
Removal

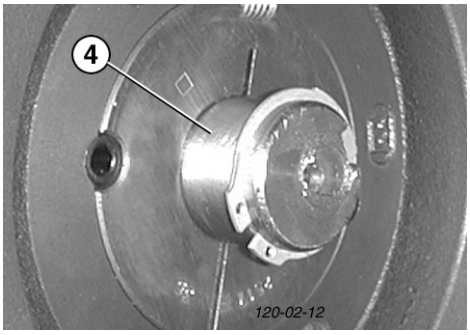
1. Slacken all screws. Depending on the size of the bush remove one or two.

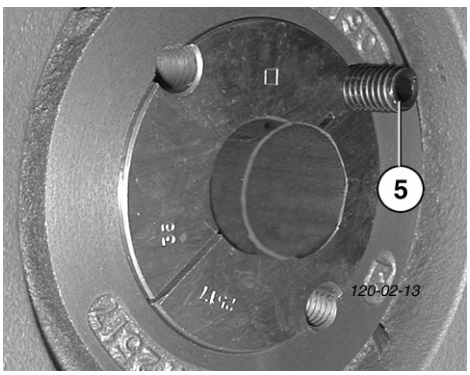
   After oiling point and thread of grub screws or under head and thread of cap screws insert them into the jacking off holie(s) in bush (Pos. 5).
2. Tighten screw(s) unitormly and alternately until the bush is loose in the hub and pulley is free on the shaft.
3. Remove pulley bush assembly from shaft.









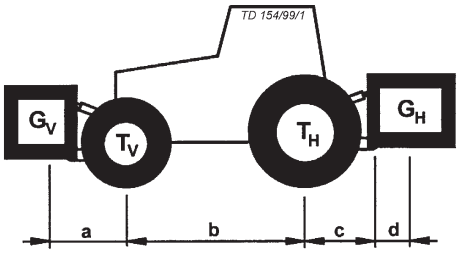


Combination of tractor and mounted implement

The mounting of implements on the front or rear three point linkage shall not result in exceeding the maximum permissible weight, the permissible axle loads and the tyre load carrying capacities ot the tractor. The front axle of the tractor must always to 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

Consideration of rear mounted implement and front/rear combinations

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

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

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

Front mounted implement

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

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

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

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

(If with the front mounted implement (G_V) the required minimum front ballasting ($G_{V\ min}$) cannot be reached, the weight of the front mounted implement has to be increased to the weight of the minimum ballasting at the front!)

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

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 with the rear mounted implement (G_H) the required minimum rear ballasting ($G_{H\ min}$) cannot be reached, the weight of the rear mounted implements has to be increased to at least the weight of the minimum ballasting at the rear!)

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

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 $T_{H\ tat}$

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

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

6. TYRE LOAD CARRYING CAPACITY

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 carrying capacity (two tyres)
Minimum ballasting front/rear	/ kg		---		---
Total weight	kg	≤	kg		---
Front axle load	kg	≤	kg	≤	kg
Rear axle load	kg	≤	kg	≤	kg

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!

The CE norm is not valid in the United States of America and Canada.

EC Conformity Declaration

Original Conformity Declaration

Name and address of the manufacturer:

PÖTTINGER Landtechnik GmbH
Industriegelände 1
AT - 4710 Grieskirchen

Machine (interchangeable equipment):

mower	EUROCAT 311 classic	EUROCAT 271 classic
Type	3552	3542
Serial no.		

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

machinery 2006/42/EG

In addition to this, the manufacturer also declares adherence to the other following EU 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:
Andreas Gadermayr
Industriegelände 1
A-4710 Grieskirchen

Markus Baldinger,
CTO R&D

Jörg Lechner,
CTO Production

Grieskirchen, 01.08.2016

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