Operator's manual

Translation of the original Operating Manual

Nr. 99+3551.EN.80U.0

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Drum mower

EUROCAT 311 ALPHAMOTION MASTER

(Type PSM 3550 : + . . 01001)

EUROCAT 311 **PHAMOTION PRO**

(Type PSM 3553 : + . . 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.

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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 <u>www.poettinger.at/poetpro</u>

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

INSTRUCTIONS FOR PRODUCT HANDOVER



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.

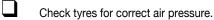
Χ

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 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 hand-over declaration online.

Table of contents

SYMBOLS USED

CE mark	5
Safety hints:	
Introduction	
WARNBILDZEICHEN	-
Bedeutung der Warnbildzeichen	7
Position der Warnbildzeichen	
	1
ATTACHING TO TRACTOR	
Safety advice10)
Attaching in general10	
Cardan shaft10	
Parking the machine10	
Attaching problems10	
Fenders and protective cloths1	
Hydraulic side protection1	
Transport position12	2
Road Transport12	2
Working position12	2
Top linkage12	2
MOUNTING UNIT "ALPHA MOTION"	
General safety information	3
Parking position	
Transport position	
Mounting	
Set spring tension	1
Operation	
Set cutting height ¹⁾	
	,
STARTING WORK	
Safety advice	
Important notes prior to starting work16	Ċ
Observe the direction of rotation of the mowing	_
drums1	
Mowing1	
Operation	
Central cutting height adjustment18	
Cutting height adjustment18	3
ED TINE CONDITIONER	
Mowing with the conditioner20	
Correct V-belt tension20)
Rotor tines position20)
Maintenance of the rotor tines:20)
Uncoupling and coupling the conditioner2	1
Position of the rotor tines on the conditioner	
Mowing without a conditioner24	4
Optional equipment24	
SWATH FORMER	
Adjustment of both swath makers ⁽⁸⁾	5
Adjustment of swath width ⁽⁸⁾	5
Assembly of the conveyor braces	
Assembly of the conveyor braces	
	J
GENERAL MAINTENANCE	-
Safety advice	
General maintenance information	
Cleaning of machine parts2	
Parking in the open2	
Winter storage	
Articulated shafts	
Hydraulic unit	3
Checking the mowing blades and the mowing blade	_
holder29	9

le 29
30
31
31
32
33

TECHNICAL DATA

Technical data	34
Optional equipment	34
Necessary connections	34
Type plate	35
The defined use of the mower unit	35
Type plate position	35
•••••	

SUPPLEMENT

SAFETY ADVICE

Lubrication chart	
EUROCAT 311 alpha motion master ED	43
EUROCAT 311 alpha motion pro ED	44
Lubricants	45
Combination of tractor and mounted implement	nt 48

TAPER BUSHES

Taper bushes	installation	instructions.	
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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 <u>of fatal or life-threatening injury.</u>

 All instructions in such text sections must be followed!

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!

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!

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! 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.

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.

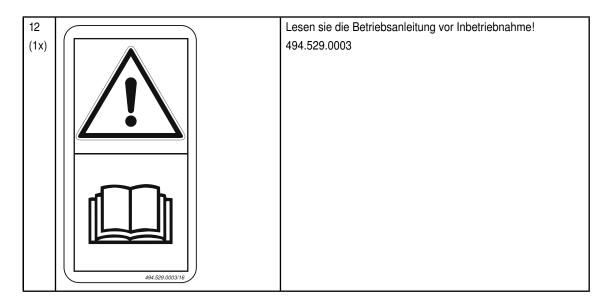
Product liability legislation obliges the manufacturer and the authorised dealer to issue Instructions when selling implements and to instruct customers in the use with reference to the safety, operating and maintenance regulations. Confirmation in the form of a declaration of transfer is required to 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.

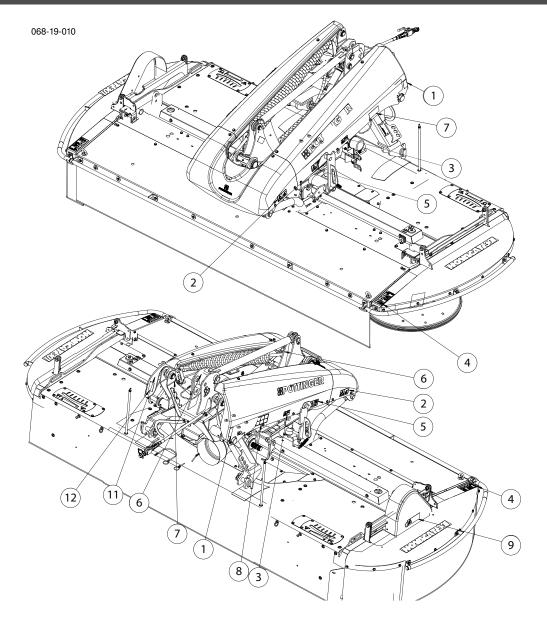
The Pöttinger Service-Team wishes you good luck.

	Bedeutung der Warnbildzeichen					
1 (2x)		Vor Wartungs- und Reparaturarbeiten Motor abstellen und Schlüssel abziehen. 495.165.0001				
2 (2x)		Nicht im Schwenkbereich der Arbeitsgeräte aufhalten. 495.166				
3 (2x)	Experimental Action	Niemals in den Quetschgefahrenbereich greifen, solange sich dort Teile bewegen können. 495.171				
4 (2x)		Keine sich drehendne Maschineneteile berühren Abwarten bis sich bewegende Maschinenteile zum Stillstand kommen. Bei laufendem Motor mit angeschlossener Zapfwelle ausreichend Abstand zu den Mähklingen halten. Vor dem Einschalten der Zapfwelle beide Seitenschutze schließen Gefahr durch fortgeschleuderte Teile bei laufendem Motor - Sicherheitsabstand halten. 495.175.0001				
5 (2x)		Vor dem Aufenthalt im Gefahrenbereich Sicherheitsgurt einlegen. 495.169				
6 (2x)		Aufhängepunkt beim Abladen 495.404				

7 (1x)	 Achtung! Während des Arbeitseinsatzes das Hydraulik Steuergerät auf "Schwimmstellung od. Senken" stellen. Attention! Au travail, mettre la manette du distributeur hydraulique en position "flottante ou descente". Caution! The hydraulic control should be in the "float or lower" position during operation. Attentiel Tijdens het werk het hydraulische stuurventiel in de zweefstand of op dalen" instellen. 	Während des Arbeitseinsatzes das Hydrauliksteuergerät auf Schwimmstellung stellen. 495.469
8 (1x)	Sichern Sie Ihr Recht Coarantissez votre droit Signature sur la delvery for proper product delvery for proper product delvery for proper product delvery for proper product transfer (Point 3). This will secure product ansigned to la remise conforme du produit (Point 3). This will secure product ansigned to la remise conforme du produit (Point 3). This will secure product ansigned to la remise conforme du produit (Point 3). This will secure product ansigned to la remise conforme du produit (Point 3). This will secure product ansigned to la remise conforme du produit (Point 3). This will secure product ansigned to la responsabilit product-average la remise regolare consegna de altrest regolare consegna de la arresponsabilit productaseprakelijkheid geweanborgd. surrest	Produkthaftung 495.713
9 (1x)	D Riemenspannung kontrollieren ! (siehe Betriebsanleitung !) UA Перевірити натяг ременя Дивись інструкцію по експлуатації	Riemenspannung regelmäßíg kontrollieren 494.355
10 (1x)	434.969.999 434.960 434.961 434.961 434.961	Klingenausrüstung 495.855
11 (1x)	690 mm 195 665.0002/18	Anbauhöhe Master 495.665.0003 Anbauhöhe Pro 495.XXX.xxxx



Position der Warnbildzeichen



Safety advice

Risk of slight or moderate injury through tractor's double-acting front lifting gear.

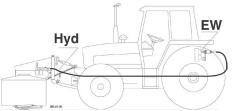
• Do not exceed the maximum lowering depth of the mower unit! This results in unacceptably high pressure on the limiting chains, which can break. In the most unpleasant case, this will result in injuries to persons in the danger area around the mower.

Attaching in general

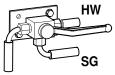
- 1. Observe safety tips in supplement A.
- 2. Attach the machine to the tractor's front lifting gear.
 - Secure locking bolts with linch pins.

Solving problems with hydraulic connection

If the tractor has no hydraulic connection at the front, then a hydraulic hose must be run from the rear to the front.

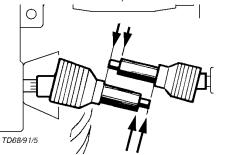


A switch between the front lifting gear (HW) and front control device (SG) via a three-way tap may be necessary with some tractors.



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).

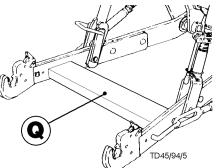


Parking the machine

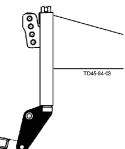
Park the mower only on firm and level ground, and ensure that it is stable.

Attaching problems

On lifting gear with a crosspiece (Q) between the lower links, damage could occur to the cardan shaft when lowering the attached machine.

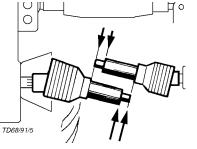


To avoid damage, an extension must be mounted between the lifting gear and the attachment frame.

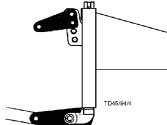


In a case such as this, please contact our Customer Service Dept.

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

Fenders and protective cloths

DANGER

Danger to life - due to rotating or ejected components

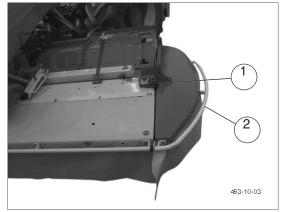
- Before starting work, check the protective devices for function, correct position and condition.
- Fold the guards down before starting work.
- Replace defective protective devices immediately.
- Manipulation or improper use of safety devices is not the responsibility of the manufacturer.
- Do not enter the protective facility!

Danger to life through rotating or ejected components when folding the guards up

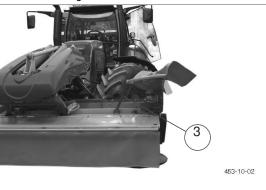
- Switch off the cutter bar drive.
- Wait for the cutter bars to come to a standstill before swivelling the mudguards and protective guards up.

The mudguards and protective cloths can be folded up for maintenance work.

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



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



Hydraulic side protection

Risk of slight or moderate injury through being crushed by the side guards.

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

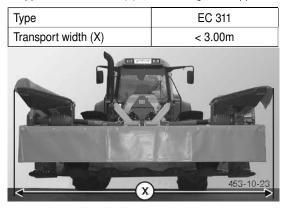
As an option, the side guards can be swivelled hydraulically with the control valve on the tractor.

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



Transport position

When the two protective elements (2) are swivelled up and snapped into the holder (3), the following width applies:



Road Transport

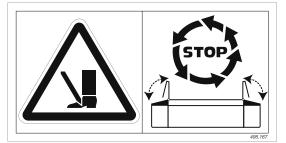
- Observe the statutory regulations for your country/state. Supplement C contains information on attaching a lighting system, valid for Germany.
- It is only permitted to drive on public roads as described in the chapter "Transport position".
- Secure the hydraulic lower link (U) so that machine cannot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

Working position

Before commencing work

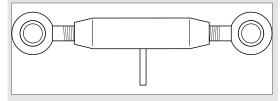
Always switch the p.t.o.drive on, only when all safety devices (covers, protective aprons, casings, etc.) are in proper condition and are attached to the machine in their safety positions.

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



Top linkage

Use a rigid upper link.



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General safety information

A DANGER

Danger to life due to unlocked or incorrectly locked hydraulics.

• Before starting the run, check that the transport lock has closed correctly. Otherwise a single operating error on the control unit can fold the machine down while driving.

Danger to life due to machinery tipping over while parked on unsuitable ground.

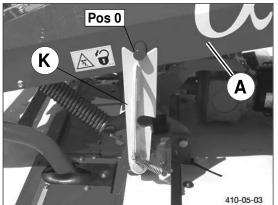
• Only park machinery on firm, level ground.

Risk of slight or moderate injury through tractor's double-acting front lifting gear.

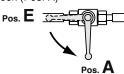
• Do not exceed the maximum lowering depth of the mower unit! This results in unacceptably high pressure on the limiting chains, which can break. In the most unpleasant case, this will result in injuries to persons in the danger area around the mower.

Parking position

Swivel the flap (K) upwards to park the mower unit (Pos 0).



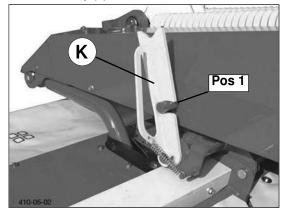
- Close stopcock (Pos. A)



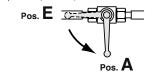
The Conditioner can only be dismantled if the Alpha-Motion unit is in position 0.

Transport position

The mower must always be locked during transportation. - Swivel flap (F) to "Pos. 1"



Close stopcock (Pos. A)



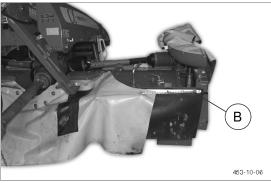
Mounting

- -. Mount the Expander (EX) in the correct position. Position A
 - before coupling to the tractor



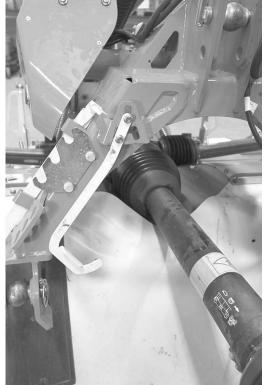
Position B

after coupling to the tractor and during mowing

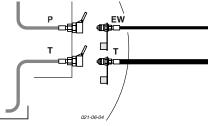


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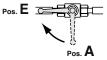
- Connect cardan shaft.
- Bring cardan shaft holder into park position



- Couple the hydraulic lines for lifting cylinder on the tractor's single-acting (SA) hydraulic circuit.

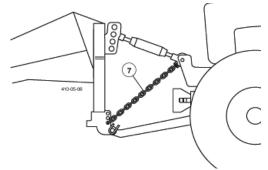


- Open shut-off valve (pos. E)
- Raise the mounting frame (MF) via the tractor's lifting gear

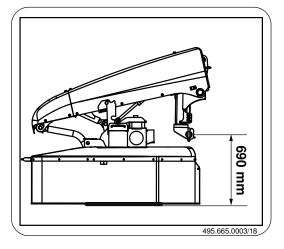


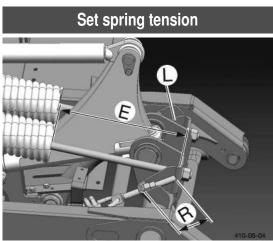
- Swivel the bracket (K) forward.
- Set working height at 1370 mm and secure with limiting chain (7). Only with Alphamotion

(The limiting chains (7) serve as setting aids!)



- Set lower link height at approx. 800 mm.





- E = Relieving spring
- R = Weight counterbalance: right
- L = Weight counterbalance: left

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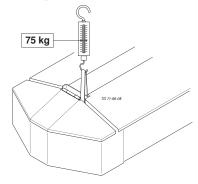
Cutter unit with swather

Туре	E	R	L
EUROCAT 311 alpha-motion	245 (mm)	55 (mm)	25 (mm)
EUROCAT 311 alpha motion MASTER	205 (mm)	80 (mm)	70 (mm)

Cutter unit with Conditioner ED

Туре	E	R	L
EUROCAT 311	180	45	45
alpha-motion	(mm)	(mm)	(mm)

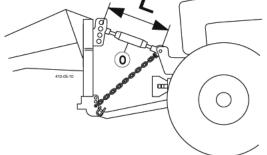
- The ground bearing load of the cutter bar is more important than the standard length values for the springs. It should be approx. 150 kg (approx. 75 kg left and right).



Operation

Set cutting height¹⁾

With upper link (O):



Altering the upper link length L +/- enables a cutting height difference of up to 6 cm.

When parking the mower, bring the mounting frame back into vertical position.

- Swivel the bracket (K) to "Pos. 2"

The hydraulic control valve for the front lifting gear must be locked in the set position when making adjustments and during work.

Safety advice

A DANGER

Life-threatening- by blades thrown away

- 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.

A DANGER

Life-threatening danger exists through ejected parts when removing clogging, changing blades or adjusting the machine.

- Stop tractor/trailer unit on level ground and apply tractor's brakes.
- Park the mower in working position.
- Before going back to the machine, make sure that the pto has stopped and the hydraulic hoses are depressurised.
- Remove the tractor key!

Life-threatening danger exists through falling off the machine.

- Do not climb onto the machine, or play on or around it.
- Do let anybody to climb onto the machine, or play on or around it.
- Before starting, make sure that no one is standing on the machine or inits danger area!

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

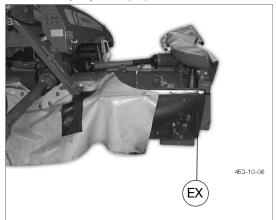
Important notes prior to starting work

1. Check

- Check condition of blades and blade holder.
- Check mowing drums for damage (see chapter "Maintenance").
- 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.
 - Hook up expander (EX)



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



4. Prevent any damage!

 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.

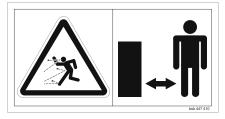
In the event of a collision

- Stop immediately and switch off the drive.
- Carefully check the implement for damage. In particular check the mowing drums and their drive shafts (4a).
- Have the implement checked also by a specialist workshop if necessary.

After contact with a foreign object

- Check the condition of knives and the knife fixings.
- Retighten all blade screw connections.
- Check the implement carefully for damages. You must check in particular the mowing drums and their drive shafts.
- 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.

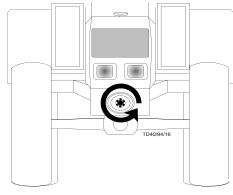


- If a noise level of 85 dB (A) is reached or exceeded, the farmer must have suitable hearing protection in readiness (UVV 1.1 §2).
- If a noise level of 90 dB (A) is reached or exceeded, the hearing protection must be worn (UVV 1.1 § 16).

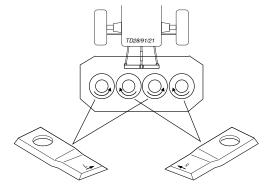
Observe the direction of rotation of the mowing drums.

General

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

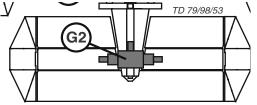


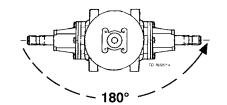
The mower drums direction of travel is OK if the outside drum is turning inward when looking from the front.



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







Mowing

Danger to life due to parts being thrown off.

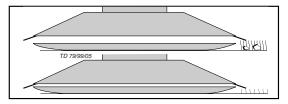
- Before starting to work, check all guards to ensure that they are in the correct position and secured.
- Also check whether the protective devices have defects which impair their function.
- Stones and other objects can be picked up and ejected when mowing. Direct all persons out of the danger area.

Operation

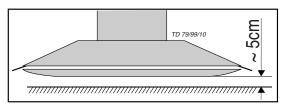
Set cutting height by turning upper link spindle (mower drum incline, max. 50)

Central cutting height adjustment

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

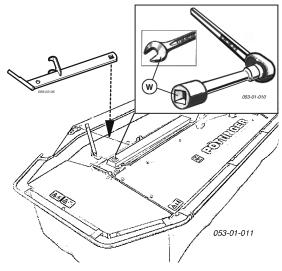


1. Lift unit with loader (~5 cm).



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
- Retighten all screws after the first hours of operation.

Distance plates

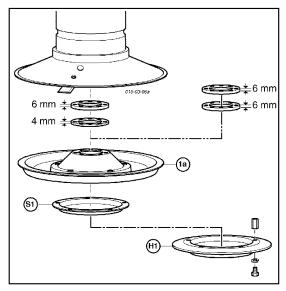
support.

· 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.

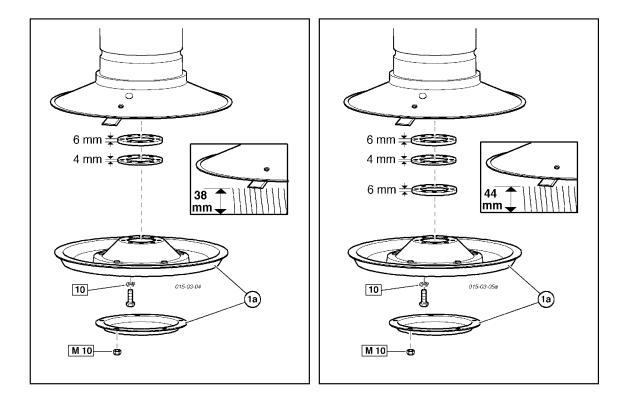


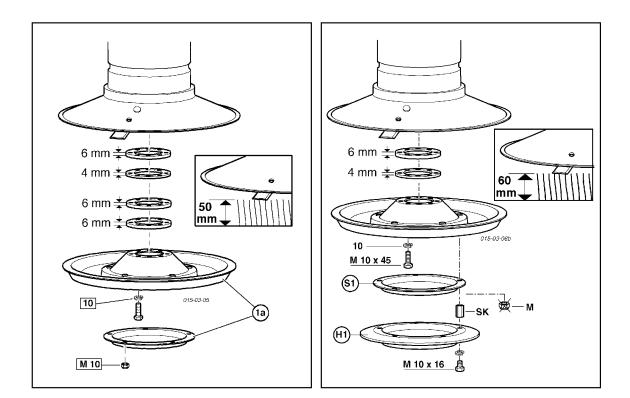
Inserting distance plates

- 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.





Mowing with the conditioner

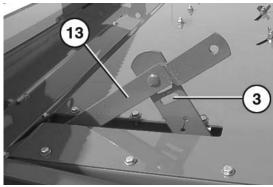
The conditioning effect can be modified.

- The distance between the adjusting strip and the rotor is set using lever (13).

The conditioning is most intense with the lever at the bottom of its travel

(pos. 3)

However, the fodder must not be beaten.



Correct V-belt tension

Control size X2

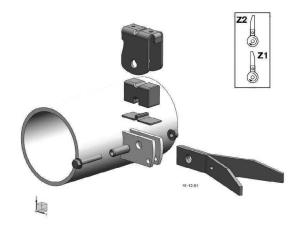
EUROCAT 311 alpha-motion:	X2 = 193 mm
ereses	
and the second s	119-01-27

Rotor tines position

Pos. Z1: Rotor tines position for normal operating conditions.

Pos. Z2: For difficult conditions of use, if e.g. the fodder wraps around the rotor.

Turn the rotor prongs 180° (pos.Z2). This tine position solves the problem in most cases. However, the conditioning effect is thereby somewhat reduced.



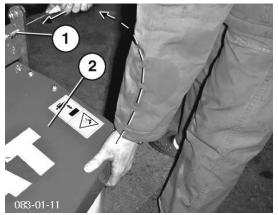
Maintenance of the rotor tines:

1. Replacing tine fixings

If signs of wear are found on the tine fixings, then the affected component(s) must be replaced. (tines, bolt, slotted spring pin ...)

Uncoupling and coupling the conditioner

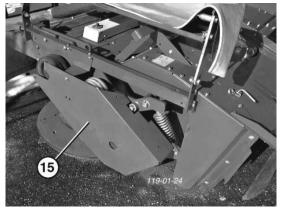
- 1. Loosen locking mechanism (1) and swing protection (2) up.
 - engage protective frame in holder (3)



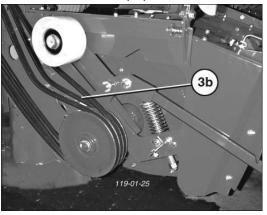
- left and right



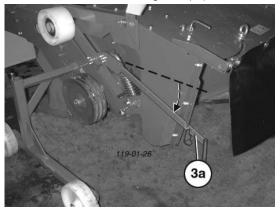
2. Remove the belt protection (15)



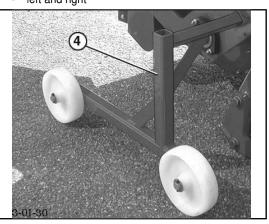
3. Remove belts (3b)



- Release the tension using lever (3a) beforehand

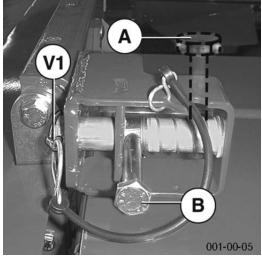


4. Fit transport wheels (4)left and right

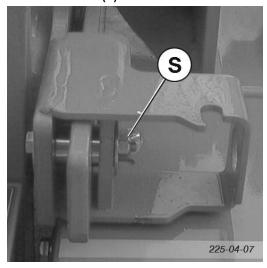


TINE CONDITIONER (EN

- 5. Release left and right locks
- Spring loaded positioning bolt up to 2004 model Remove the linchpin (V1) and unlock the bolt



- Pos A = released Pos B = locked
- Screwed in from 2004 model Remove screw (S)

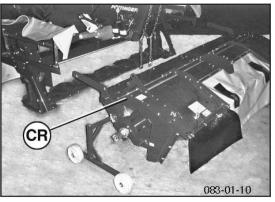


(Spring loaded positioning bolt = optional)

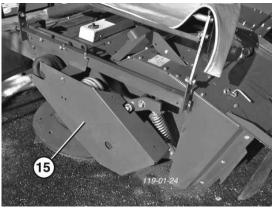
Life-threatening danger exists when detaching the conditioner. If the conditioner is detached, the cutting blades are freely accessible.

 For mowing without a conditioner, specially designed protective devices for this type of operation must be fitted to the mower bar.

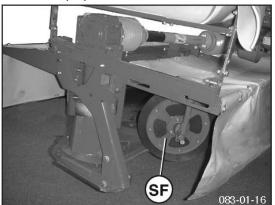
These safety elements are not included in the scope of delivery for a new machine with conditioner. The parts must be ordered additionally (see spare parts list, component: "REAR PROTECTION"). 6. Always park conditioner (CR) stably.



7. Mount the guard (15)



Installation of the conditoner (CR) or the swath formers (SF)



- is carried out similarly to removal but in the reverse order.

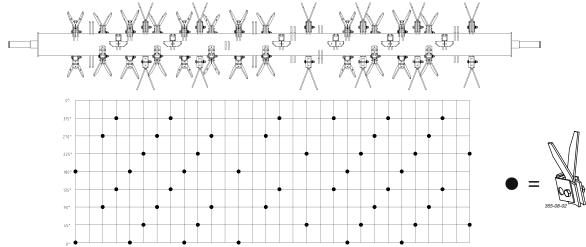
EN

Position of the rotor tines on the conditioner

Risk of material damage during operation with unbalance.

- Always remove both opposite tine holders and install them if you want to remove damaged tines.
- In case of noticeable vibrations, stop immediately and check the tine conditioner for lost tines. If necessary, remove the tine and the opposite bracket.

EUROCAT 311



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Mowing without a conditioner

Pay particular attention if the conditioner has been removed from the cutter bar!

Note

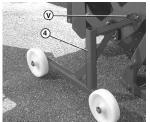
A machine with a conditioner (CR) as a complete unit is fitted with proper protection elements. However, if the conditioner has been removed then the mower unit is no longer completely covered. In this case, mowing must not take place without fitting additional safeguards!

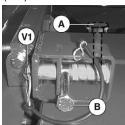
Danger to life - with the conditioner dismantled. If the conditioner is dismantled, the mower blades are freely accessible. There is danger to life!

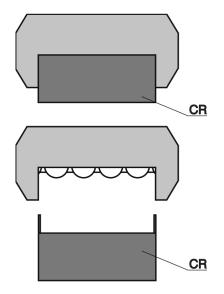
- For mowing without a conditioner, specially designed safeguards for this type of operation must be fitted to the mower bar. Mowing must not be carried out without these protective elements!
- These safeguards are not included in the scope of delivery for a new machine with conditioner. The parts must be ordered additionally (see spare parts list, component: "REAR PROTECTION")..

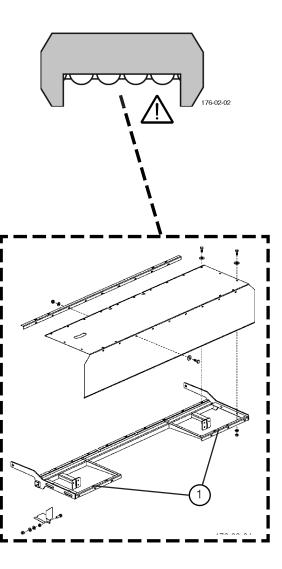
Optional equipment

- Chassis (4)
- Spring-loaded fixing bolts (A-B)





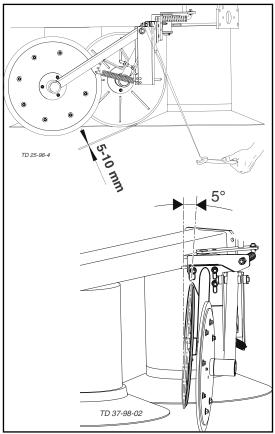




Adjustment of both swath makers ⁽⁸⁾

Leading swath disc

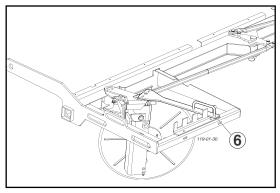
- Distance between mowing plate and swath disc "5-10 mm ".
- inclination 5°



Adjustment of swath width (8)

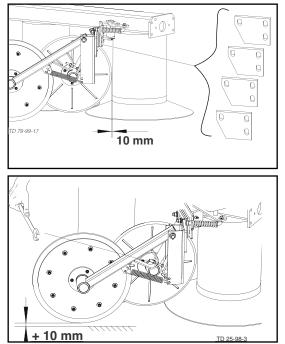
The swath width can be altered by changing the position of the levers (6).

If an obstruction appears then the swath width is to be increased.



Rear swath disc

Adjustment "+10 mm".



Assembly of the conveyor braces

To avoid clogging when working with heavy feed, you can assemble additional conveyor braces on the inner mowing drums.

Setting "8 - 10 cm"

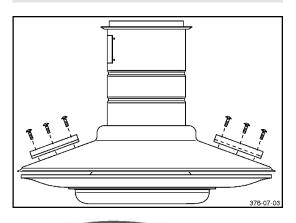
The conveyor braces cannot be used together with a conditioner



Assembly of the conveyor bars

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

Conveyor flights cannot be used together with a conditioner!





GENERAL MAINTENANCE

Safety advice

A 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 disks) have come to a halt. (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 sub-areas you are under in an adequate way.

Risk of serious injury through escaping oil.

- 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.

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

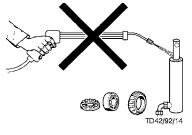
Tine bolt connections on the rake and tedder

Spare parts

- a. Genuine parts and accessories are specially designed for the machines.
- 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. Any unauthorised modifications and/or fitting of components and attachments to the machine negates any liability on the part of the manufacturer.

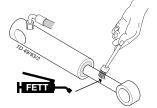
Cleaning of machine parts

- Be advised! 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 plan 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.
- Disconnect terminal, store dry and protected from frost.

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Articulated shafts

See information in the supplement

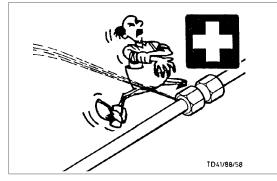
Please observe the following for maintenance!

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 piping 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.

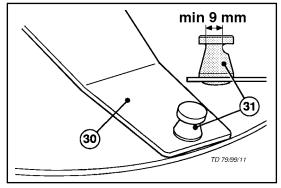
Hose lines are subject to natural ageing. The period of use should not exceed 5 - 6 years.

Checking the mowing blades and the mowing blade holder

Checking interval:

- Checking interval: every 50 hrs.
- Shorten control interval when mowing on stony terrain or in difficult operating conditions
- Immediately check after driving over a solid obstacle (e.g. stone, wood piece, ...).

Control criteria:



- * The mowing blades on a mowing drum must be evenly worn (danger of imbalance), otherwise they must be replaced by new ones. Always change all blades on a drum at the same time.
- * Bent, damaged or worn mowing blades, blade holders (30) or blade bolts (31) must not be used.

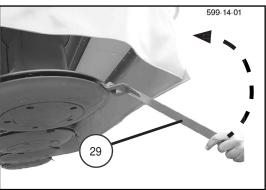
Checking procedure

As described in chapter "Changing the Mowing blades"

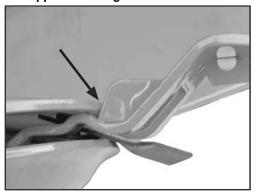
Changing the mowing blades and the mowing blade holder

Risk of injury resulting in death or other serious injury through broken off and ejected mowing blades or other components.

- Remove damaged, deformed or heavily worn components or mowing blades immediately.
- Always change all mowing blades on each mowing drum.
- 1. Place the cutter 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.



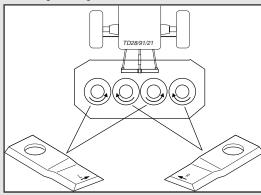
Make sure that the blade wrench edge lies on the upper drum edge.



Then push the blade wrench (29) upward, and with that the blade holder (30) moves downward.

- The mowing blade (M) is hooked onto the bolt (31).
- 3. Remove mowing blade
 - -The mowing blade (M) is hooked onto the bolt (31).
 - Remember the letter ("L" or "R") engraved on the mower blade. Only use the new mower blade if it carries the same letter as the old mower blade.

- Fit the "L" designated blades only on the anticlockwiseturning mowing drum.
- Fit the "R" designated blades only on the clockwiseturning mowing drum.

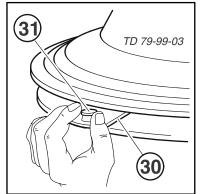


4. Remove fodder residue and dirt

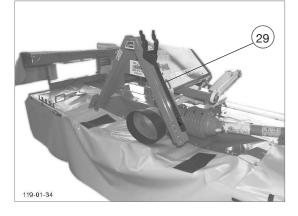
- from around the pin (31).

5. Check

- Check the blade bolt (31) for damage, wear and tight fitting
- Check the blade holder (30) for damage, change in position and fitting

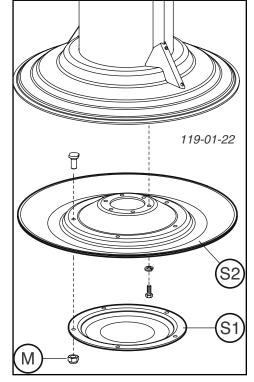


- 6. Fit mower blades and remove lever (29)
- 7. Place lever (29) in the two brackets.



Cutting disc

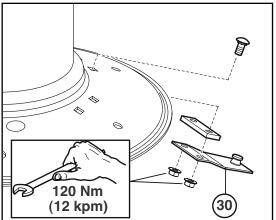
- For worn mowing discs in the mower blade area, proceed as follows:
- Remove both lower slide discs (S1, S2).



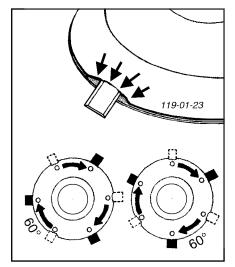
Loosen the screws of the blade brackets (30).

•

•



Shift the blade bracket about 60°.



- Tighten the screws well (120 Nm)
- Check for tightness after several hours of operation.
- Refit both lower slide discs correctly.

Greater cutting height with high-cut mower disc

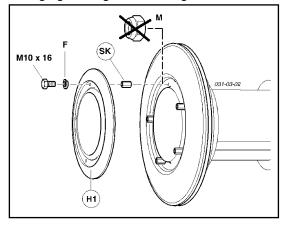
Spacer discs (standard fittings).

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

High-cut 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-cut mowing disc



- 1. Remove the nuts (M)
- 2. Fit the high-cut mowing disc (H1)
 - Screw the hexagonal spacer elements (SK) onto the threaded bolts by hand first and then tighten them
 - Fit the high-cut mowing disc (H1) using the M10 x 16 hexagonal screws and the locking ring (F)

3. Check all screw fittings for tightness after several hours of operation.

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

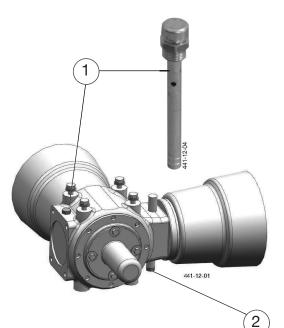
Angular gear

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

Oil quantity:

0.7 litre SAE 90

- 1... Oil filling screw, oil dipstick and breather
- 2... Oil drain screw



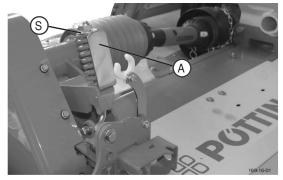
V-belt drive

- Check V-belt tension:
 - After 1h, after 5h, after 20h and then occasionally.

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 are damaged or twisted, then all 4 V-belts must be replaced.

NOTE

Physical damage to ball bearings and shafts due to overtensioned V-belts.

• Be aware of the correct V-belt tension.

MOUNTING OF MOWING BLADE CHECKING WEAR

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Wear part control

Risk of injury resulting in death or other serious injury if the holders and bolts of the mowing blades are worn out or damaged by parts thrown away.

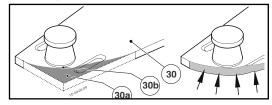
- Check the holders (30) and the bolts (31) of the mowing blades for damage or deterioration:
 - Before each start-up.
 - During operation
 - Immediately after driving over a solid obstacle (e.g. stone, wood piece, metal ...).
- If you notice any wear or damage to the mowerdon't go on!

The following parts are subject to wear:

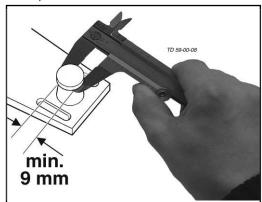
- Cutting blade brackets (30)
- Cutting blades pins (31)

Procedure - Visual control

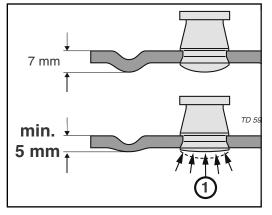
- 1. Remove the cutting blades.
- 2. Remove the feed residues and dirt
- from around the bolt (31).
- 3. Check the following aspects
 - the wearing area (30a) is worn up to the pin of the mowing blade (30b)



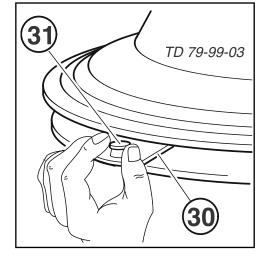
- the pin diameter is **9 mm** or less



 the profile is only 5 mm or less (original measure = 7 mm)



- the riveted joint (1) of the pin is worn
- the pin (31) of the blade is no longer firmly seated



- 4. Stop mowing when you have noticed at least one of these signs of wear. Don't mow any more!
- Replace the wearing parts before continuing to mow, observing the safety and danger notes in the chapter of maintenance.

Technical data

Description	n	EUROCAT 311 alpha-motion Type 3550/Type 3551
Coupling		3-point coupling Cat. II
Working wid	rking width 3.05 m	
Transport width		3 m
No. of mowe	er drums	4
Number of cutters per drum		3
Area output		3.2 ha/h
Drive speed	(r.p.m.)	540 / 1000
Cardan shaf	t overload safeguard	1500 Nm
Power requir	rement without a conditioner with conditioner	45 kW (60 hp) 52 kW (70 hp)
Weight	alpha-motion alpha-motion plus alpha-motion plus ED alpha-motion MASTER	870 kg 895 kg 1070 kg 820 kg
Permanent s	sound emission level	91.1 dB (A)

All data subject to change without notice

Optional equipment

- Conditioner
- Lighting equipment
- Warning signs
- 8 spacer discs

Necessary connections

- 1 single-action hydraulic plug connection (min. tractor requirements) Min. pressure: 80 bar Max. operating pressure: 180 bar
- 7-pin lighting (12 volt) connection

Weight: Variations are possible depending on machine features.



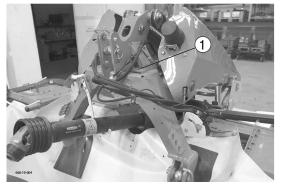
Type plate

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

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

Type plate position

The type plate (1) is located on the right-hand side of the attaching frame, at the tractor end.



The defined use of the mower unit

The "EUROCAT 311 alpha-motion (Type PTM 3551)", "EUROCAT 311 alpha-motion MASTER (Type PTM 3550)" mowers are designated exclusively for normal use in agricultural work.

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.

SUPPLEMENT

E١



- 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!



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

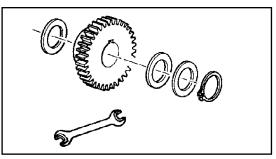
a. After each repair of the brakes, a functional check or a test drive must be carried out to ensure that the brakes function properly. New drums or brake linings only have optimum braking effect after a few braking operations. Violent braking should be avoided.

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
- 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

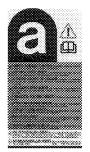
a. All protection devices must remain on the machine and be maintained in proper condition. Replacement of worn or damaged covers or guards is required in good time.

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.) Asbestos

a. Certain sub-supplied components of the vehicle may contain asbestos due to technical reasons. Please observe the marking of spare parts.

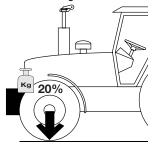


11.) Transport of people prohibited

- 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.

12.) 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!

13.) 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.

14.) Cleaning the implement

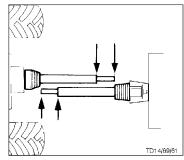
a. Do not use high-pressure washers for the cleaning of bearing and hydraulic parts.

Adapting cardan shaft to tractor

Material damage - due to inferior spare parts

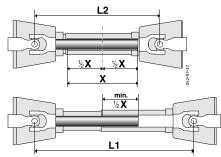
• Only use the cardan shaft supplied or stated; otherwise the warranty claims for any damage are not valid.

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



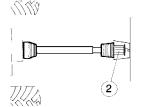
Cutting to length

- To adapt the length, place cardan shaft halves next to each other in the shortest operating position (L2) and mark.



Caution!

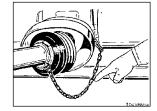
- Note the maximum operating length (L1)
 - Aim at the maximum possible tube superimposition (min. $1/_2$ X)
- Shorten the inner and outer protective tube equally
- Attach overload protection (2) to the machine!



• Before each cardan shaft start-up, check that the catches are securely engaged.

Safety chain

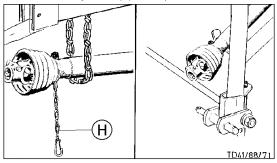
- Use chain to prevent tube guard from rotating. Ensure sufficient swivel space for the cardan shaft!



Instructions for working

Do not exceed the permitted r.p.m. when using the machine.

- The machine can still run-on after the p.t.o has been turned off. Work can only be carried out on the machine when it is at a complete standstill.
- 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.



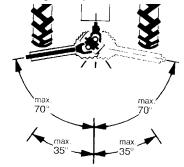
Wide-angle joint:

Maximum angle for operation and at standstill 70°.

Standard joint :

Maximum angle at standstill 90°.

Maximum angle for operation 35°.



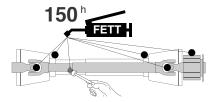
Maintenance



Mortal danger - due to worn covers

- Replace the worn covers immediately
- Lubricate with a brand-name grease before starting work and once every 150 operating hours.
- Before any extended period of non-use, clean and lubricate cardan shaft.

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

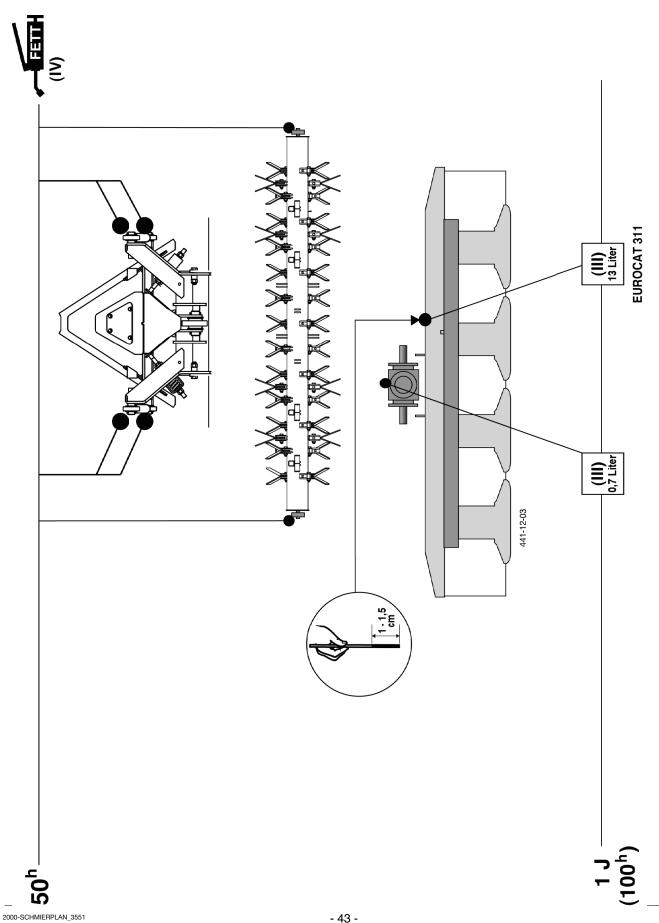


Lubrication chart

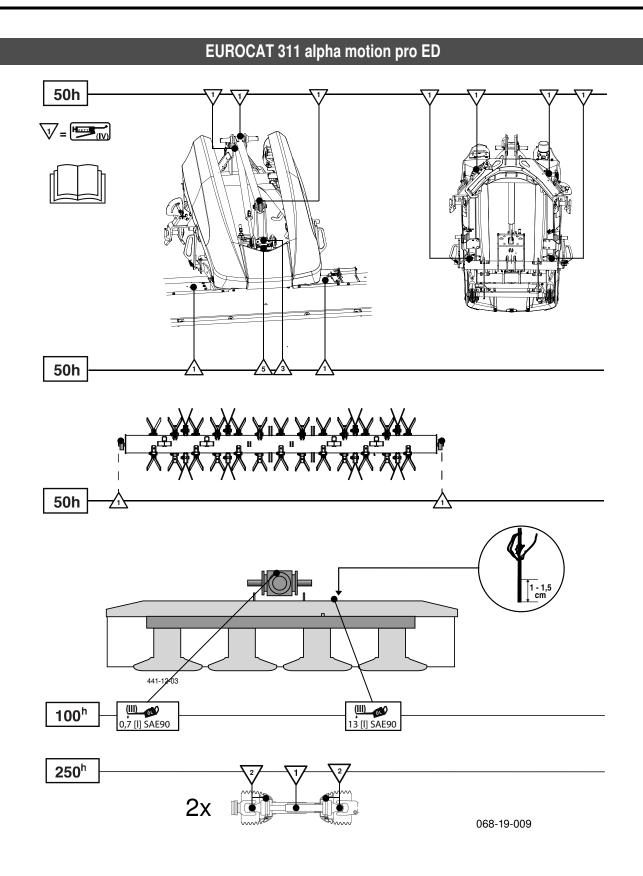
 \pmb{X}^h after every X hours operation 40 F all 40 loads 80 F all 80 loads 1 J once a year 100 ha every 100 hectares BB if necessary HEELL -GREASE 610 Oil √_= Number of grease nipples Number of grease nipples (III), (IV) see supplement "Lubrificants" Litre [I] - -_ Variation See manufacturer's instructions Ū Rotations per minute Always screw in measuring stick up to stop.



EUROCAT 311 alpha motion master ED







EN			Lubricants	ants				
			Edition 2013	£				
The performance and the lifetime of th The applicable lubricants are symboli companies is not said to be complete.	e lifetime of the farr s are symbolized (be complete.	The performance and the lifetime of the farm machines are highly depending on a carefu The applicable lubricants are symbolized (eg. "III"). According to this lubricant product companies is not said to be complete.		lication of correct l ification, quality an	ubricants. our schedule id brandname of oil coi	enables an easy selec npanies may easily be	Il maintenance and application of correct lubricants. our schedule enables an easy selection of selected products. code number the specification, quality and brandname of oil companies may easily be determined. The listing of the oil	
Gear oils according to operating instructions - however at least c - Take out oil drain plug, let run out and duly dispose waste oil.	perating instruction: 3, let run out and du	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.	ar.					
Before garaging (winter season) an oil change a product as indicated on the reverse of this page.	season) an oil chai he reverse of this p	nge and greasing of all lubrica page.	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.	ed, blanc metal pa	rts outside (joints, etc.)	have to be protected a	igainst corrosion with a group "lv"	
Corrosion protection: Fluid 466	lid 466							
Lubricant indicator	_				>	7	II	
required quality level niveau	HYDRAULIKöL HLP DIN 51524 Teil 2	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	

Corrosion protection: Fluid 466

See notes: ** ***

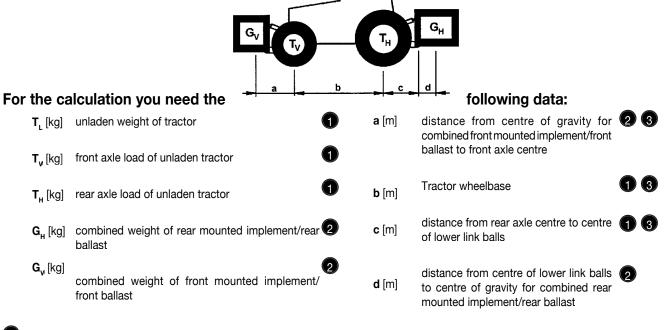
GETRIEBEÖL EP 90 GETRIEBEÖL ARALUB HL 2 ARALUB FDP 00 GETRIEBEÖL MZ 90 MULTIHYP AVIAMEHRZWECKFETT ARALUB FDP 00 GETRIEBEÖL MZ 90 MULTIHYP AVIAABERZWECKFETT A 85W-140 AVIA ABSCHMIERFETT GETRIEBEFLIESSFETT NUTTI FETT 2 MULTI FETT 2 GETRIEBEFLIESSFETT HYPOID 80W-90 MULTI FETT 2 GETRIEBEFLIESSFETT HYPOID 80W-90 PLANTOGEL 2 N RENOLIT DURAPLEX GEAR OIL 90 EP ENERGREASE LS-EP 2 FLIESSFETT NO HYPOGEAR 90 EP ENERGREASE LS-EP 2 FLIESSFETT NO HYPOGEAR 90 EP ENERGREASE LS-EP 2 FLIESSFETT NO
MZ 90 M MULTIHYP AVIAMEHRZWECKFETT AVIA ABSCHMIERFETT AC MULTI FETT 2 90 SPEZIALFETT FLM 140 PLANTOGEL 2 N EP ENERGREASE LS-EP 2 0 EP CASTROL GREASE LS-EP 2 0 EP CASTROL GREASE LS-EP 2
MULTI FETT 2 SPEZIALFETT FLM PLANTOGEL 2 N ENERGREASE LS-EP 2 CASTROL GREASE I M
ENERGREASE LS-EP 2
CASTROI GREASE I M
W-140
GETRIEBEÖL MP 85W- 90 GETRIEBEÖL B 85W-90 LITORA 27 GETRIEBEÖLC 85W-90 LITORA 27
TRANSELF TYP B 90 85W-140 EPEXA 2 GA O EP TRANSELF EP 90 85W-140 ROLEXA 2 POLY G O MULTI 2
GEAROIL GP 80W-90 GEAROIL MULTI PURPOSE FIBRAX EP 370 GP 85W-140 GREASE H
HYPOID GA 90 HOCHDRUCKFETT LT/ GETRIEBEFETTM0370 EVVA CA 300 SC 280 SC 280
85W-90 PONTONIC MARSON EP L 2 5W-140 EFSAL OIL
90 • AGRIFARM HITEC 2 -140 • AGRIFARM PROTEC 2 - RENOLIT MP • RENOLIT FLM 2 • PLANTORE1 2.0
GEAR 80W90 • AGRIFARM HITEC 2 GEAR 85W-140 • AGRIFARM PROTEC GEAR LS 90 • RENOLIT MP • RENOLIT FLM 2 • PLANTOGEI 2-N
PERFORMANCE 2 B SAE 30 8000 TOURS 20W-30 TRACTORELF ST 15W-30 PLUS MOTORÖL 20W-30 UNIFARM 15W-30 SUPER EVVAROL HD/B SAE 30 UNIVERSAL TRACTOROIL SUPER DELTA PLUS SAE 30 DELTA PLUS SAE 30 SUPER UNIVERSAL OIL • AGRIFARM STOU MC 10W-30 • TITAN UNIVERSAL HD
HLP 32/46/68 MOTOROL 100 MS SAE 30 MOTOROL 104 HLP-M M32/M46 CM 15W-40 AUSTROTRAC 15W-30 HLP-M M32/M46 PERFORMANCE 2 B SAE 30 8000 TOURS HYDRELF 46/68 PERFORMANCE 2 B SAE 30 8000 TOURS HVDRELF 46/68 PERFORMANCE 2 B SAE 30 8000 TOURS HVDRELF 46/68 PLUS MOTORÖL 20W-30 UNIFARM 15W-30 NUTO HP 32/46/68 PLUS MOTORÖL 20W-30 UNIFARM 15W-30 NUTO HP 32/46/68 SUPEREVVAROL HD/B SAE 30 UNIVERSAL ENAK HLP 32/46/68 SUPEREVVAROL HD/B SAE 30 UNIVERSAL HYDRAN 32/46/68 SUPEREVVAROL HD/B SAE 30 UNIVERSAL HYDRAN 32/46/68 SUPEREVVAROL HD/B SAE 30 UNIVERSAL TRACTOROL SUPER TRACTOROL SUPER HYDRAN 32/46/68 DELTA PLUS SAE 30 TTTAN HYD 1030 AGRIFARM STOU MC 10W-30

Company	_				٨	IA	IIIA	NOTATIONS
SHELL	TELLUSS32/S46/S68TELLUS 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 AL VANIA EP 2	SPEZ. GETRIEBEFETT H SIMMNIA GREASE O	A E R O S H E L L G R E A S E 22 DOLIUM GREASE R	SPIRAX HD 90 SPIRAX HD 85W-140	 The international specification J 20 A is necessary
TOTAL	AZOLLAZS32,46,68EQUIVIS RUBIA H 30 ZS 32, 46,68 MULTAGRI T	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	for compound operation with wet
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	brake tractors. ** HLP-(D) + HV hydraulic oils
VEEDOL	ANDARIN 32/46/68	HD PLUS SAE 30	MULTIGRADE SAE 80/90 MULTIGEAR B 90 MULTIGEAR C SAE 85W-140	SAE 80/90 MULTIPURPOSE 85W-140	-	-	MULTIGEAR B 90 MULTI C SAE 85W-140	ulic vege
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	oil basis, biodegradable and therefore environmentally
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	ЕЕТТ 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	triendly.

Combination of tractor and mounted implement

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 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.



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_{VImin}

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

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.

$$G_{H \min} = \frac{G_{V} \bullet a - T_{H} \bullet b + 0,45 \bullet T_{L} \bullet b}{b + c + d}$$



(If the front hitched implement (G_v) does not reach the minimum required ballasting Front ($G_{v min}$), the weight of the front hitched implement must be increased to the minimum ballasting 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 the rear hitched implement (G_{H}) does not reach the minimum required ballasting Rear ($G_{H_{min}}$), the weight of the rear hitched implement must be increased to the minimum ballasting 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.

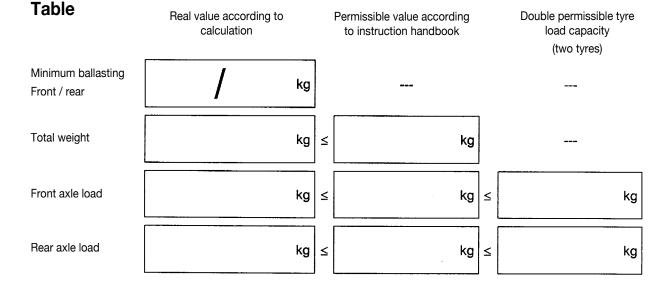
5. CALCULATION OF THE REAL REAR AXLE LOAD T_{H tat}

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

6. TYRE LOAD CAPACITY

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

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



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!

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

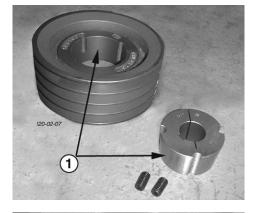
- When the drive has been operating under load for a short period (half to on hour) check and ensure that the screws remain at the appropriate tightening torque.
- In order to eliminate the ingress of dirt fill all empty holes with grease.

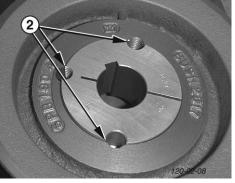
Removal

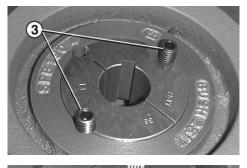
1. Slacken all screws. Depending on the size of the bush remove one or two.

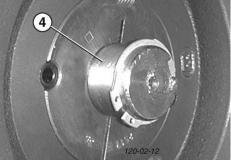
After oiling point and thread of grub screws or under head and thread of cap screws insert them into the jacking off holie(s) in bush (Pos. 5).

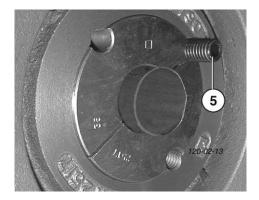
- 2. Tighten screw(s) unitormly and alternately until the bush is loose in the hub and pulley is free on the shaft.
- 3. Remove pulley bush assembly from shaft.











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



mower Type Serial no.

EC Conformity Declaration

Original Conformity Declaration

Name and address of the manufacturer:

PÖTTINGER Landtechnik GmbH Industriegelände 1 AT - 4710 Grieskirchen

Machine (interchangeable equipment):

EUROCAT 311 alpha-motion MASTER	EUROCAT 311 alpha-motion PRO
3550	3553

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

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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