

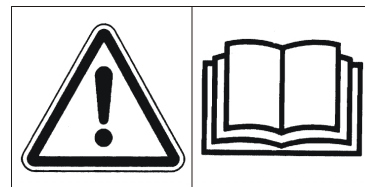
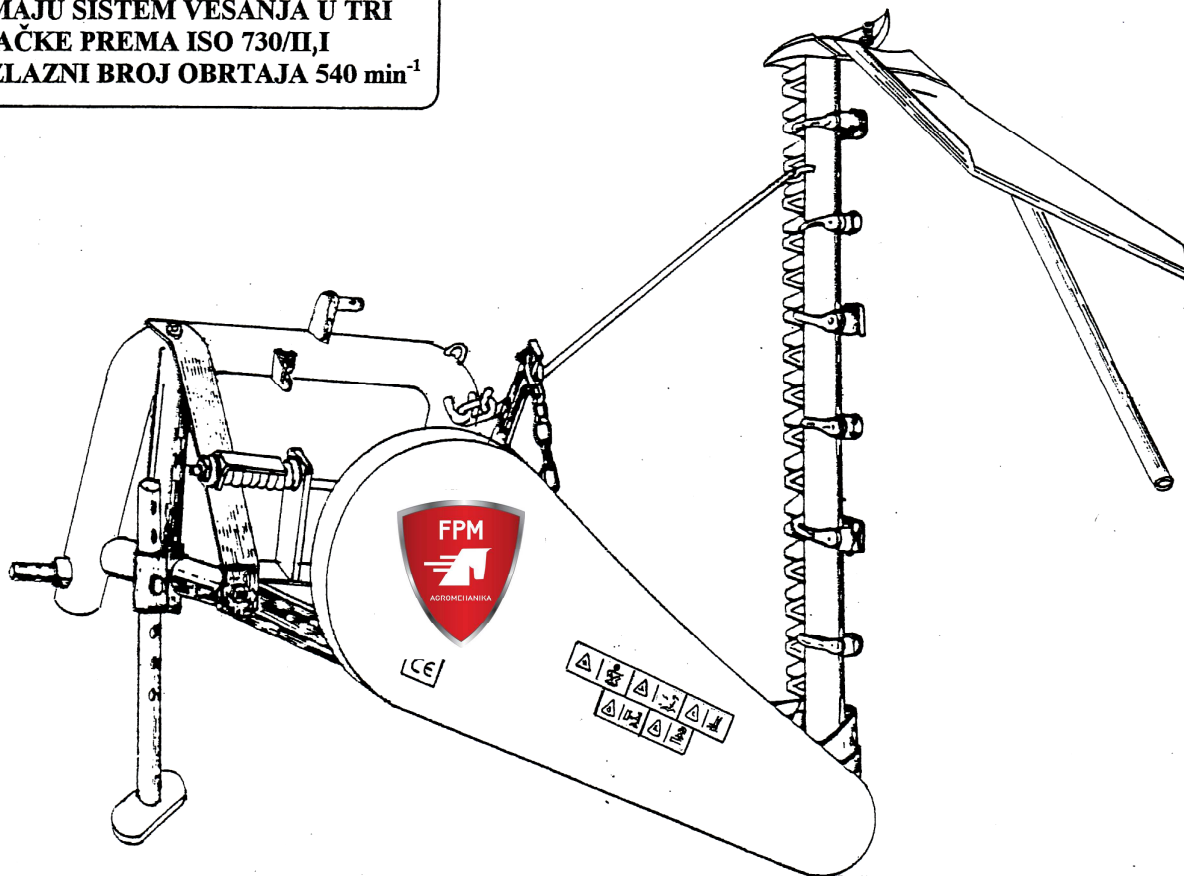


TRACTOR MOWERS WITH TWO MOVABLE CUTTING BARS

FPM 804 209-grasp 1.25
m

FPM 804 218-grasp 1.60 m

KOSAČICE SE AGREGATIRAJU
NA MALE TRAKTORE KOJI
IMAJU SISTEM VEŠANJA U TRI
TAČKE PREMA ISO 730/II,I
IZLAZNI BROJ OBRTAJA 540 min⁻¹



The mower is aggregated to small tractors that have a three-point hanging system acc.to ISO 730/II and number of output rotations 540min⁻¹

04.2011.

26924 INSTALLATION/HANDLING/MAINTENANCE LIST OF SPARE PARTS

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WARNING FOR YOU, USER

By purchasing this machine, you made a wise choice. It is the result of many years of contemplation, research and development. You, like thousands of other users, will realize that you own the best that the technique, knowledge and testing in the field has created. You bought a reliable machine, but only if you use it properly, you can expect a good performance and a long service life.

This manual gives you all the information you need to achieve the best possible efficiency with your machine. This effect largely depends on how well you read and understand this manual and apply this knowledge. It's a simple machine, but often you can overcome the defects that are obvious and prove to be bad work, which is often due to neglecting the natural wear of parts or the fact that the machine is not well tuned. Therefore, do not pretend to know how the machine is used and maintained before you read this manual, which you need to keep at hand.

Our service dealers and sales service centers with their trained staff can offer you all the original parts of tractor mowers for servicing. These parts are manufactured and carefully inspected in the same factory where the mower is made, in order to ensure high quality and precise assembly at each replacement.

REAR TRACTOR MOWER WITH TWO CUTTING BARS IS PRODUCED BY: FPM AGROMECHANIKA DOO BOLJEVAC

The rear tractor mower meets the criteria prescribed by the Rules on the Safety of Machines ("Official Gazette of the Republic of Serbia", No. 13/2010), especially regarding the stability and protection of parts and assemblies that could endanger the safety of the operator by their function and shape.

TRAINING: FPM Agromehanika AD constantly strives to improve its products and therefore reserves the right to make changes or improvements when needed, without any obligation to modify or supplement previously manufactured or sold equipment.

The information in this manual is correct at the date of issue.

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FPM AGROMECHANIKA AD BOLJEVAC

**THE CERTIFICATE ON OCCUPATIONAL SAFETY MEASURES IS A CONSTITUENT OF
THE INSTRUCTIONS FOR HANDLING AND MAINTENANCE**



Issued by: FPM AGROMECHANIKA AD Boljevac
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WARNING FOR YOU, USER

It is important that the cardan shaft you attach to your mower with two cutting bars is of the prescribed dimensions. Therefore, it is necessary to obtain a cardan shaft of the following characteristics:

- wrinkle 35 JUS M. L1.005 or ISO 500 at both ends of the cardan shaft
- continuous torque $M_r = 130 \text{ Nm}$.

The cardan shaft is the product of the company "Pobeda" FKL - Temerin and it can be purchased under the label:

- 05B - 790 - 10.10 - 10.10

IMPORTANT: If you do not comply with the warning, the factory will not be liable for damages or fractures on the tractor, cardan shaft or the mower.



READ CAREFULLY!

In this manual and on the machine you will find warning labels, "WARNING" "CAUTION" and "DANGER". Warnings aim to draw attention to the personal caution and caution of those who work with you because they also need to read it.

PERSONAL SAFETY

WARNING: The word "WARNING" is used where you need to be careful to protect the operator and other persons from an accident.

CAUTION: The word "CAUTION" indicates the possibility of serious injury to the operator and personnel that may occur suddenly. It is a commonly used word as a warning to the operator and other people to prevent surprises in using the mower.

DANGER: The word "DANGER" denotes what can not be done because it entails a risk.

THERE ARE ADDITIONAL WARNINGS SUCH AS "RECOMMENDED" AND "IMPORTANT", DENOTING SPECIAL INSTRUCTIONS WITH REGARD TO THE SAFETY OF THE REAR TRACTOR MOWER.

SAFETY OF THE TRACTOR MOWER WITH TWO CUTTING BARS

NOTE: THIS WARNING DENOTES THE POSSIBILITY OF DAMAGE TO MOWER, IF YOU DO NOT COMPLY WITH THE INSTRUCTIONS.

IMPORTANT: THE READER IS INFORMED ON WHAT THEY SHOULD KNOW TO PREVENT MALFUNCION OF THE MOWER, IN CASE THEY MISS IT.

WARNING!

IF YOU DO NOT COMPLY WITH THE "WARNING", "CAUTION" AND "DANGER", SERIOUS INJURIES MIGHT OCCUR.

LIMITED WARRANTY

The factory provides a warranty in accordance with the Law on Standardization, the Rulebook on the Safety of Agrigultural Machines (Off.Gaz.of RS no.13/2010) for each original piece of a new mower delivered to the user by the sales network FPM Agromehanika AD Boljevac, which guarantees at the time of delivery, that every part of the mower is new, free of material defects, and that the tractor mower with two cutting bars is given a warranty for a period of one year from the date of delivery to the user, provided that the machine is used and serviced in accordance with the recommendations in this INSTRUCTION MANUAL for maintenance and handling.

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EXCEPTIONS:

1. Parts made of wood are not covered by the warranty.
2. Parts not manufactured by FPM Agromehanika AD Boljevac (tires, plastics, belts, cardan shafts, cardan shields, hydraulic cylinders with connection hoses, etc.) are not covered by this warranty, but by the manufacturer's warranty

3. Parts that are normally consumed in exploitation, such as: wedge belts, discs, cutting blades, tires, scrapers, cutter blades, sliders underneath the cutting machine, protective guard.

4. This warranty is not valid in case of poor use, improper or negligent use or damage due to an accident. The warranty ceases to be valid due to the use of non-original parts, and the factory is not responsible for the damage resulting from the transport.

THE FACTORY IS NOT RESPONSIBLE FOR LOSS OF THE PROFIT DUE TO MALFUNCTION OF THE MOWER OR THE FAILURE OF THIRD PARTIES, NOR FOR ADDITIONAL COSTS OF WORK ON REMOVAL AND REPLACEMENT OF PARTS.

The buyer is responsible and bear the costs of the following:

1. Normal maintenance, such as lubrication, oil retention, minor adjustments, and the like.
2. Transport of the mower where the service is performed in the warranty period and return.
3. Time of travel of the authorized service to the owner of the mower and return, or delivery and return of the mower from the workshop after the repair.

This warranty does not apply to the rear tractor mower with two cutting bars which has been modified without our explicit permission, or if it was performed by someone else, outside the authorized service.

The warranty is related to strict adherence to the warning:

- all the instructions in this manual must be respected and all shields are regularly reviewed and replaced,
as needed.

No warranty is given for products that are not new.

The people who just work in our factory are not officially representatives of the factory and do not have the right to assume any obligation on its behalf.

No warranty covers product equipment that is larger than that given, so the factory is not responsible for any injuries caused by such use.



SAFETY



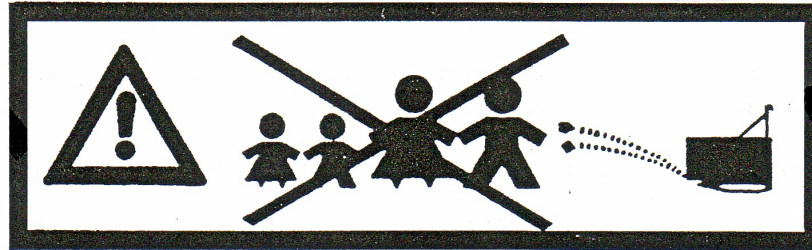
Most accidents occur during operation, maintenance, and transportation as a result of failure to comply with basic safety requirements. For this reason, you are the most important person to work and maintain your mower, whether you are working alone, with your family members or other people, be sure to read and respect the basic procedures of working with the mower that others need to hear as well. Additionally, warning labels are placed on the mower, which should draw attention to the mandatory safety.

- Before the start of operation, the operator must be absolutely familiar with the functioning of all parts of the mower, during work it may be too late.
- When attaching or unloading the mower from the tractor, always move the footrest to appropriate position (security).
- When you unfasten or attach the mower to the tractor, be very careful.

- Before loading check the load on the front wheels of the tractor. Secure weights on the foreseeable place.
- Take into account the permissible axle load and the overall weight.
- For the safety of driving, use a tractor with a cabin. All glasses during operation are closed.
- Before you start the mower, and for a very short distance, always secure it into transport position. Observe the permissible dimensions when transporting.
- Before you begin driving on public roads, make sure that the mower is secured for safe driving, and respect the rules of conduct in public transport.
- When required by special occasions, show the danger signs if not prohibited by traffic rules.
- Never transport other persons on the mower or tractor during work or transport.
- Never use the mower unattached and insecure for safe driving.
- Never drive the mower when it is turned on.
- Never turn on the trailer shaft of the tractor while the mower is in the transport position.
- Each time before using the mower, check that all parts (nuts, bolts and other) are sufficiently tightened.
- Before starting the adjustment, lubrication or cleaning of the mower, off the tractor and turn off the cardan shaft.
- In the case of damage, blades, disks or parts used for fastening (nuts, screws, etc.) are immediately replaced by the original parts of FPM Agromehanika AD Boljevac.
- Check for safety, whether the protective guard is properly secured and mounted on the frame, if it is damaged, it is immediately replaced by the original protective guard of FPM Agromehanika AD Boljevac.
- Wait for the rotary parts to stop before you reach the mower.
- As you work, you should always keep away from all parts of the mower.
- Never wear a wide outfit that can be wrapped around the rotary parts of the mower. The clothes should be attached to the body.
- The operator must be absolutely convinced that persons or animals are not in the work area of the mower, before starting the mower and starting to work.
- Remove foreign objects before starting work.

IMPORTANT: Do not work along the roads, pedestrian paths, public areas (parks, schools, etc.) and on stony grounds to avoid the risk of an accident, due to the rejection of parts on the building and person.

- Never work when driving backwards.
- After the end of the season with the mower, an authorized servicer needs to examine your mower, bring it to the proper condition, especially the cutting blades, and fix all parts (screws, nuts, etc.) by exact prescribed tightening.



WARNING:

THIS SYMBOL IN A TRIANGLE SHAPE IS USED IN EVERY CASE WHERE YOUR SAFETY IS NECESSARY, AS WELL AS SAFETY OF OTHER PERSONS, AND IN ORDER FOR YOUR MOWER TO BE PROTECTED FROM RISK. REMEMBER TO READ WARNING WHEN YOU SEE THESE SIGNS.



AGGREGATING THE MOWER TO A TRACTOR

- Before each attachment and unloading of the mower from the tractor, block the hydraulic controls so as to prevent any inadvertent lift or lowering.
- When attached, pay attention to the category of tractor and the mowing levers of the mower, they have to adjust or match.
- There is a risk of injuries when connecting the connecting levers.
- When using external hydraulic controls, do not stand between tractor and mower.
- In the transport position, the mower always takes care of and blocks the lateral movement of the connecting levers.
- When driving on public roads with a mower in a transport position, the commands for hydraulics of the tractor are to be blocked against accidental descent.
- The mower is not used for working on uneven terrain or to work on ascent (slope) nor can you transport the mower using a tractor with narrow track markings.

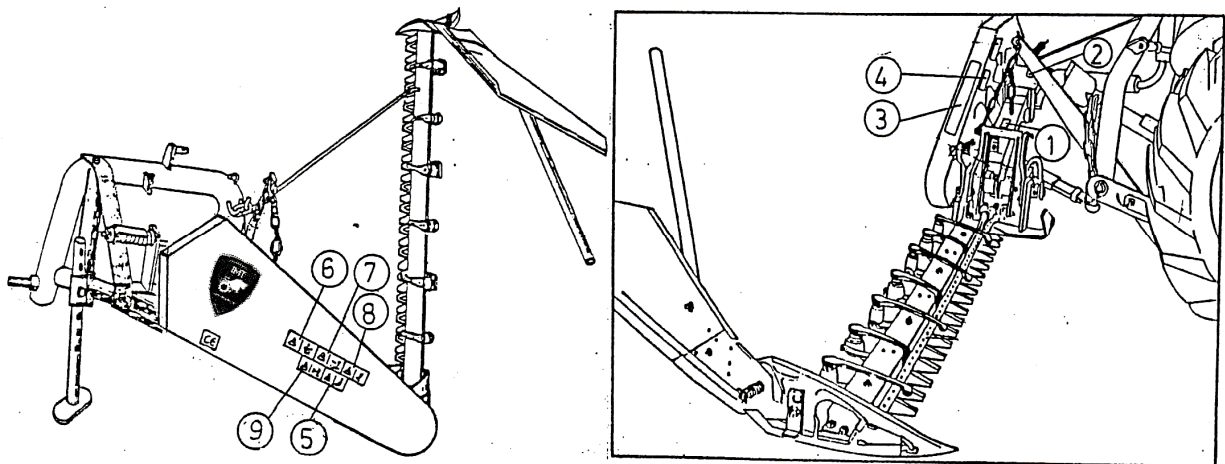


USING THE CARDAN SHAFT

- Only those cardanas that are delivered with a mower or prescribed by the mower manufacturers.
- Coatings of the cardan must be positioned and in proper condition.
- Pay attention to the prescribed overlapping of the pipes in the transport and working position.
- You can connect and remove the cardan only when the output shaft is off the tractor, the engine turned off, and the ignition keys removed.
- Always make sure to properly mount the cardan shaft.
- Insert the cardan sheath with anti-rotation chains.
- Before turning on the output shaft of the tractor, check that the speed and direction of rotation are adjusted to the permitted speed and direction of rotation in the mower.
- Before turning on the output shaft of the tractor, make sure that the persons or animals are not in the hazard zone of the mower.
- Do not switch on the output shaft until the tractor engine is switched off.
- If a cardan shaft is damaged, remove the defect immediately, before reusing it.

A. WARNING LABELS

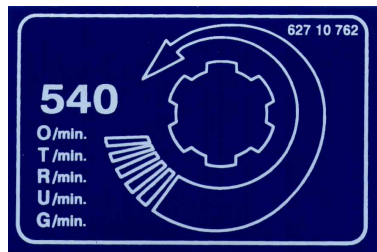
The following warning labels are placed on your mower for your safety, as well as the safety of people working with you. Holding this manual in your hand, go around the machine and check these warning labels and instructions from the manual. Labels must be legible if you do not replace them.



The identification of the tractor mower is done via the nameplate (nameplate 2). The plate contains the following information:

- In the field with the letter "Z" - the number of certificates of occupational safety is entered.
- In the "MASA / WEIGHT" field - the weight of the product is entered.
- In the "GODINA / YEAR" field - the year of production (last two digits).
- In the "SERIJA / TYPE" field - the series label and the commercial mark of the product.
- In the field "No." the number of tractor mowers composed of nine digits is entered and has the following meaning.
 - first digit - year of production
 - second and third digit - code of the manufacturer
 - the other six digits - serial number of the product from the start of production.

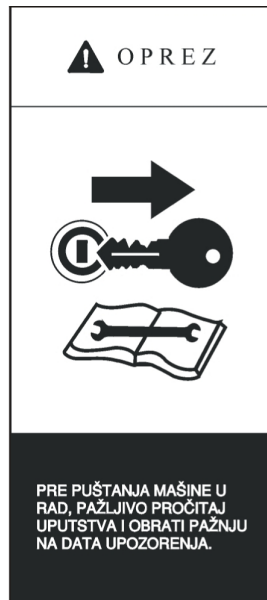
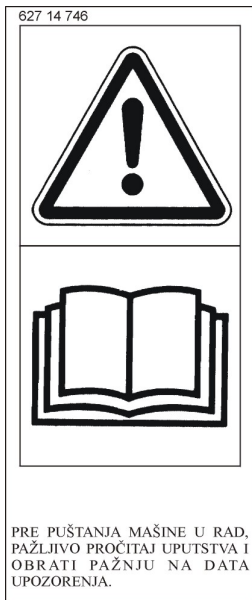
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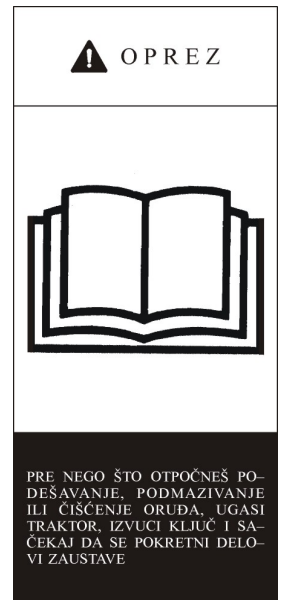
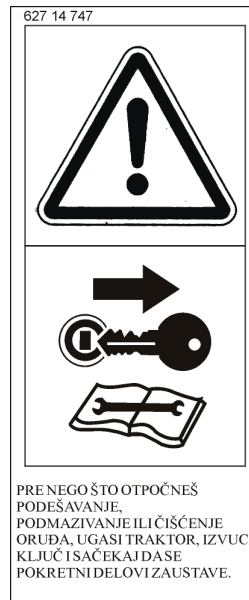
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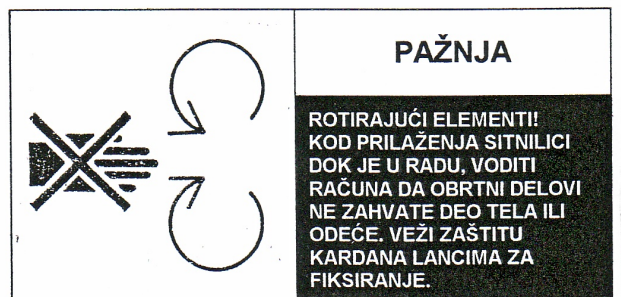
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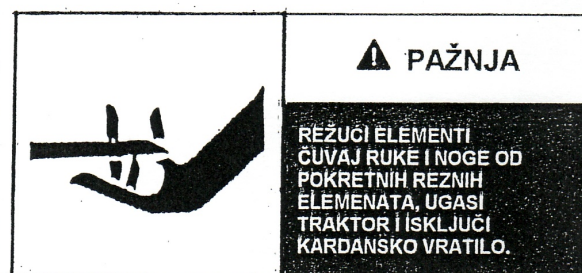
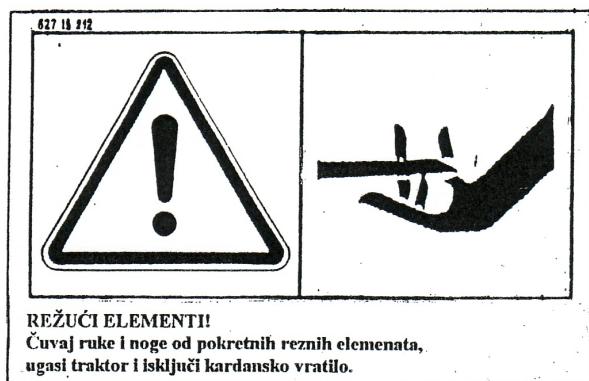
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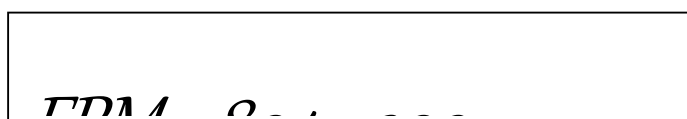
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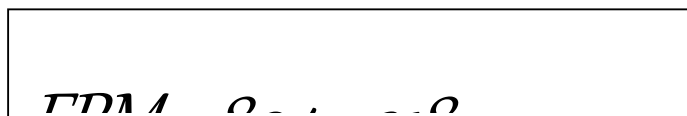
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3



3



6. Before releasing the machine to work, carefully read the instructions and pay attention to the warning.
Caution: Before releasing the machine to work, carefully read the instructions and pay attention to the warning.

7. Before you start the settings, lubrication or cleaning the tool, turn off the tractor, take out the key and wait for the moving parts to stop.
Caution: Before you start the settings, lubrication or cleaning the tool, turn off the tractor, take out the key and wait for the moving parts to stop.

4. Rotating elements: When approaching the scrubber while it works, make sure that parts of clothes or body are not caught in the rotating parts. Tie the cardan protection with fixing chains.

Caution: Rotating parts!

When approaching the scrubber while it works, make sure that parts of clothes or body are not caught in the rotating parts.

9. No one should ever be allowed to stand or walk under the cutting machine.

Caution: No one should ever be allowed to stand or walk under the cutting machine.

5. CUTTING ELEMENTS! Keep your arms and legs away from the moving cutting elements, turn off the tractor and cardan shaft.

Caution: CUTTING ELEMENTS! Keep your arms and legs away from the moving cutting elements, turn off the tractor and cardan shaft.



WARNING:

THIS SYMBOL IN A TRIANGLE SHAPE IS USED IN EVERY CASE WHERE YOUR SAFETY IS NECESSARY, AS WELL AS SAFETY OF OTHER PERSONS, AND IN ORDER FOR YOUR MOWER TO BE PROTECTED FROM RISK. REMEMBER TO READ WARNING WHEN YOU SEE THESE SIGNS.

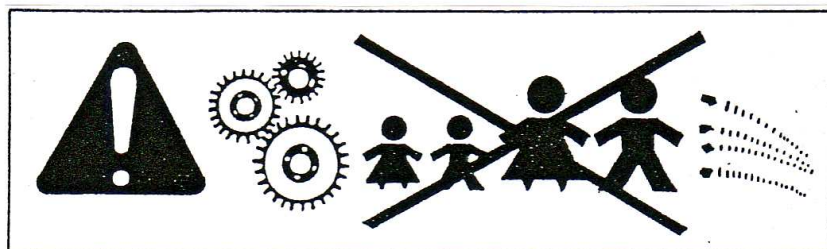
Information to read the instructions correctly

In this manual, the left and right are determined when viewed in the direction of travel.

The metric thread is used for mounting.
Tighten all screws when mounting.

Each image uses letters showing where to install.

Carefully read the text so that the mower is properly installed.



WARNING: THIS SYMBOL IS USED TO DRAW ATTENTION TO YOUR SAFETY. BE CAREFUL!

2. INTRODUCTION

The rear tractor mower with two movable cutting bars belongs to the group of modern tools from our mower production program. It is connected to small tractors which have a three-point attachment and an outlet shaft with a 540 rpm speed.

It is intended for cutting fodder plants, medicinal herbs, cereals and mowing in communal activities.

The constructive solution of the cutting machine allows for mowing even under the toughest conditions (shedding grass, wet terrain, first mowing of artificial meadows, etc.).

The special features of this mower are: simple construction, high performance, simple and quick aggregation, quick switch from the transport to the working position, safety system for unloading at a hike on a hidden obstacle, minimal maintenance, etc.

3. DESCRIPTION OF THE MOWER

Tractor mower with two movable cutting bars (Figure 1) consists of:

1. Loadable structures with transmission and
2. Cutting machine

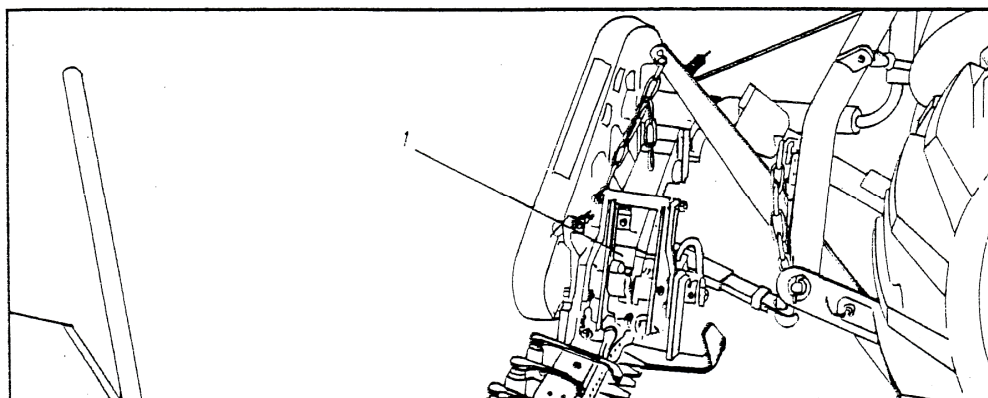


Figure 1

The supporting structure consists of a connecting shaft and a carrier of the cutting machine.

The task of the attachment part of the supporting structure is to enable connection with the tractor and carrying the carrier of the cutting machine with the cutting machine.

The system for transferring movement from the output shaft of the tractor to the moving bars consists of: a cardan shaft, a gearbox with wedge belts, a shaft with an eccentric plate and a lever system.

The cardan shaft is connected at one end with the drive shaft of the belt drive and the other is connected to the output shaft of the tractor.

The belt drive is made from a drive and driven pulley interconnected by two wedge belts.

The shaft with eccentric plates is partly connected to the driven belt, and the other part through the system lever with movable cutting bars.

4. AGGREGATING THE MOWER TO A TRACTOR

After assembly is carried out in the service workshop of certain sub-assemblies, the two-piece cutting-edge bars are delivered to the transport position as shown in Figure 2.

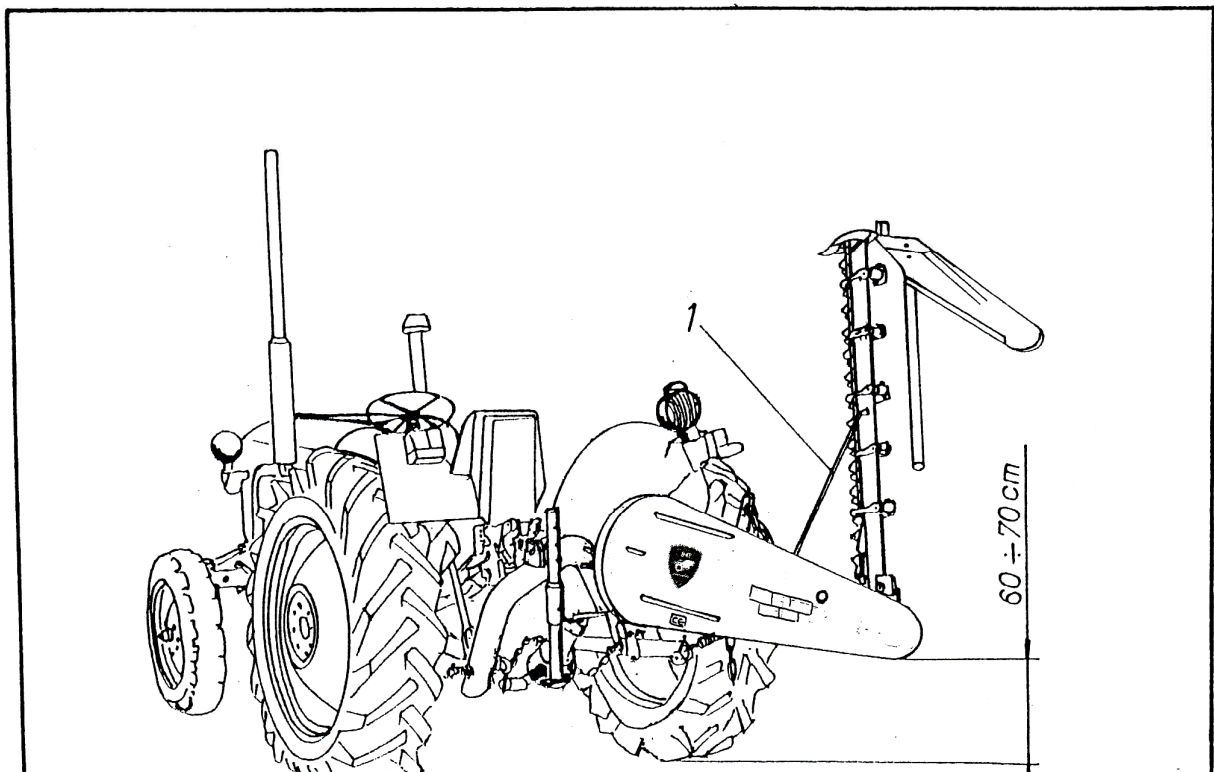


Figure 2

Aggregating the mower to a tractor is done in the following manner:

Move the tractor backwards, lower the lower tractor levers (figure 3, item 1) using the hydraulics at the height of the axis of the attachment shafts of the supporting frame and make the connection.

Secure the connection with the fuses (item 2) with the shaft (item 4) to connect the upper tractor lever (item 3) with the bearing frame and secure with the existing fuse.

Upon completion of the previous operations, hydraulics raise the mower from the ground so that the height from the ground to the protective sheet of the pulley is 60 - 70 cm and approaching the connection of the chain (item 5).

Secure the chainholder (figure 3, item 6) with a pin that binds the upper tractor lever with the eyelet on the tractor.

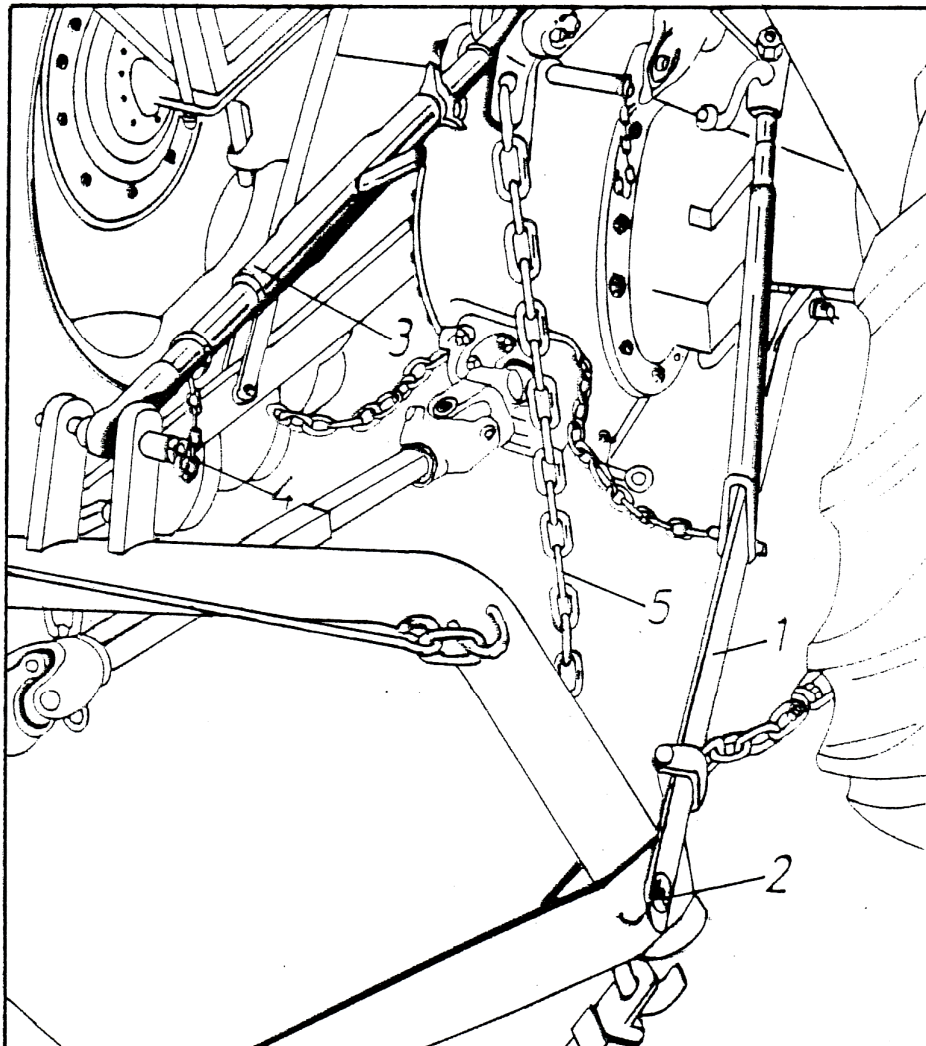


Figure 3

The chainholder with the chain (item 5) should be placed on the shaft (item 7) located on the frame and secured with a fuse (item 2). Attach the chain to the chain holder and determine the length of the chain so that after releasing the hydraulics the mower takes the appropriate position.

5. ADJUSTING THE MOWER FOR WORK

In order to ensure the correct operation of the mower, it is necessary to make the necessary adjustments before starting work. A flat surface should be selected for adjustment.

- Release the mower for the transport position (Fig. 2, Item 1) and attach it to the eyelet located on the mower's frame (figure 4, item 1).
- Using hydraulics, slightly raise the mower, when hydraulics chain loosens unfasten it (figure 3, item 5).
- The whole mower is lowered by hydraulics by the time the stub firmly rests on the ground, and then the hydraulic chain is attached (figure 3, item 5). Set the chain length so that it is tight.
- Use hydraulics to lift the mower so that the canopy is located 8 to 10 cm from the ground. Below the stand in this position, place a flat object of approximate height of 10 cm. Use the hydraulics to lower the mower to lean the stand on the padded object.

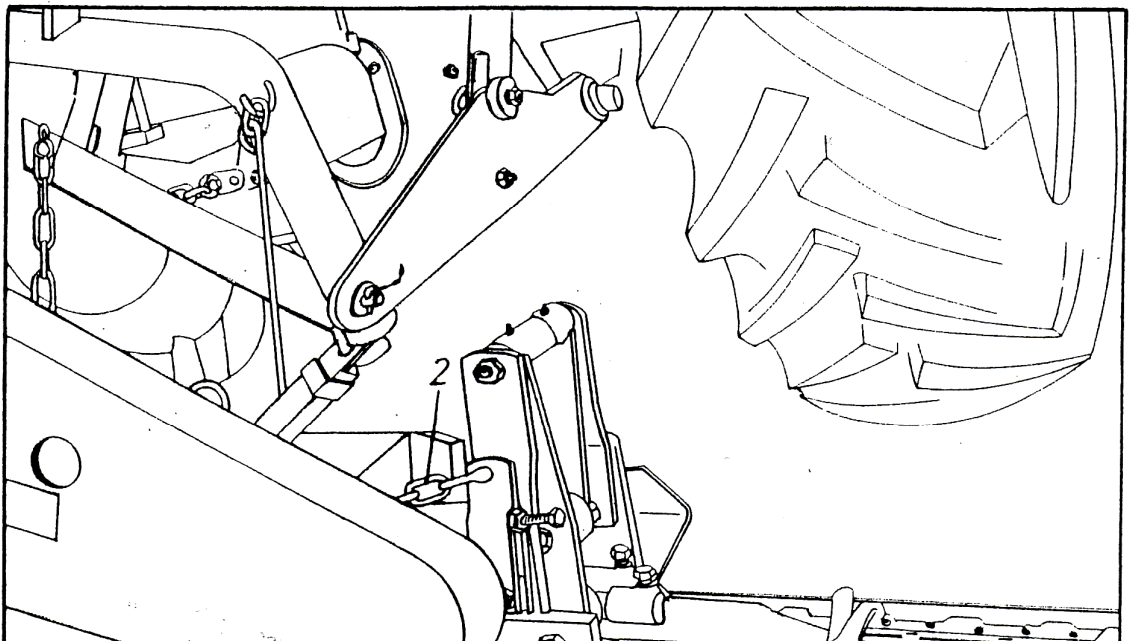


Figure 4

- Using a chain (figure 4, item 3) and tightening (fig. 4, item 2), adjust the hair so that the beak hair (Figure 5, item 5) touches the ground.

We check the setting of the mower in such a way that, using hydraulics, we raise the mower in the upper position and remove the object that we placed under the canopy, then lower the mower into the bottom lower position by hydraulics. If the correct adjustment of the mower is done, the whole length should lie on the ground, and the hydraulic chain should be tightened.

- The cut off angle is selected depending on the state of the grass to mow.
- A cut on the fodder of fodder plants should be as normal as possible to the tree. The adjustment of the angle of cutting of the stalk is done by changing the length of the upper tractor lever.

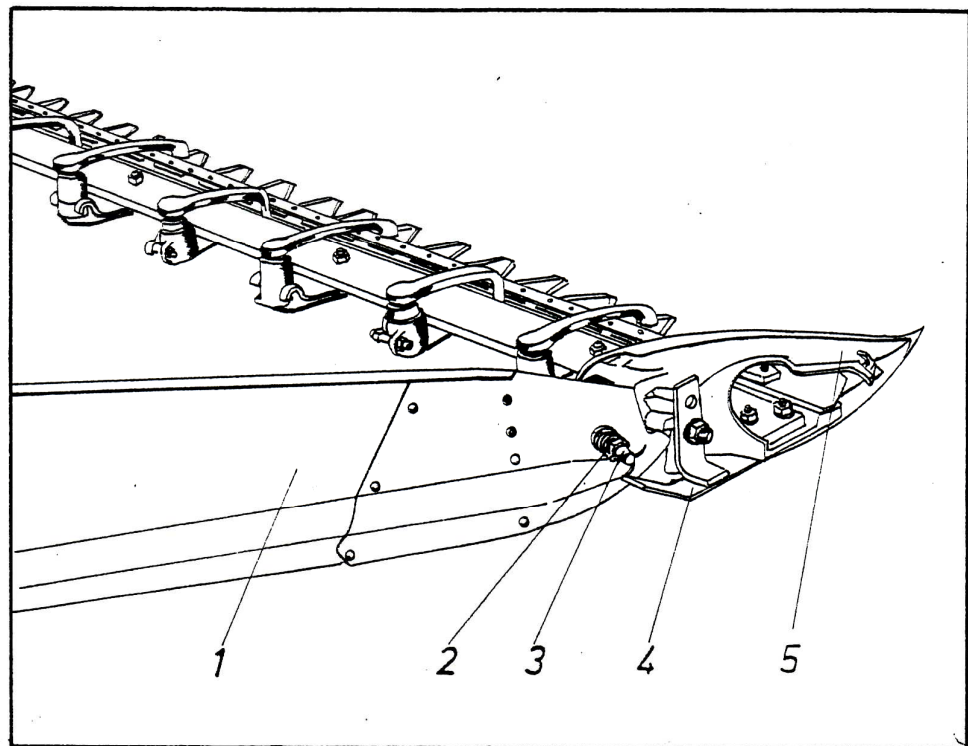


Figure 5

- Adjustment of the cut height is done with slides under the canopy and under the beak (Figure 5, item 4), it should move in the range of 3 - 9 cm (recommended height 6 cm).

- Connect the shaft (item 1) using the screw (item 2) and the nut (item 3) with the beak on the cutting machine.
- Place the wooden lawnmower on the shovel to the position that suits most
- Installing a safety system for unscrewing the cutting machine in the event of an obstacle encounter, is done by tightening or unscrewing the nut on the screw that carries it on the balance bar.
- Check the belt tension through the slot located on the protective sheet and add subsequent tension if required (the permissible belt tension is 10 mm).

BEFORE YOU START WORK, YOU NEED TO:

- Remove the protector on the cutting machine,
- Check the tightness of all bolts. The exception is the nuts on the hair carrier (Fig. 6, item.10) which can not be tightened, as this would disrupt the pressure of the upper handles for guiding the blades.
- Lubricate all oilers. Lubrication is carried out with multi-purpose lubricant.

6. WORKING WITH THE MOWER

Before starting mowing, it is necessary to examine the parcel, and if there are some obstacles to remove them.

The speed of mowing moves in the range of 4 - 8 km / h, depending on the terrain and condition of the mow.

According to the state of the cultivated mowing, as well as the condition of the soil, the cutting height is adjusted.

During mowing, the conditions under which the mower will mow should be considered. If you notice the obstacles they should be removed and continue to mow. The mowing should be carried out with full working of the mower, in order for it to be fully economically justified.

If during operation, the cutting machine hits a hidden obstacle, the safety device will cut off the mower, and in order to continue mowing it is necessary to stop the tractor and turn off the output shaft, and then return the tractor slightly backwards and lift the mower hydraulically. By lifting the cutting machine, the safety system is returned to the working position.

If during normal operation, the system is unlocked, it is necessary to tighten the spring.

If the slipping wedge is stuck, the tractor should be stopped, then the mower must be switched off, the tractor moved backward, and then the rear caught on the rear will determine the cause of the jam. Check the tension of the straps before starting work again.

When finished, prepare the mower for transport.

- Through the double fingers on the cutting machine, set the protector,
- Place the cutting machine in a vertical position and secure it with the holder and the handle that has a nut on it.

7. MAINTENANCE OF THE MOWER

- The mower should be neatly lubricated and properly adjusted. Lubrication of the mower should be a constant practice, as this will prolong its lifetime.
- Before starting the work, it is necessary to lubricate all lubrication points with lubricants, as well as other sliding joints.

A. REPLACEMENT OF THE MOWER'S BLADES (cutting rods)

- Release the screws that connect the cutting rods to the drive mechanism of the mower (fig. 7, item 5).
- Turn the upper guiding levers (fig. 6, item 4) as shown in the picture. If the upper handles are difficult to turn off, partially fasten the positions 10, which will make the turning of the upper guide levers easier.

- Move the upper cutting rod into the field until the heads of the blade (outer lever) are free. Then remove the cutting rod.
- Raise the lower cutter rod until the glove comes out of the lower guide blades (item 2, fig. 6). Then move the cutting rod into the field until the head of the blade (inner lever) is free, then remove the cutting rod.
- Setting up new rods is done in reverse order in relation to disassembly. When installing new cutting rods, fill the holes on the leading handles of the blades, top and bottom, with lubricant. Re-tighten and re-position the nuts in position 10.

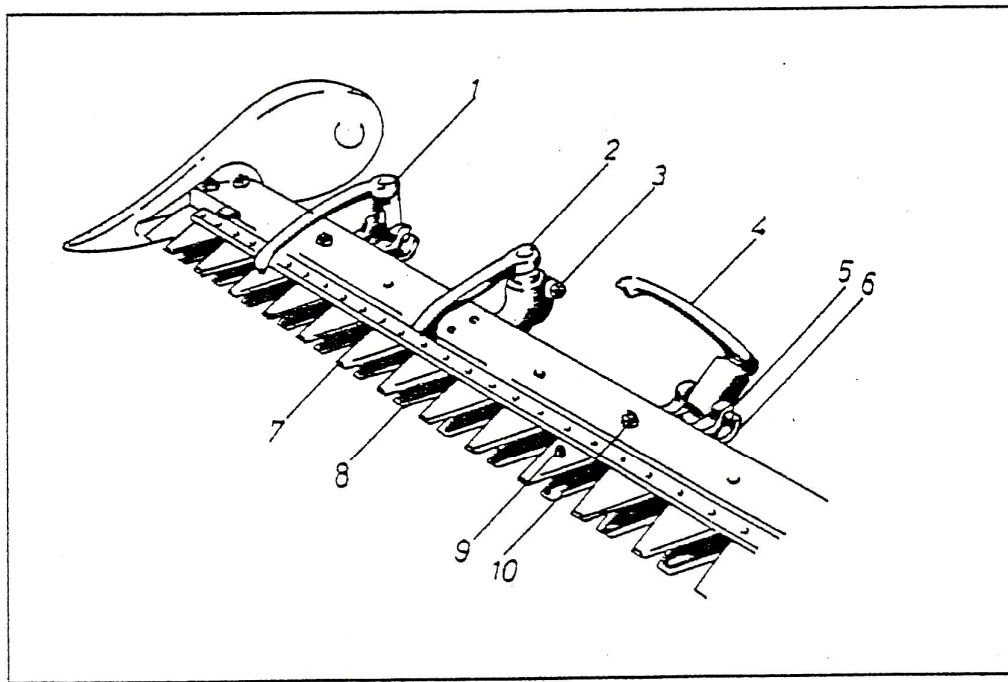


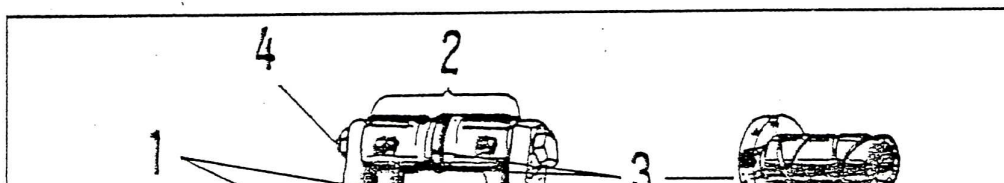
Figure 6

B. DRIVE MECHANISM

The drive mechanism transmits movement through the shaft, the eccentric plate and the lever system to the cutting rods and achieves up to 1600 oscillations / min.

Lubrication is carried out with high-quality lubricant depending on the duration of operation and temperature, but at least every 4 to 6 hours of operation.

The two-lever levers (Figure 7, Item 1) oscillate in the upper bearing (Fig. 7, Item 2) in which the bronze shells are embossed, and these around the eccentric beads (item 3) which serve to determine the gap of the cuttings working position.



Cutting blades on the workpiece must not collide with each other.

The required clearance is achieved in the following way:

- The cutting blades will be brought to the middle position of Figure 8, so that the upper guide bar occupies a 90° angle to the upper edge of the bar.
- Unscrew the crown nut (item 4) on the top pin until the camshaft can be started manually or with the help of tools.
- Excentric sleeve, carrying the upper cutting rod above the two-spoke arm, is rotated to be in the upper position.
- An eccentric sleeve carrying the lower cutting rod through the two-spoke lever, is rotated until a clearance of 0.2 - 0.4 mm is achieved between the cutting blades (easily touching the blades should be such that no noise is heard during operation and pounding).
- After completing the clearance, the crown nut (item 4) is firmly tightened and secured by a gap from self-locking.

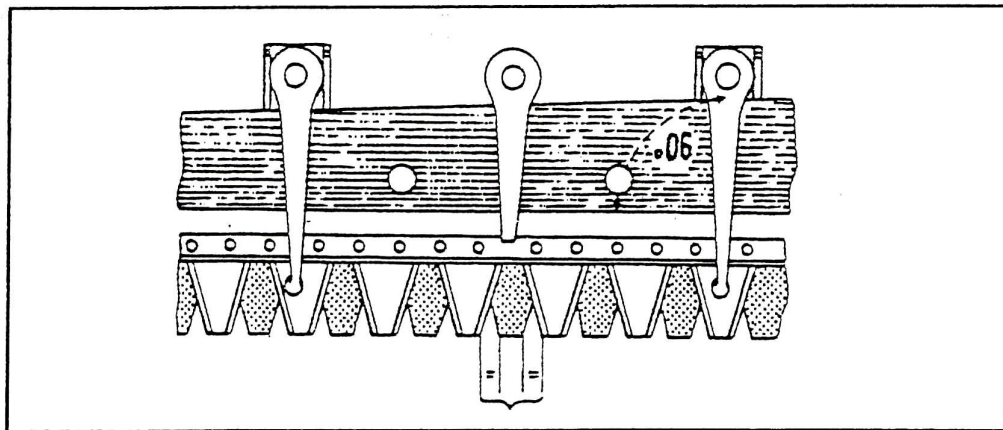


Figure 8

C. LEAD BLADE HANDLES - UPPER

The upper handles are mounted in springs (Fig. 9, Item 2) and are fitted with a screw and self-locking nuts attached to the base lath.

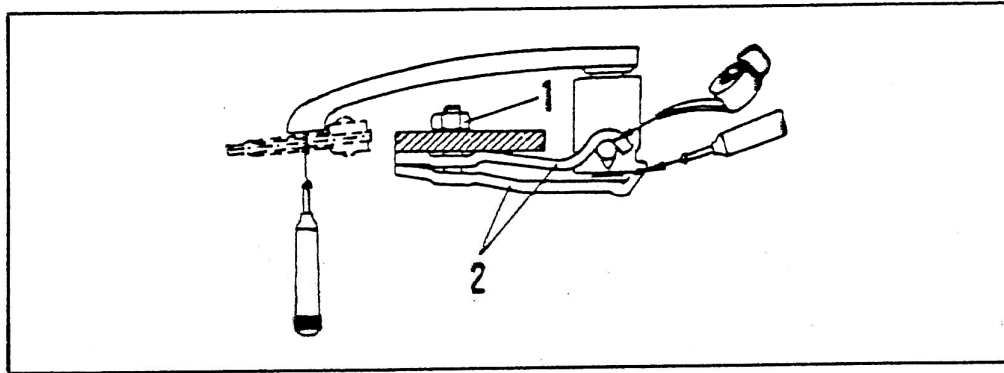


Figure 9

The pressure of the lead handles on the upper pair of blades is about 12 - 14 daN per handle, which is achieved by tightening or unscrewing the nut (item 1, figure 9). The space between the springs needs to be cleaned more frequently and all the friction points are regularly lubricated and soaked.

CAUTION: Turning the nut (item 1) for half a circle corresponds to a pressure force of about 4 daN.

D. LEAD BLADE HANDLES - LOWER

The lower handles (figure 10, item 2) are mounted on the brackets in which they can be adjusted in terms of height (Figure 11).

All the handles should be set at the same height as the base lath, and each of them transfers the pressure forces of the pair of pins and holds them at the same height.

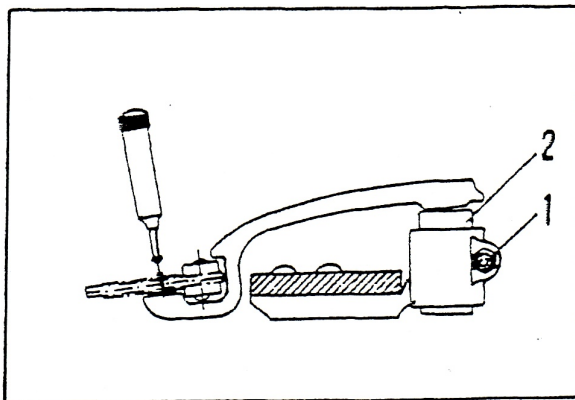


Figure 10

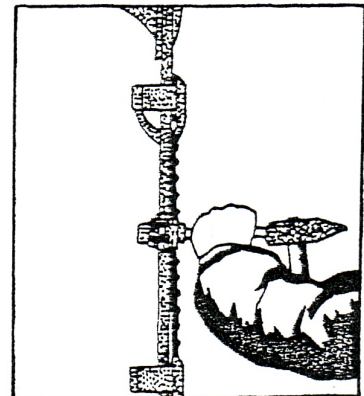


Figure 11

The space between the guides of the blades and the lower levers should be occasionally lubricated.

The upper and lower leading handles of the blades (Figure 9, and Figure 10) must not touch the back surface of the cutting rod blades.

After lengthy work, the upper guides can be rectified.

When necessary, finishing and re-assembling are done in the original shape, see Figure 12, Figure 13 and Figure 14.

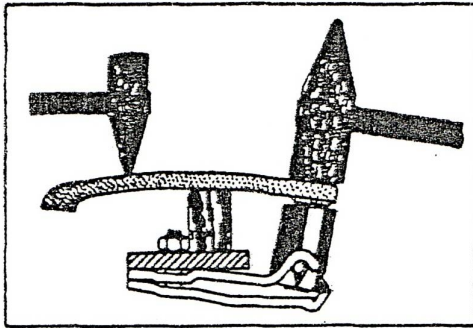


Figure 12

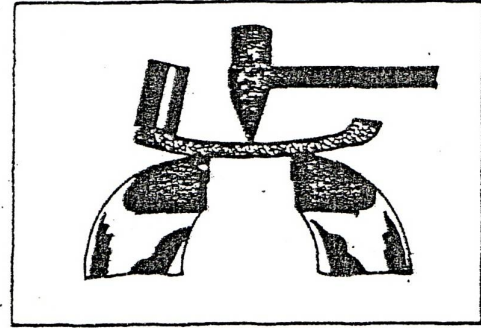


Figure 13

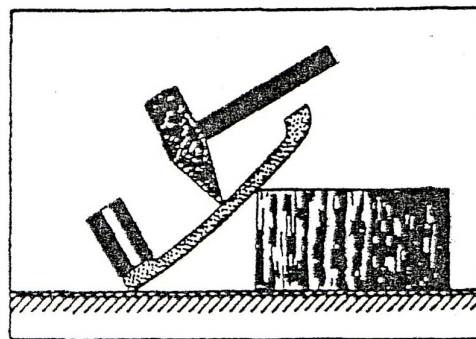


Figure 14.

E. CUTTING BLADE

The cutting blade is made of high quality steel and thermally processed.

After a certain period of time, the cutting edges of the blade become clogged. The twisted edges of the blade can be sharpened by grinding. Grinding the blades is of great importance for clean and unhindered mowing.

It is possible to use only adjustable machines with suitable grinding tools (KOMAG or MERC - Figure 15 and Figure 16).

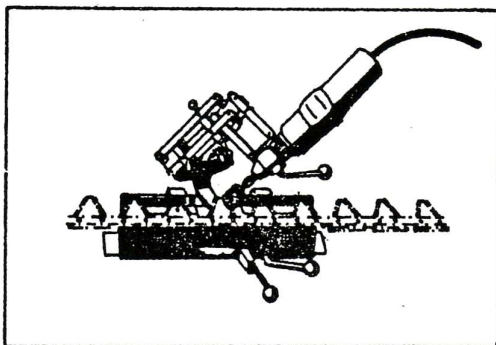


Figure 15

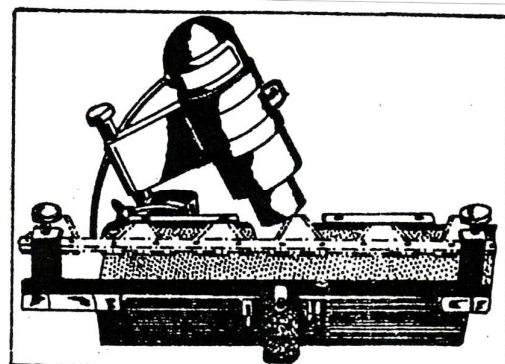


Figure 16

If we do not have one of these sharpening machines, sharpening can be done with the help of a manual grinder as in Figure 17.

- When grinding, the blades must not be burned, as they are unusable as such.
- Do not obstruct the cutting edge of the blade blade (figure 18, item 1).
- Do not grind the cutting edge of the cutter blade firmly (fig. 18, item 2).
- The profile of the cutting edge of the blade must be symmetrically ground (figure 18, item 3).

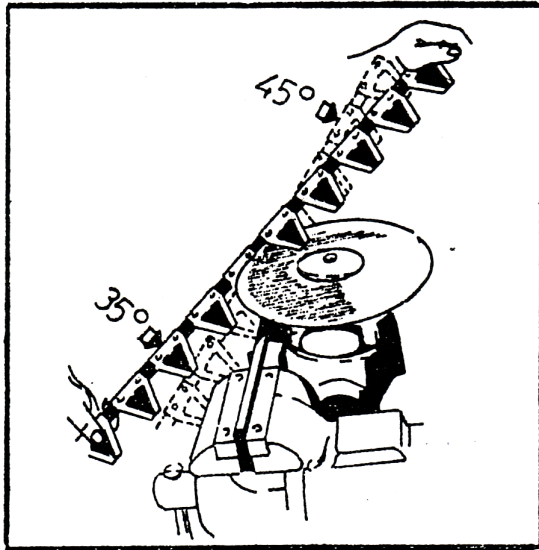


Figure 17

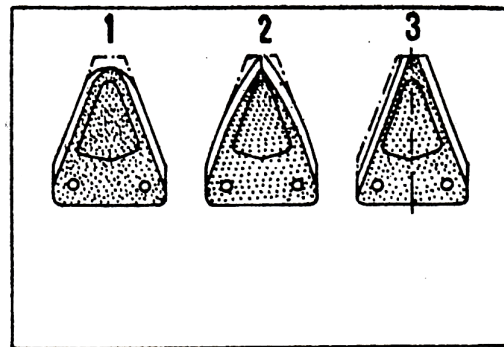


Figure 18

- Well and properly ground blades, see Figure 19.
- Upper cutting blades should match the lower cutting blades. If these stand two millimeters across the lower blades (Figure 20), the upper handles must be transposed as given in paragraph D.

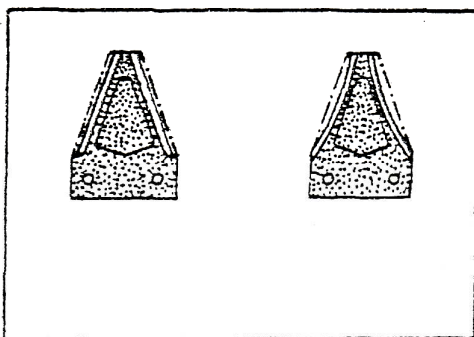


Figure 19

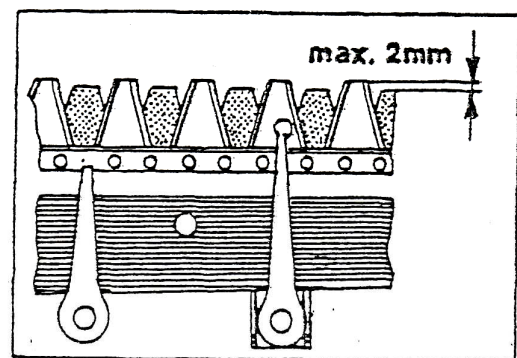


Figure 20

F. GUIDE

The guide has the task of preventing the bouncing of the upper cutting rod when it hits an obstacle (stone or other).

The front of the guide must not touch the back surface of the mower. Also, the back surface of the guide must not touch the surfaces of the cutting pieces of the mower.

The slots on the guides allow for its adjusting (Figure 21).

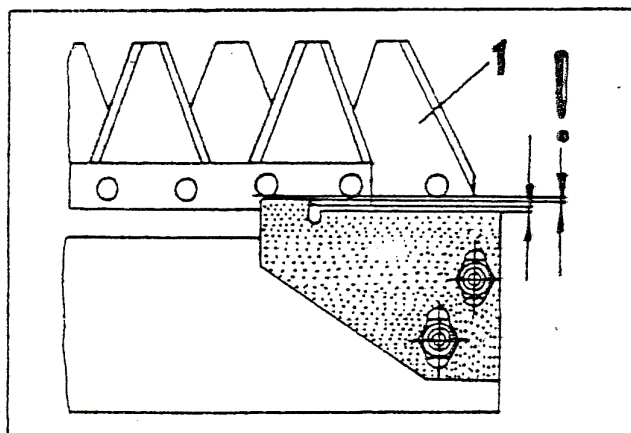


Figure 21

If you have carefully examined the attached manual and if you follow the given operating instructions, your mower will have:

- Convenient and continuous work.
- Clean mowing.
- Fuel and time savings.

BASIC RULE:

- Normal pressure of the leading blades of the upper blades and sharp blades = clean mowing.
- High pressure and blunt blades = bad mowing, heavy load on the drive parts, possibly breaking the blades.

8. TECHNICAL CHARACTERISTICS OF THE TRACTOR MOWER WITH TWO MOVABLE CUTTING BARS

	FPM 804 209	FPM 804 218
Type and label	rear	rear
Working grasp	1.25 m	1.60 m
Mowing speed	4 - 12 km/h	2 - 12 km/h
The required number of turns of the output shaft	540 min⁻¹	540 min⁻¹
Required tractor power	4,2 kw and more	4,2 kw and more
Transport speed	Up to 20 km/h	Up to 20 km/h
Mass	152 kg	166 kg

LIST OF SPARE PARTS

- Instructions for ordering spare parts -

- For ordering spare parts or components contact the sales department - spare parts.
- Optional equipment or accessories, whose identification number starts with 1, as well as instructions for installation and use, must be ordered from the department of machine sales.

Existing images in the following sheets show machine parts that are numbered.

The text next to the picture is given: the serial number of the machine part, its identification number, the quantity within the mower and, if necessary, the dimensions, the standard or the required tightening moment.

Pay attention to additional tags on the sheets.

In order to avoid misunderstandings and wrong delivery when ordering spare parts, be sure to indicate:

- mark and number of the mower (series, №)
- number and name of spare part (to be found in this list)
- quantity of required spare parts
- the desired delivery method (mail, express, etc.)
- full address of the contracting authority (with postal code)






On your mower on the tile shown in the picture, the series and the factory number are printed. Guarantees and other issues can not be solved without the serial and factory numbers.

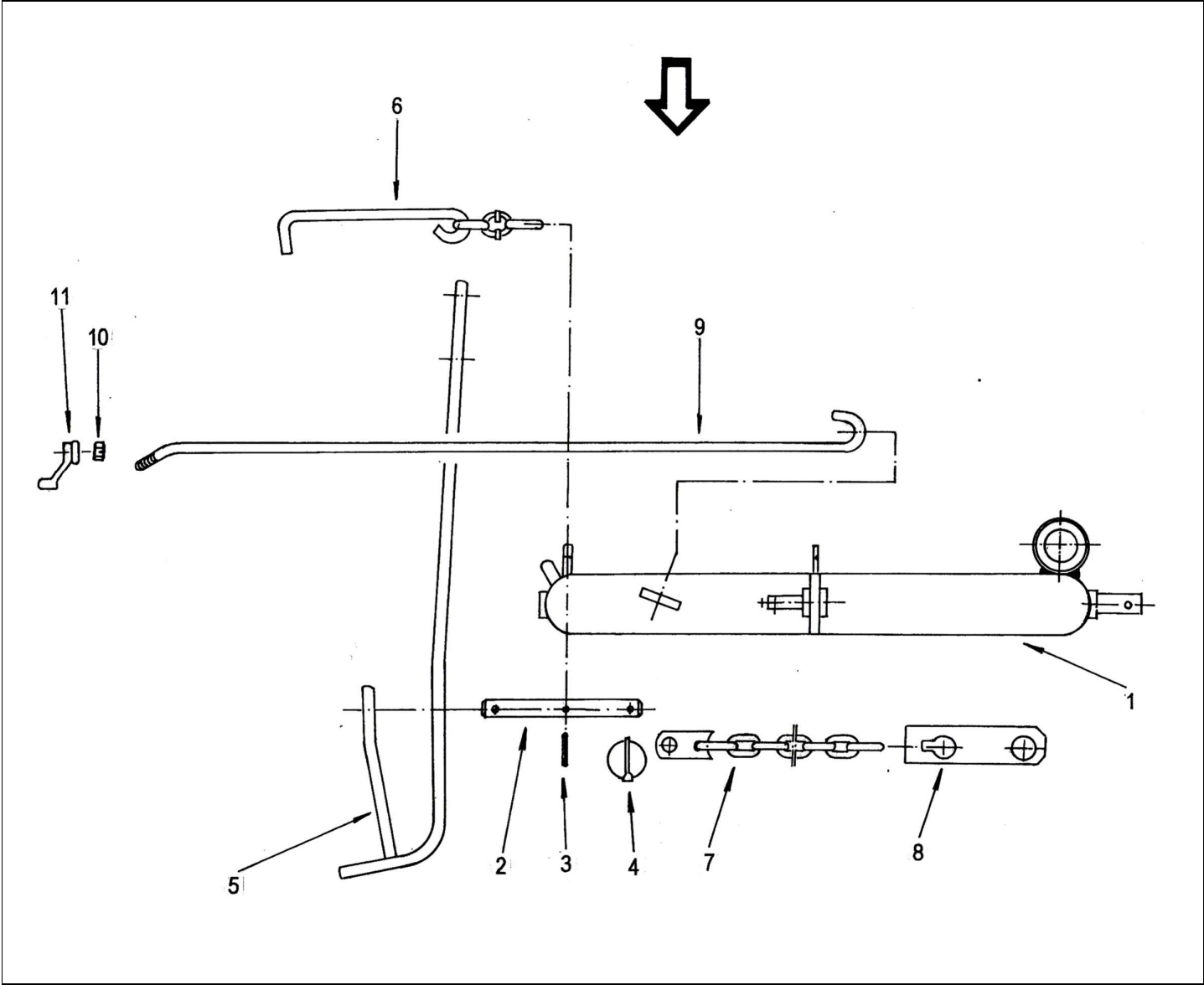
Please provide these numbers immediately after the delivery of the machine here in the original.

APPROVED SYMBOLS FOR ABBREVIATED MARKING

DNO	Additional optional equipment
:	for
< >	except
>	from to ...
Zam	replaces
Ø	diameter
> <	Strength (thickness)
T1N	For vineyard tractors
T1	For tractors cat. 1
T2	For tractors cat. 2
T3	For tractors cat. 3
<—>	Length

Q	A. Number of pieces (quantity) needed
*	See the note
	Movement direction
	Turning direction
	Package of parts & components
ZA	Replaced by one or multiple parts
Z	Number of teeth
D.P	Pad thickness
DPS	Pad thickness to reduce gap

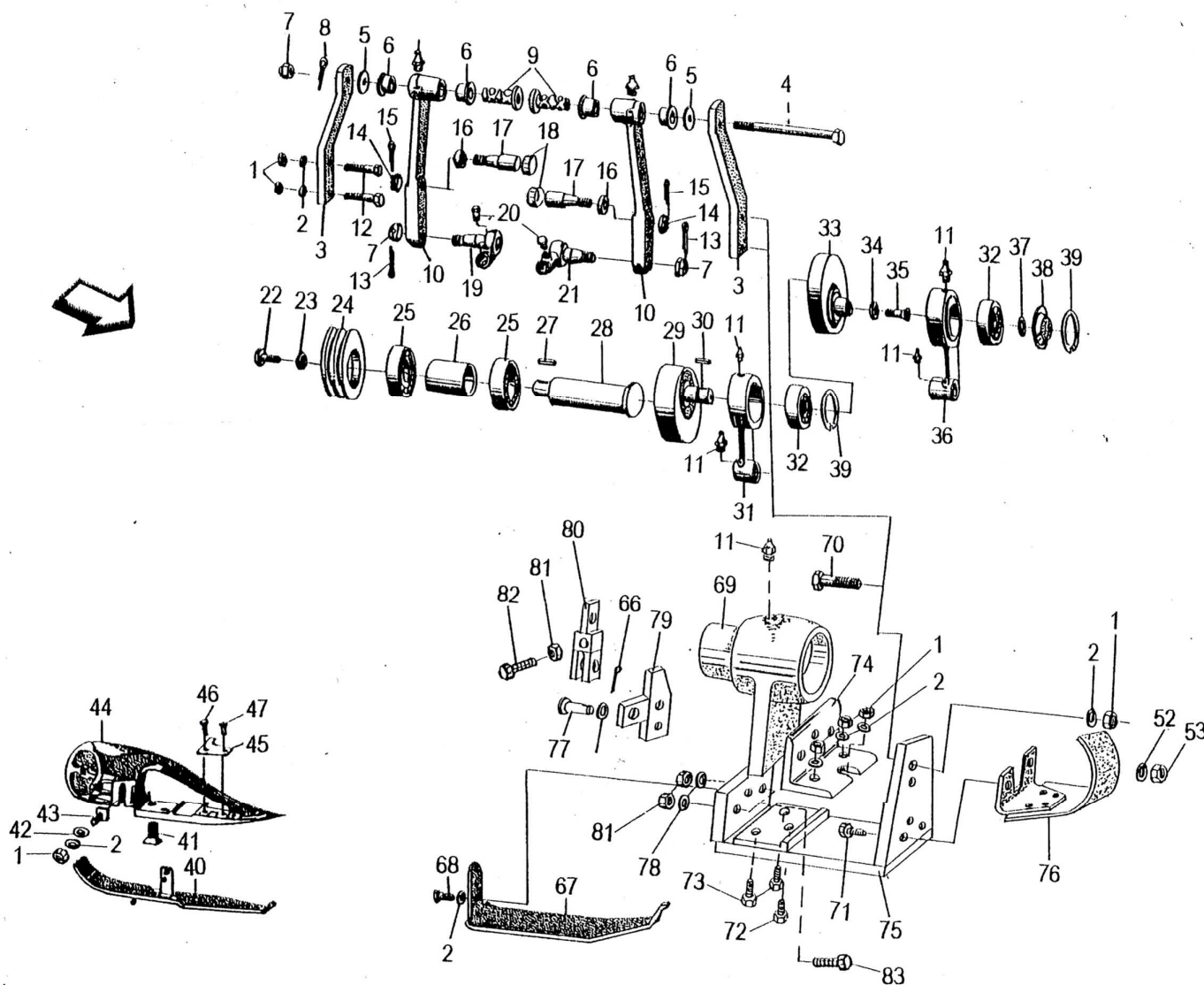
BEARING FRAME



IDENTIFICATION NUMBER
FOR ORDERING

1	804 91 740	1	Ø 6x40
2	804 91 467	1	
3	000 05 464	1	
4	611 20 010	1	
5	804 91 440	1	M14
6	627 13 050	1	
7	804 91 598	1	
8	627 12 838	1	
9	627 13 075	1	
10	000 05 340	1	
11	627 13 258	1	

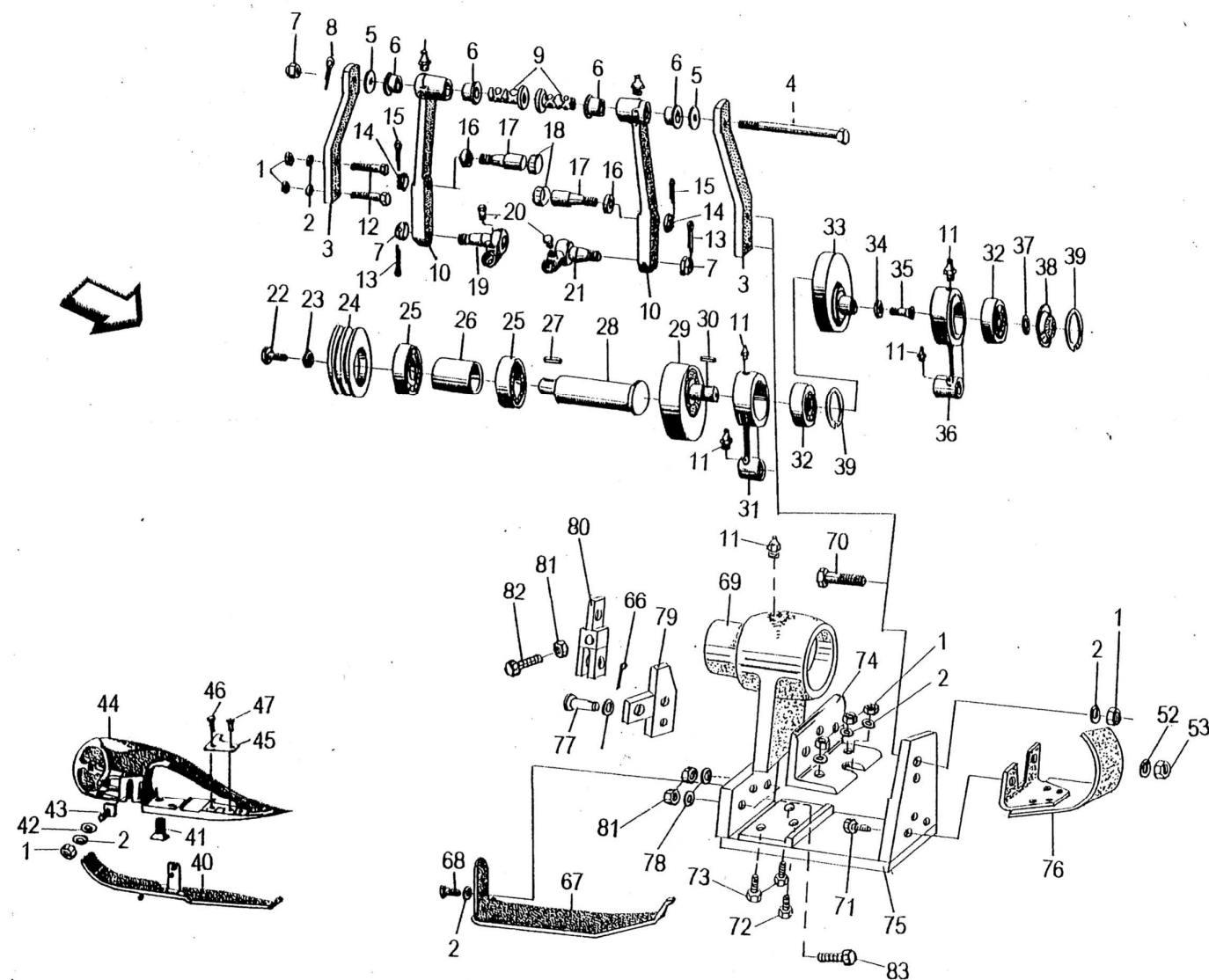
POWER MECHANISM



IDENTIFICATION NUMBER FOR ORDERING

1	000 00 062	9	M12
2	000 00 072	9	12
3	627 10 781	2	
4	627 12 389	1	
5	627 12 390	2	
6	627 12 382	4	
7	000 05 496	3	M14x1,5
8	000 02 556	1	3,2x30
9	627 12 392	2	
10	627 13 518	2	
11	000 02 392	7	AM6
12	000 05 497	2	M12x55
13	000 05 495	2	3,2x25
14	000 05 622	2	M18x1,5
15	000 00 073	2	4x30
16	627 12 377	2	
17	627 13 517	2	
18	627 12 386	2	
19	627 13 520	1	
20	000 05 507	2	M12x30
21	627 13 468	1	
22	000 12 881	1	M10x35
23	627 13 519	1	
24	627 13 515	1	
25	000 05 370	2	6207RS
26	627 10 863	1	
27	000 00 077	1	A10x8x40
28	627 13 516	1	
29	627 12 368	1	
30	627 12 387	1	
31	627 12 378	1	
32	000 05 588	2	6306
33	627 12 369	1	
34	627 12 384	1	
35	000 05 576	1	M10x50
36	627 12 379	1	

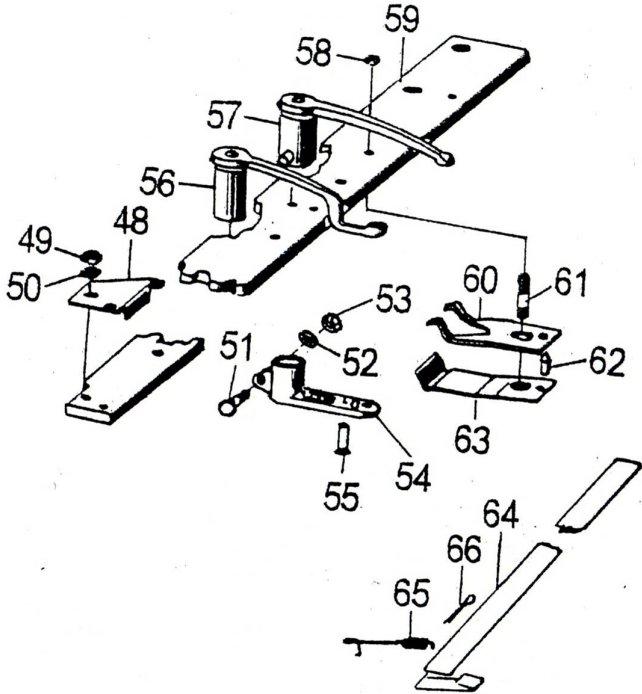
POWER MECHANISM



IDENTIFICATION NUMBER FOR ORDERING

37	000 05 578	1	30
38	627 12 385	1	
39	000 04 233	2	72
40	627 13 808	1	
41	000 05 493	2	M10x38
42	000 00 066	2	12
43	000 00 056	1	M12x35
44	627 13 506	1	
45	804 90 743	1	
46	000 04 802	1	5x22
47	000 04 765	1	5x25
48	627 12 085	1	
49	000 00 061	2	M10
66	000 04 030	2	4x20
67	627 12 872	1	
68	000 04 570	1	M12x30
69	627 12 724	1	
70	627 13 838	1	
71	000 05 708	3	M8x35
72	000 08 119	1	M12x40
73	000 05 517	2	M12X50
74	627 10 841	1	
75	627 12 864	1	
76	627 12 870	1	
77	627 10 968	1	
78	000 02 420	1	16
79	627 13 073	1	
80	627 10 967	1	
81	000 00 063	1	M16
82	000 05 512	1	M16x65
83	000 00 053	2	m16x60

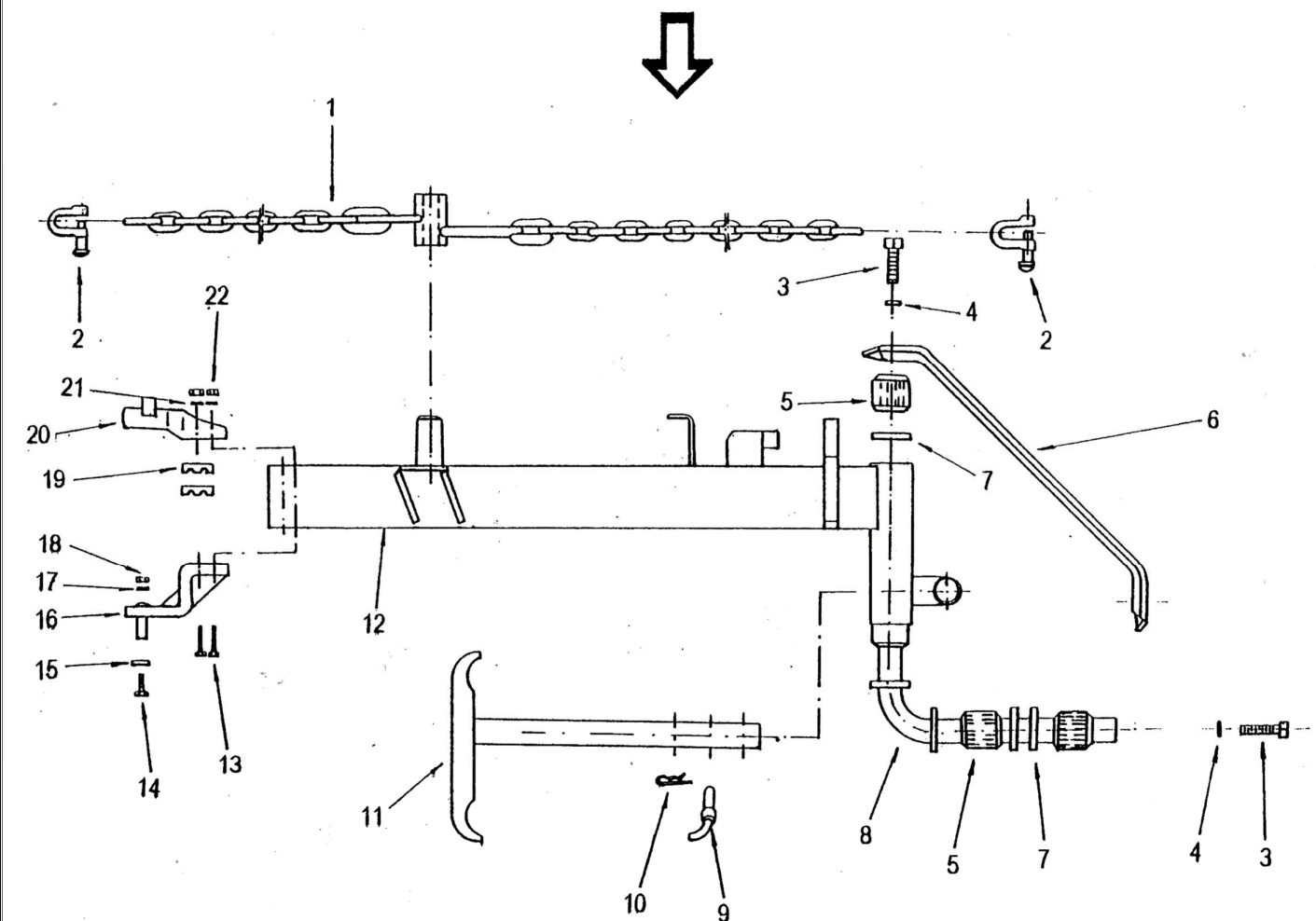
POWER MECHANISM



IDENTIFICATION NUMBER
FOR ORDERING

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51	000 02 495	3	M8x45
52	000 00 070	3	8
53	000 00 060	3	M8
54	627 10 789	3	
55	000 05 705	6	9x32
56	627 10 818	3	
57	627 10 827	4	
58	000 02 208	4	M10
59	627 10 842	1	
60	627 12 069	4	
61	000 24 715	4	M10x35
62	627 10 852	4	
63	627 12 068	4	
64	850 62 201	1	
65	850 12 032	2	
66	000 04 030	2	4x20

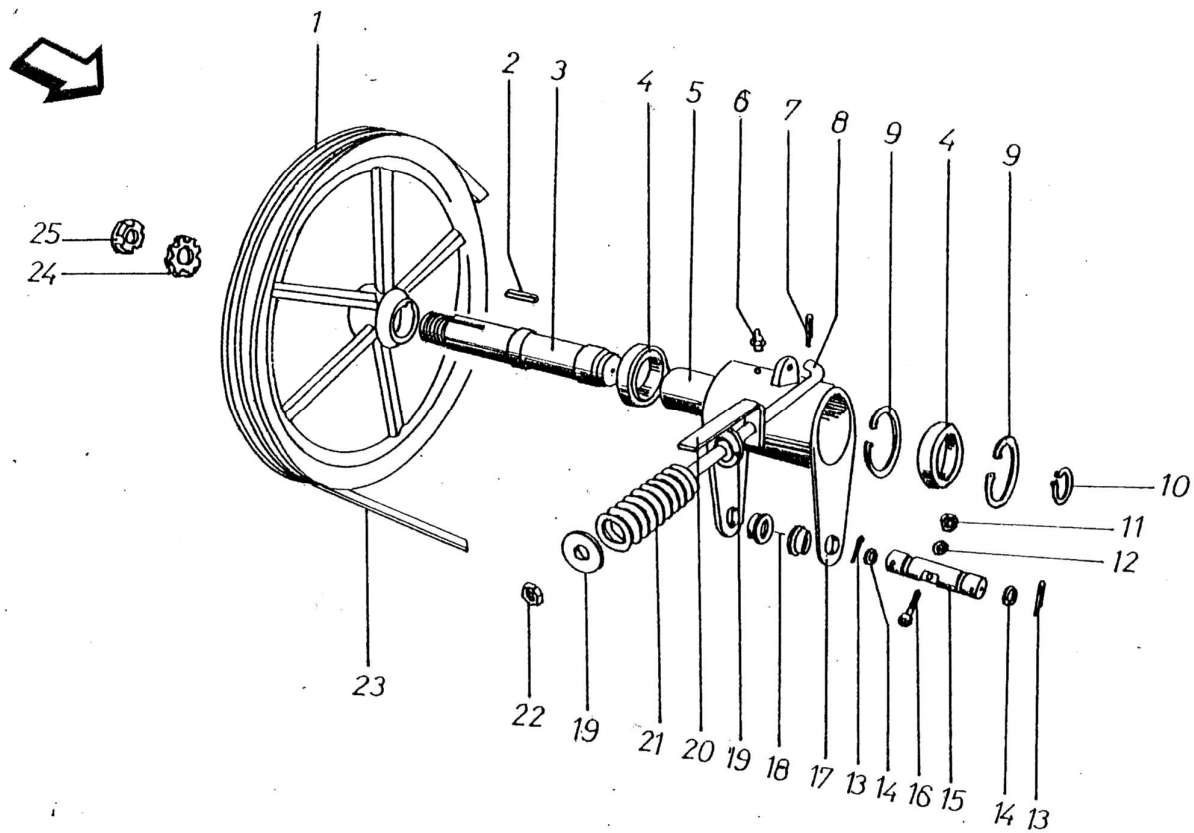
PRESSURE HOLDER



IDENTIFICATION NUMBER FOR ORDERING

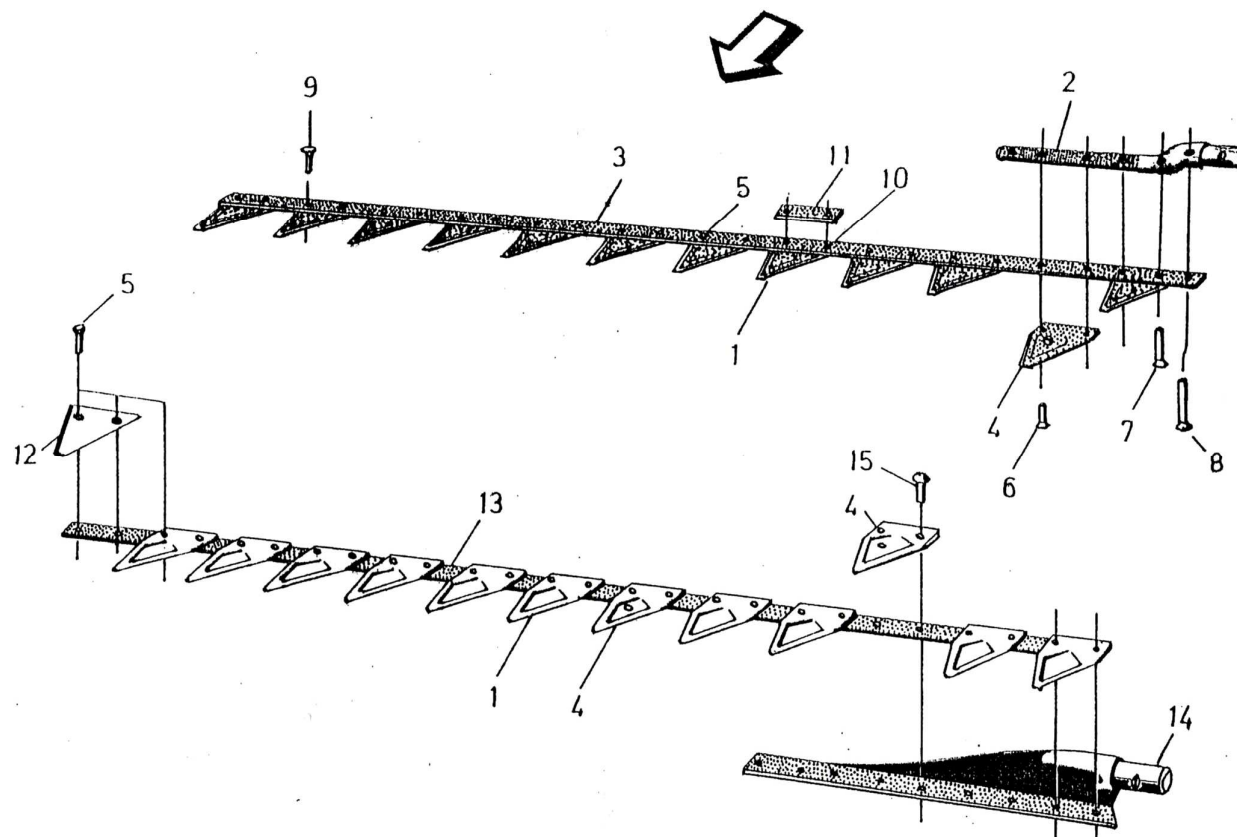
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4	000 11 223	2	12
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6	804 91 471	1	
7	627 13 033	6	
8	804 91 475	1	
9	627 12 682	1	
10	805 40 784	1	
11	804 91 545	1	
12	804 91 735	1	
13	000 11 307	2	M16x130
14	000 05 416	1	M10x80
15	627 13 074	1	
16	804 91 725	1	
17	000 00 071	1	10
18	000 00 061	1	M10
19	804 91 562	pp	(2)
20	804 91 745	1	
21	000 02 420	2	16
22	000 00 063	2	M16

POWER PLUG



IDENTIFICATION NUMBER FOR ORDERING			
1	627 12 008	1	
2	000 05 335	1	12x8x56
3	627 10 576	1	
4	000 07 964	2	6207Z
5	627 10 536	1	
6	000 02 392	1	AM6
7	000 00 073	1	4x30
8	627 10 615	1	
9	000 04 233	2	72
10	000 00 088	1	35
11	000 00 060	1	M8
12	000 11 224	1	8
13	000 04 088	2	6,3x45
14	000 02 925	2	27
15	627 13 232	1	
16	000 05 424	1	M8x50
17	627 11 610	1	
18	627 10 545	2	
19	627 10 617	2	
20	627 10 616	1	
21	627 10 618	1	
22	000 00 062	1	M12
23	804 91 571	2	
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25	000 05 337	1	M40x1,5

CUTTING BARS



IDENTIFICATION NUMBER FOR ORDERING

for FPM 804 209 - 1,25 m.

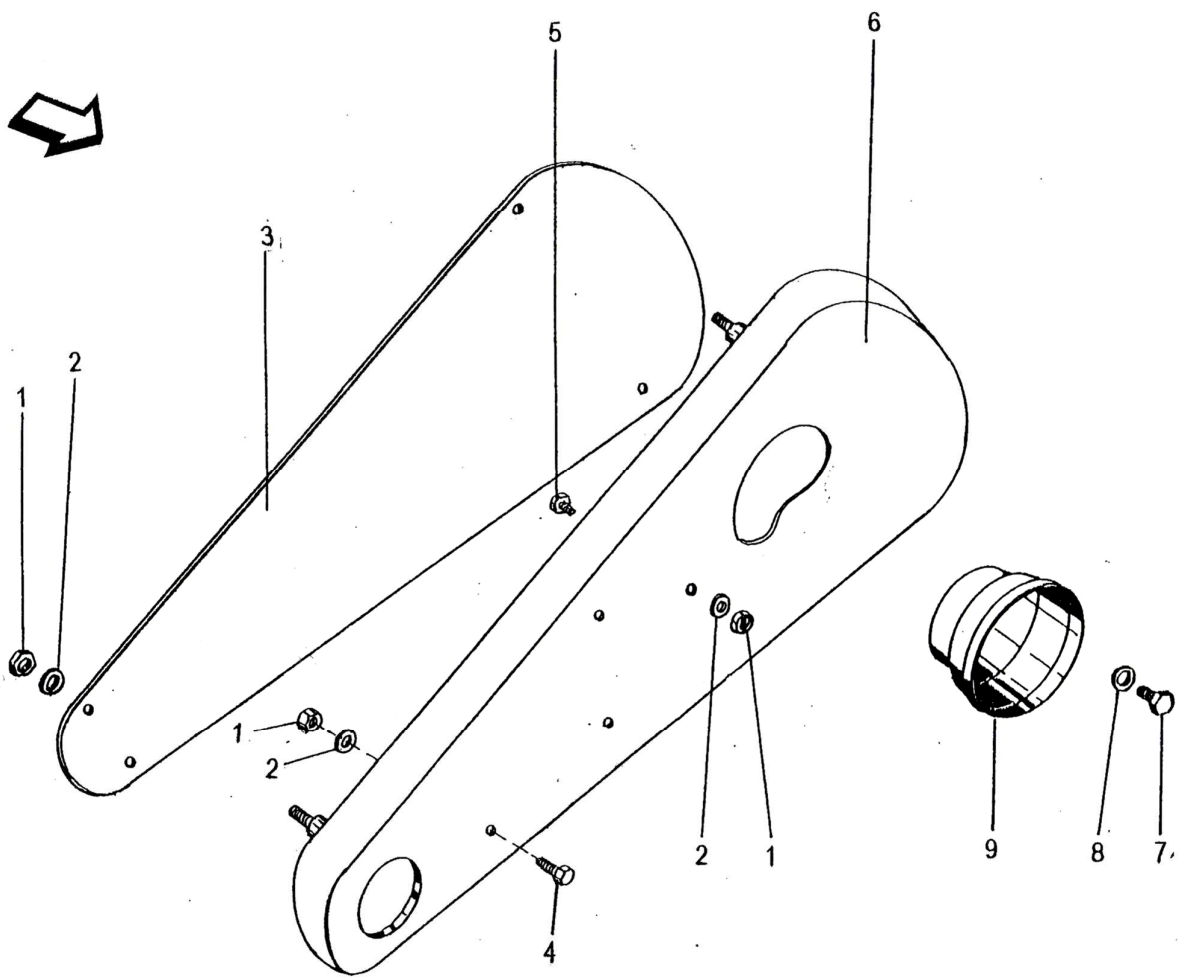
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3	627 14 271	1	
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7	000 05 545	1	6x25
8	000 05 617	1	6x27
9	000 05 546	17	6x14
10	000 05 549	4	6x18
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12	627 10 776	1	
13	627 14 272	1	
14	627 13 463	1	
15	000 05 538	9	6x20

IDENTIFICATION NUMBER FOR ORDERING

for FPM 804 218 - 1,6 m.

1	627 10 775	34	
2	627 13 467	1	
3	627 12 086	1	
4	627 12 698	7	
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6	000 00 076	7	6x22
7	000 05 545	1	6x25
8	000 05 617	1	6x27
9	000 05 546	3	6x14
10	000 05 549	6	6x18
11	627 12 907	3	
12	627 10 776	1	
13	627 10 803	1	
14	627 13 463	1	
15	000 05 538	9	6x20

BODYWORK

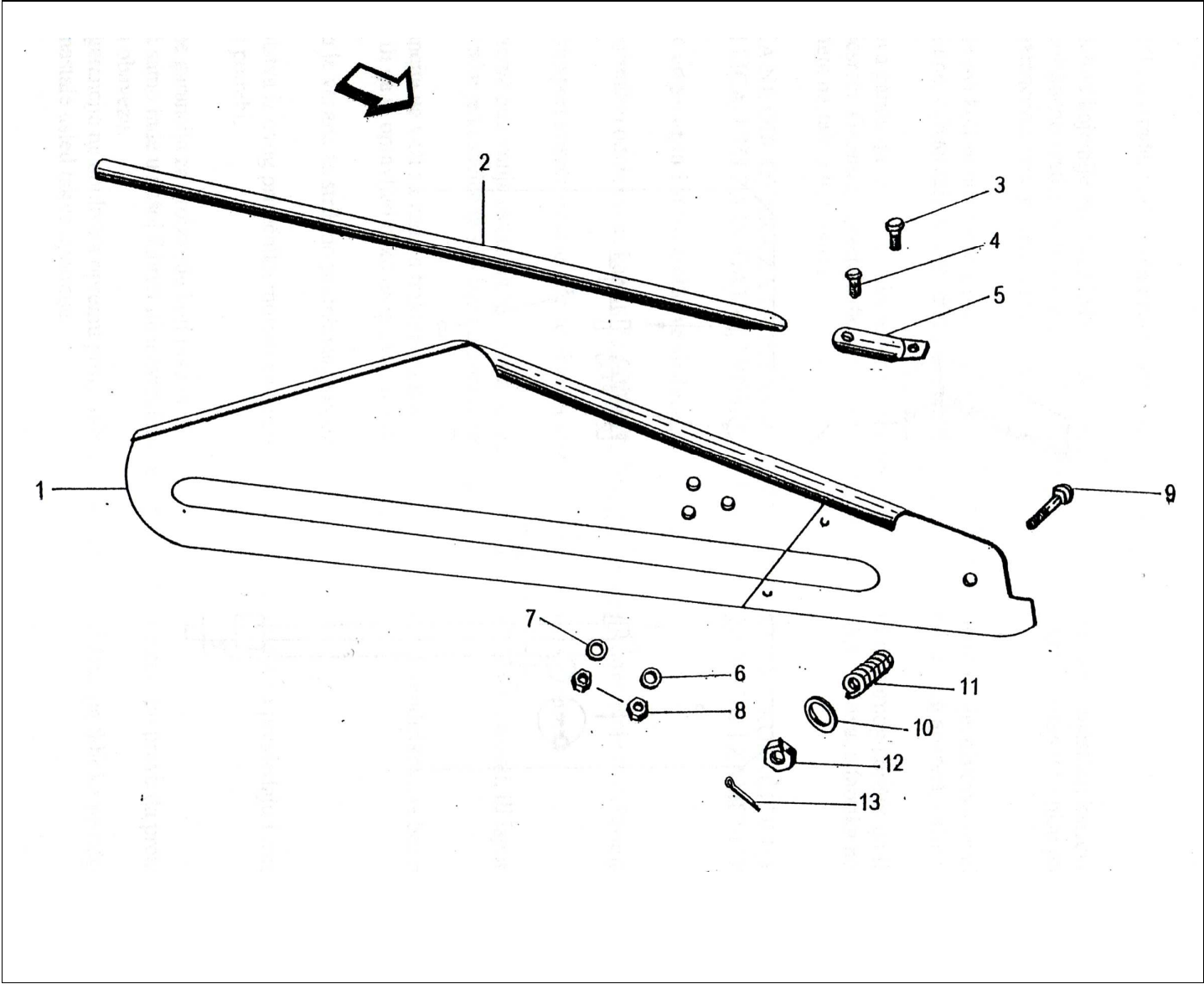


IDENTIFICATION NUMBER
FOR ORDERING

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5	000 09 985	3	M8x20
6	804 91 716	1	
7	000 00 054	4	M6x15
8	000 00 069	4	6
9	627 12 681	1	

SHOVING BOARD

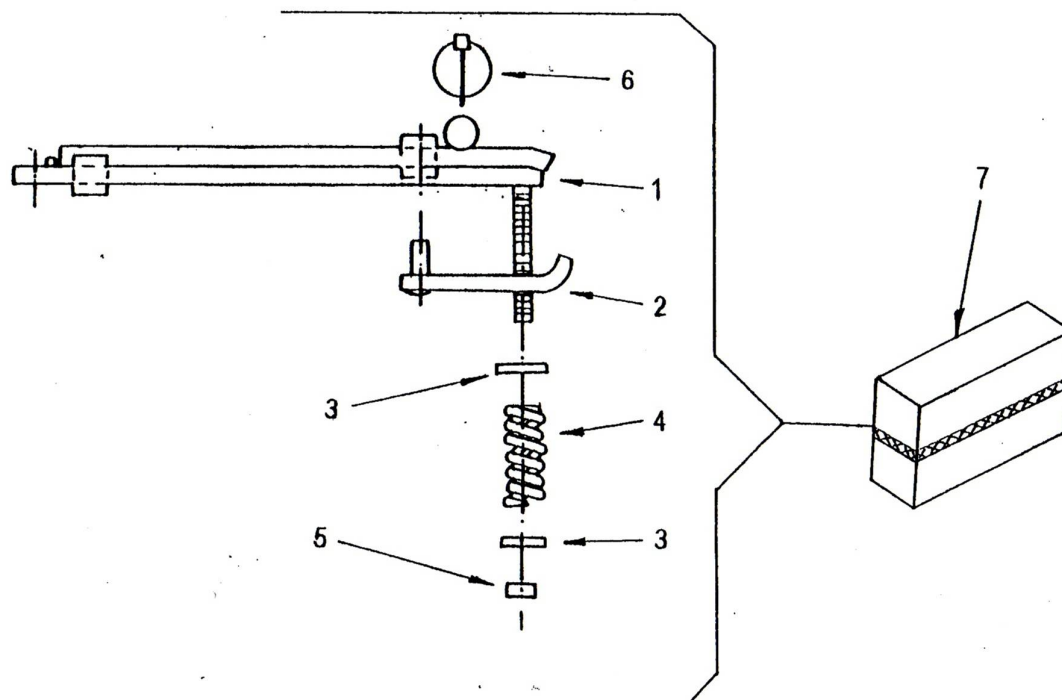
strana 35



IDENTIFICATION NUMBER
FOR ORDERING

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4	000 05 501	1	M8x50
5	627 10 119	1	
6	000 00 065	1	8
7	000 02 493	1	10
8	000 00 060	2	M8
9	627 10 708	1	
10	000 00 066	1	12
11	850 12 033	1	
12	000 00 062	1	M12
13	000 02 556	1	3,2x30

BALANCE LATH



IDENTIFICATION NUMBER FOR ORDERING

1	627 13 065	1	
2	627 13 059	1	
3	627 12 011	2	
4	627 10 618	1	
5	000 00 063	1	M16
6	611 20 010	1	
7	627 13 053	1	1 > 6



Obrazac: 1.

IMT "STANDARD" HOLDING A.D. BOLJEVAC
FABRIKA MAŠINA I ORUĐA d.o.o. BOLJEVAC

Broj: 1154
2001

U V E R E N J E

PRIMENJENE SU MERE ZAŠTITE NA RADU

Na: Zadnja traktorska kosačica sa dva rezna pruta.

Vrsta, tip, serija i namena: Zadnja nošena za male traktore prema ISO 730/II,
IMT 804 209 - zahvat 1,25m
IMT 804 218 - zahvat 1,60 m
za košenje na brdsko planinskom području i manjim parcelama.

Godina proizvodnje: maj 2001.

Tehnički podaci: IMT 804 209 - radna širina 1,25 m; učinak do 1,5 ha/h;
IMT 804 218 - radna širina 1,60 m; učinak do 2 ha/h; broj obrtaja
izlaznog vratila traktora 540 min⁻¹; radna brzina od 4 - 12 km/h;
transportna brzina 20 km/h.

Spisak priložene dokumentacije: Uputstvo za rukovanje i održavanje, servisna knjižica i garantni list.

NAPOMENA: Zadnje traktorske kosačice sa dva rezna pruta koristiti prema uputstvu
za rukovanje i održavanje. U zoni rada nesmeju da se nalaze lica ili
životinje.

Ovlašćeno lice
Stambanolić
STANDARD
BOLJEVAC
1

CERTIFICATE

OCCUPATIONAL SAFETY MEASURES WERE APPLIED

On: rear tractor mower with two cutting rods

Type, series and purpose: Rear carried for small tractors according to ISO 730/II

IMT 804 209 – grasp 1.25m

IMT 804 218 – grasp 1.60m

For mowing in mountainous areas and smaller plots

Year of manuf.: may 2001

Technical data: IMT 804 209 – working width 1.25m, productivity up to 1.5 ha/h

IMT 804 218 – working width 1.60m, productivity up to 2 ha/h, number of cardan shaft rotations 540 min⁻¹, working speed 4-12 km/h, transport speed 20 km/h.

Supplied documentation: Instructions for handling, maintenance and safe operation and warranty card.

NOTE: Use the rear tractor mower with two cutting rods according to the instructions for handling and maintenance. Persons or animals must not be exposed to the area of work.



IMT FMO "STANDARD" AD BOLJEVAC

Đorđa Simeonovića 25

19370 Boljevac

Srbija i Crna Gora

IZJAVA O USAGLAŠENOSTI 98/37/CE

Ovim izjavljujemo, u okviru naše odgovornosti, da je proizvod

Tip: Traktorske kosačice sa dve pokretne rezne letve za traktore
prema ISO 730/II - 1979. kategorije 1N

Model: IMT 804 209 - radni zahvat 1,25 m
IMT 804 218 - radni zahvat 1,60 m

Godina proizvodnje: 2003

u saglasnosti sa bezbednosnim zahtevima utvrđenim od strane Evropske Direktive 98/37/CE.

Proizvod je u saglasnosti sa sledećim standardima:

DECLARATION OF CONFORMITY 98/37/CE

We hereby declare, within our responsibility, that the product

**Type: Tractor mower with two movable cutting bars for tractors acc.to ISO 730/II – 1979,
category IN**

Model: IMT 804 209 – working grasp 1.25m

IMT 804 218 – working grasp 1.60m

`Year of manufacture: 2003

is in accordance with the safety requirements established by European Directive 98/37 / CE.

The product is in compliance with the following standards:

DESCRIPTION	STANDARD
Safety of machinery - Basic concepts, general principles for construction - Part 1: Basic terminology and methodology	EN 292-1:1996
Safety of machinery - Basic concepts, general principles for construction - Part 2: Technical principles and specifications	EN 292-2:
Safety of machinery - Safety limits that define hazard zones in machines	EN 294:1997
Agricultural machinery - Machines in agriculture and forestry – manual mowers - Safety	EN 12733:2001
Agricultural self-propelled machines with driver and towed machines - common safety requirements	EN 1553: 1999

In Boljevac,

05.02.2004

Authorised person signature:
Branislav Rajić, mech.eng.



This machine meets the safety requirements of the European Machine Directive.



THE OPERATOR SHOULD COMPLY WITH THE SAFETY AND HEALTH PROTECTION REGULATIONS, AS WELL AS THE RULES ON ROAD TRAFFIC. IN THE OBJECTIVE OF YOUR OWN SECURITY USE THE ORIGINAL PRODUCTS PRODUCED BY FPM AGROMECHANIKA AD BOLJEVAC.



**FOR YOUR OWN SAFETY AND TO
OBTAIN THE BEST FROM YOUR
MOWER, USE ONLY ORIGINAL
PARTS PRODUCED BY FPM
AGROMEHANIKA AD BOLJEVAC**

FPM AGROMEHANIKA AD

19370 Boljevac, 25 Đorđa Simeonovića St.

TELI: Sales: 030/63 455; 030/63 356

Service: 030/63 619

Export-import: +381 (0) 30 63 531

FAX: +381 (0) 30 63 777