



HGM-550



Art. No.: HGM550

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D

original operating
instructions

**mulching mower HGM-
550**

Model: HGM-550

Serial number: _____

Both the model number and the serial number can be found on the rating plate on the machine. You should keep both numbers in a safe place for future reference. This manual explains the basic functions and uses of the machine.

Read the operating instructions before using the device. Please note the safety and warning instructions!

CONTENT / GENERAL

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1. GENERAL

1.1 Information about the operating instructions

This operating manual provides important information on how to use the HGM-550 mulching mower. The prerequisite for safe work is correct compliance with all of the safety instructions and handling instructions provided. In addition, the local accident prevention regulations and general safety regulations applicable to the area of application of the machine must be observed.

For your own safety and to protect third parties, please read the operating instructions carefully before using the machine for the first time, otherwise there is a risk of injury! As part of the product, this operating manual must be kept in a known location that is accessible to all users at all times and must be passed on if the machine is passed on to third parties.

name of the machine

The designation of the machine replaces the commercial name of the item to which this operating manual - see cover sheet - refers.

reservations

Information on technical data, dimensions and illustrations of the machine as well as changes to safety standards are subject to further development and are not binding for the goods delivered.

Subject to printing and wording errors.

1.2 limitation of liability

We have endeavoured to provide you with as much information as possible about accident prevention when operating the machine, but we accept no liability for incomplete information on the danger points and sources listed.

The manufacturer assumes no liability for damages resulting from:

- Failure to follow the operating instructions
- Improper use of the machine
- Improper assembly, commissioning, operation and maintenance of the machine
- Operate the machine at defective ones not properly attached or

INTRODUCTION / INTENDED USE / TECHNICAL DESCRIPTION

- non-functional safety and protection devices
- Failure to observe the instructions in the operating manual regarding transport, storage, function, operation, maintenance and care of the machine
- Unauthorized structural changes to the machine
- Inadequate monitoring of machine parts, that are subject to wear and tear
- Improperly performed repairs
- disasters caused by foreign body impact and force majeure

1.3 copyright protection

All documents are protected by copyright. Distribution and reproduction of documents, even in part, as well as communication of the content to Third are not permitted, so far not expressly promised.

2. INTENDED USE

The mulching mower is intended exclusively for mowing grass and similar plants in agriculture and forestry, green space and facility maintenance, and for cutting thin, non-woody undergrowth. However, the mulching mower is not suitable for lawns in parks!

The mulching mower chops up the vegetation into small pieces, which are left evenly scattered on site. The grass clippings do not pile up in one place and thus serve as natural fertilizer.

Any other use or use beyond this is not considered to be in accordance with the intended use. The manufacturer is not liable for any damage resulting from this. The user alone bears the risk.

Observing the operating and maintenance instructions and carrying out maintenance work as well as adhering to the maintenance intervals are part of the intended use.



Persons who are not familiar with the operating instructions, children, young people and persons under the influence of alcohol, drugs or medication are not permitted to operate the machine.

Possible misuse

Safety devices must not be dismantled or bypassed.
Use of non-approved accessories.
The machine must not be used for commercial purposes.



Caution - risk of injury! Safety and protective devices must not be deactivated!

3. TECHNICAL DESCRIPTION

The mulching mower is powered by a 4-stroke OHV petrol engine. The mulching mower is driven by two wheels with a lug profile.

The mowing mechanism is driven by a V-belt transmission and V-belt clutch. The gears are shifted using the clutch lever on the handlebar.

The mowing system of the mulcher consists of a sickle blade and is equipped with a blade brake (safety device).

Releasing the control bar blocks the rotation of the sickle blade within a very short time. A protective bar prevents the blade from accidentally coming into contact with walls or trees. A cover prevents your feet from getting into the blade's rotation area.

A foldable handlebar allows for convenient transport.

SPECIFICATIONS / ENVIRONMENT /

4. SPECIFICATIONS

Model	HGM-550
drive	LONCIN 4-stroke OHV gasoline engine
displacement	196cm ³
torque*	10.5 at 3,600 rpm fuel lead-free regular
gasoline	
fuel content	1.0liter
cutting width	max. 550 mm
sickle knife	1
Drive via	V-belt
Tires	pneumatic tires with field
tunnels	3.50-6
Permissible slope max.	20°
Operating weight	70 kg
Guaranteed sound power level	
LWA 103 dB(A)	

The technical data was valid at the time of printing and is subject to change without prior notice.

* Actual performance during continuous operation may be lower due to operating limitations and/or environmental influences.

5. ENVIRONMENT



Old motor devices are recyclable materials and therefore do not belong in household waste!

Please recycle waste and do not dispose of it as garbage. All tools, hoses and packaging must be sorted, taken to the local recycling center and disposed of in an environmentally friendly manner. The site must be protected against contamination with protected from leaking operating fluids.



Please contact your local waste disposal authority to find out about options for environmentally friendly and proper disposal.

6. SYMBOLS

Symbols are attached to the machine to provide important information about the product and instructions for use represent.

DANGER!

This is about your safety. This symbol indicates a danger, warning or caution.



Before commissioning, read and observe the operating instructions and safety information.



Before cleaning, maintenance or repair work, switch off the engine and disconnect the spark plug connector.

⚠ DANGER

health and risk of explosion through combustion engine



The engine's exhaust contains poisonous carbon monoxide. Being in an environment containing carbon monoxide can lead to unconsciousness and death.



Do not run the engine in an enclosed space.



Protect the engine from heat, sparks and Keep away from flames.



Do not smoke near the machine! Petrol is



extremely flammable and explosive. Before refueling, turn off the engine turn off and let cool down.



Operating resources: unleaded fuel
Use RON91 or higher.



Check engine oil!

Check the oil level before each use and after at least 8 operating hours (BTS).



Warning of hot surfaces. Danger of burns!

Do not touch hot engine parts. These remain hot for a short time even after the machine has been switched off.

SYMBOLS



Always wear eye protection when operating the machine.



Always wear hearing protection when operating the machine.



Wear protective gloves.



Wear safety shoes with steel toes.



RISK OF TOLLING!

If the maximum permitted incline is exceeded, there is a risk of tipping over. Under no circumstances should the maximum slope of 20° be exceeded.



WARNING! Keep feet away from rotating parts.

When the engine is running, keep sufficient distance from the mower blade.



WARNING! Keep hands away from rotating parts.

Only touch machine parts when they have come to a complete standstill. Never open or remove protective devices when the engine is running.

WARNING!

Danger through

objects thrown while the engine is running.



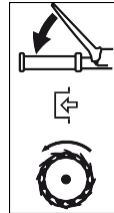
There is a risk that soil, humus, roots or other material may suddenly be ejected. For this reason, bystanders, children, pets and livestock must never - when starting or operating - stay in front of and next to the machine.



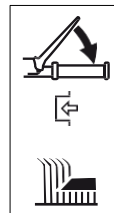
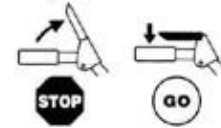
When the engine is running, maintain a sufficient safety distance of at least 30 meters.



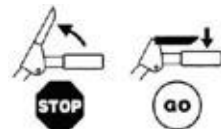
Guaranteed sound power level LWA



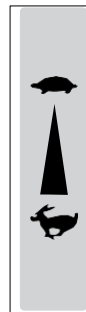
DRIVE
(left on the handlebar)



MOWER DRIVE
(Right on the handlebar)



throttle

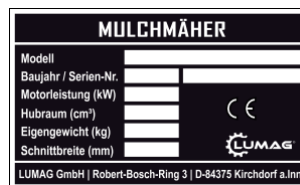


O means ENGINE OFF

tortoise means SLOW or IDLE

rabbit means VOLLGAS or SPEED

choke - when starting cold, set the lever to CHOKE position



nameplate

Equipped with model name, year of manufacture and serial number. Please always state this information when ordering spare parts or for service information.

SECURITY

7. SECURITY

This section provides a comprehensive overview of all important safety aspects for adequate protection of the operator and for safe and trouble-free operation.

Failure to follow the instructions and safety information contained in this manual may result in significant hazards.

7.1 warnings

Warning notices are marked with symbols in this operating manual. The safety notices highlighted with a warning triangle refer to your personal safety, while notices without a warning triangle refer solely to material damage.

The instructions must be strictly followed to avoid accidents, personal injury and property damage.

DANGER

Failure to follow these instructions may result in serious danger to life or death.

WARNING

Failure to follow these instructions may result in death or serious injury.

CAUTION

Failure to follow these instructions may result in minor to moderate injury.

A NOTICE

Failure to follow these instructions may result in damage to the engine or other property.

The operating instructions also contain other important passages marked with the word CAUTION.

7.2 operational safety

WARNING

Familiarize yourself with the machine. Proper training is a prerequisite for working safely with this device. Incorrect operation or operation by untrained personnel can be dangerous.

Read the operating instructions for this machine carefully and observe the labels attached to the machine. Familiarize yourself with the use and restrictions as well as the with it related, specific, potential hazards.

Also, familiarize yourself with the controls and how to use them properly. Learn how to stop the machine and turn it off quickly. Inexperienced operators must be instructed by personnel who are familiar with the machine. Only then may they operate the machine.

In addition to the occupational safety instructions in this operating manual, the safety, accident prevention and environmental protection regulations as well as the road traffic regulations applicable to the area of application of the machine must be observed.

responsibility of the operator

The operator must make the operating instructions available to the operator and ensure that the operator has read and understood them. The operating instructions must be handed over. In addition, the operator must train the staff at regular intervals and inform them about the dangers involved in using the machine.

Furthermore, the operator is responsible for ensuring that the machine is always in technically perfect condition.

operator's responsibility

Only trained persons may start, operate and switch off the machine. The operator must be trained in the correct operation of the machine and familiar with the necessary safety devices. Insufficiently informed operators can

SECURITY

and endanger other persons through improper use.

First-time users should seek instruction from the seller to familiarize themselves with the characteristics of the motor-driven machine, its intended use and the necessary safety devices.

WARNING

Persons who are not familiar with the operating instructions, children, young people under the age of 18 and people under the influence of alcohol, drugs or medication are not permitted to operate the machine. Young people aged 16 and over may use the machine as part of a training course and under the supervision of a trained person.

General safety and accident prevention regulations

One inappropriate and not intended use of the machine is prohibited (see "Intended Use").

The machine must be checked for traffic and operational safety before each use.

Working with the machine requires a high level of attention.

- Pay attention to the environmental conditions at the workplace.
- In the working area and surrounding area of the machine ensure adequate lighting conditions.
- Make sure you have a secure footing in bad weather and on uneven terrain.

To minimize the risk to the operator, it is essential to wear appropriate personal protective equipment (PPE) when handling the machine. The following protective measures must be observed:

- Tight-fitting work clothing that does not restrict movement. It is primarily used to protect against being caught by moving parts.
- **soundproofing agents** such as hearing protection, earmuffs, etc. to protect against hearing damage.



DANGER! Noise can be harmful to health. If the permissible noise level of 80 dB(A) is exceeded, hearing protection must be worn.

- **face mask** for the Protection before Respiratory diseases to retain fine dust or particles.
- **safety glasses with side protection** around the eyes to protect against dust or splinters.
- **work gloves** made of sturdy leather to protect against sharp edges, splinters or excessive vibration.
- **Safety shoes or boots with steel cap** to protect against uneven, sharp-edged surfaces or falling objects. The safety footwear also ensures a secure footing.
- **protective helmet** to protect the head from falling objects and swinging loads. It can also protect against injuries in confined situations.

When moving to a new location or preparing for transport, e.g. with a vehicle or trailer, switch off the engine and wait until the work tools have come to a standstill. Then remove the spark plug connector and close the fuel tap (if available).

The machine must not be transported or moved with the engine running. The machine must only be transported in an upright position.

Caution at rotating tools - **Keep a safe distance!**

Do not place hands or feet near rotating parts.

Be careful with tools that are running after the machine. Do not work on the machine until the tools have come to a complete stop, the throttle is in the OFF position and the spark plug connector has been removed.

The effectiveness of the controls must not be unduly influenced or revoked.

Operating the machine at a higher speed than recommended in the "Technical Data" can cause engine damage. A high speed increases the risk of accidents!

SECURITY

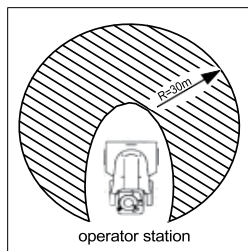
work and danger area

The operator is liable for all damage to third parties and their property. Before commissioning and starting the machine, the immediate area must be checked!

⚠ WARNING

Risk of injury from moving machine parts or moving motor devices; hazards by flying or hurled particles. High risk of injury!

It is forbidden to stay in the danger zone of the machine (at least 30 meters), and the work area must be secured! Before starting the machine, make sure that uninvolved persons, especially children and animals, are at an appropriate safety distance.



Before starting work, the area to be cleaned must be carefully inspected. Remove any foreign objects such as stones, wires, metal or glass objects, toys, etc. that could be caught and thrown by rotating tools. When working, watch for other foreign objects and remove them in good time.

Adapt the working speed to the relevant environmental conditions. Always operate the machine at walking pace.

Guide the machine in such a way that you protect yourself from being crushed between the machine and the obstacle.

The machine should be operated over as level terrain as possible to prevent it from tipping, rolling, slipping or falling during mowing.

ATTENTION! Be particularly careful when working on slopes. If possible, always work across the slope!

The application in an inclined position must not exceed the max. inclination of 20°, otherwise failure of the engine lubricant would inevitably lead to defects in important engine components.

Failure to do so may result in a risk of tipping over!

Operate the machine on the edges of pits, dumps and embankments, on garage edges and on ledges in such a way that there is no risk of falling or tipping over.

Never operate the machine on wet grass. Poor foothold may cause you to slip.

When moving the machine backwards, be particularly careful to avoid slipping or falling. Be careful, there is a risk of tripping!

Driving on or crossing gravel paths, sidewalks and roads requires special care and attention from the operator. Always be aware of hidden dangers and traffic.

When working in enclosed areas, the safety distance from the edge must be maintained to avoid damaging the tool.

Only work when you are in good physical shape. Fatigue also leads to carelessness. You need to be particularly alert at the end of your working day. Carry out all work calmly and carefully.

Take breaks from work in good time. Vibrations or repeated work processes can cause damage to hands or arms.

Never work under the influence of alcohol, drugs or medication. Your vision, reaction time and judgment may be impaired.

Only operate the machine when all guards and protective guards are in place and functioning properly.

- Protective devices and parts must not be modified or repealed.
- Damaged protective devices and parts must be repaired or replaced as intended by an approved specialist workshop, unless otherwise stated in the operating instructions.

Start

Never start or run the engine in a closed or poorly ventilated area. The engine exhaust fumes contain carbon monoxide. Staying in a

SECURITY

carbon monoxide-containing atmosphere can lead to unconsciousness and death. Only operate the machine outdoors.

Before starting the engine, all controls to switch to neutral or idle position.

Never operate the machine without the guard installed and intact and without the guard bar (13) or front idler wheel (15).

When starting the engine, it is forbidden to stay in front of or next to the machine.

Operation

For your first mowing attempt, choose a clear and level area.

Humidity and rain increase the risk of slipping and falling – therefore, mow on slopes and steep sections with extra caution and only when the ground is dry and has good grip.

All controls must be clean, smooth and functional.

While working, the machine must be held firmly with both hands on the guide bar and the operator must not leave the operating position behind the machine.

Never adjust the handlebar during work -
Danger of accident!

During a work process but also in general Riding on the machine is not permitted.

If the mower becomes clogged, switch off the engine and remove the spark plug. Clean the tool with a suitable tool. Wear suitable gloves!

Tools can present a significant risk of injury if handled improperly. Make sure these parts are properly installed and securely fastened. Failure to do so could result in serious injury.

If there is a malfunction with the handlebar, stop the machine immediately and switch off the engine. Have the fault rectified immediately.

Do not overload the machine. In dense,

On flat or rotten surfaces, the working width must be reduced accordingly to prevent the cuttings from accumulating in front of the machine.

If the machine comes into contact with a foreign object, stop the engine and remove the spark plug. Inspect the machine for any damage. Have the damage repaired before restarting the machine and continuing to work.

If excessive vibration occurs, stop the engine immediately and inspect the mower deck and drive shaft. Never operate the machine with damaged wheels, tools or a damaged shaft.

end of work

Do not leave the machine running unattended, as long as the engine is running.

When the machine is taken out of service or during short interruptions, it must be secured against unauthorised use and the engine must be switched off.

For models with an ignition key, remove the key; otherwise, remove the spark plug connector.

Park the machine so that it does not tip over, can fall or slip away.

Store the machine properly when not in use. After use, store the machine in a locked, clean, frost-free and dry place that is inaccessible to children.

SECURITY

7.3 Safe handling of engine / operating materials / refueling

DANGER

Internal combustion engines pose a particular danger during operation and when refueling. Always read and observe the warnings and the additional safety instructions listed further down in this manual. Failure to observe these instructions could result in serious or even fatal injuries.

Do not start or run the engine indoors, in garages or in enclosed spaces. There is a risk of poisoning! Therefore, replace damaged exhaust parts immediately.

CAUTION

Avoid contact with hot fuel, oil, exhaust fumes and hot surfaces.

Never touch the engine or exhaust while the engine is running or after it has been turned off. These areas become very hot and can cause burns. Allow time for the engine to cool before attempting any maintenance or adjustment.

To reduce the risk of fire, keep the engine and exhaust free of grass, leaves, excessive grease or exhaust buildup.

Before refueling, switch off the engine and let it cool down.

Smoking and any open fire is not permitted. Fuels



can contain solvent-like substances. Skin and Avoid eye contact with petroleum products. Wear gloves when refueling.

Do not spill fuel or oil. If fuel or oil is spilled, clean the machine immediately. Do not allow fuel to come into contact with clothing. If fuel gets on clothing, change clothing immediately.



Make sure that no fuel or oil gets into the ground (environmental protection!). Use suitable support.

Carefully loosen the tank cap so that the existing pressure in the tank can slowly be reduced.

Check the fuel lines, tank cap and tank for leaks or cracks. The machine must not be operated if there is such damage.

Close the tank cap properly after refueling.

To start the machine, change location (at least 3 meters away from the refueling area).

Fuels cannot be stored indefinitely. Only buy as much as you plan to use in a few months. Do not use old fuel!

Transport and store fuel and oil only in approved and marked canisters.

Do not transport or store fuel and oil near flammable or easily combustible materials, sparks or open flames.

Never use a machine with a damaged ignition cable and spark plug connector. Danger of sparks!

Fuels and oils must be stored out of the reach of children in accordance with safety regulations.

SECURITY

7.4 service security

⚠ WARNING

Improper maintenance or failure to observe or remedy a defect, technical fault or problem can become a source of danger during operation. Only operate machines that have been regularly and correctly maintained. This is the only way you can be sure that you will operate your machine safely, economically and without problems. And for a long time to come.

Do not perform maintenance, cleaning or adjustments while the machine is running. Rotating parts can cause serious injury.

On machines with petrol engines before maintenance, cleaning and repair work pull the spark plug connector and unscrew the spark plug to prevent accidental starting.

defeat protective devices and if work tools show signs of wear, they must be checked regularly and replaced if necessary.

Do not operate the machine without an air filter.

Damaged cutting tools (cracked, knocked out or otherwise damaged) must be replaced. When replacing the blades, wear suitable tools and protective gloves.

Check nuts and bolts regularly to ensure they are tight and tighten if necessary.

The machine must be operated with minimal noise and emissions. Only run the engine under the conditions specified in the "Technical Data".

The stickers on the machine warn of dangers. The machine must always be kept clean and any damaged stickers and markings must be replaced immediately.

Do not use fuels or other flammable solvents to clean machine parts. Danger of explosion!

Do not use a high-pressure cleaner to clean the machine. Water penetrating the machine may damage it.

Keep moisture away from live parts. This can lead to a short circuit.

Always keep the machine clean and clean it after every use. Always keep the machine's controls dry and free of resin, oil and grease. Controls such as the clutch lever, throttle lever, etc. must not be improperly locked, manipulated or changed. Never tilt the machine for cleaning!

Do not stack flammable materials near the motor housing. The hot machine housing can cause a fire.



The disposal laws and regulations for operating materials and parts contaminated with operating materials must be observed. To protect the environment, dispose of the operating materials as hazardous waste, even if only small quantities are involved.

Clean the engine cooling fins of any dirt.

Check the tank cap regularly for leaks.

After cleaning, maintenance and repair work be sure to reinstall protective devices and mudguards and put them in the protective position.

Before switching on and operating the machine, make sure that all tools are removed.

Maintenance and repair work may only be carried out as described in this manual. All other work must be carried out by a specialist workshop or LUMAG service workshop.

Work on the electrical system may only be carried out by qualified electricians.

Only use original LUMAG spare parts and accessories. The use of other spare parts and accessories increases the risk of accidents. We accept no liability for any resulting damage.

7.5 electrical system

People wearing a pacemaker must not touch the live parts of the ignition system when the engine is running.

SECURITY

7.6 residual risks and protective measures

Mechanical residual hazards

capture, winding

The sickle blade can catch and pull in pieces of clothing, cords, wires and other foreign objects.
→ Check the area to be worked on for any foreign objects. Keep your distance from trees, fences and other borders and wear tight-fitting clothing.

pulling in, catching

Rotating parts such as the sickle blade can pull in and catch loose clothing.
→ Tight-fitting protective clothing must always be worn. Scarves, shawls and the like must be removed and are not permitted.

Squeeze

Careless operation of the machine can result in serious injuries.
→ Be particularly careful on uneven terrain or on areas with dense vegetation, flat surfaces or areas with rotting underneath. Make sure you have a secure footing.

neglect of ergonomic principles

Negligent use of personal protective equipment (PPE)

Careless use or omission of personal protective equipment can result in serious injury.
→ Wear prescribed protective equipment.

Human behavior, misconduct

→ Always concentrate fully on all work.
Residual risk - Can never be ruled out.

Electrical Residual Hazards

Electrical contact

Touching the spark plug connector while the engine is running may result in an electric shock.
→ Never touch the spark plug connector or touch the spark plug while the engine is running.

Thermal residual hazards

burns, chilblains

Touching the exhaust/housing can cause burns.
→ Allow the motor device to cool down.

danger from noise

hearing loss

Longer, unprotected work with dem Motor equipment can cause hearing damage.
→ Always wear hearing protection.

Hazards from materials and other substances

contact, inhalation

The exhaust gases the machine can cause damage to health.
→ Use the motor device only outdoors and take regular breaks.

fire, explosion

Fuel is flammable.
→ During work and refueling of the Smoking and open flames are prohibited near the machine.

Danger from vibration

whole-body vibration

Prolonged work with the machine can lead to physical impairments due to vibrations.
→ Take regular breaks.

Other hazards

Slipping, tripping or falling of persons

On unstable and uneven surfaces, you may be injured by tripping.
→ Be aware of obstacles in the work area. Always ensure you have a secure footing and wear safety shoes.

Behavior in an Emergency

If an accident occurs, initiate the necessary first aid measures and request qualified medical assistance as soon as possible. When requesting assistance, provide the following information:

- where it happened - what happened - how many injured
- what type of injury - waiting for questions

SCOPE OF DELIVERY / ASSEMBLY FRONT GUIDE WHEEL

8. SCOPE OF DELIVERY

The machine is delivered pre-assembled and in a wooden frame.

- ▶ mulching mower with petrol engine
- ▶ front idler
- ▶ skids + protective bar

After unpacking, check the contents of the box or transport box for

- completeness
- possible transport damage

Report any complaints to the dealer immediately or the manufacturer. Later complaints will not be accepted.

9. ASSEMBLY OF PROTECTIVE BAR, SLIDING SKIDS & FRONT GUIDE WHEEL

For assembly, please follow the order of the steps below. If you have any questions or problems during assembly, please contact us. You can reach us by email: info@lumag-maschinen.de or by phone at +49 (0)85 71 / 92 556-0.

A NOTICE

The corresponding mounting parts must be installed with the engine and device drive switched off.

handlebar(4) adjust to working height

See ... 12. COMMISSIONING / 12.1

Preparing for use / 1. Adjust the handlebar (page 16).

protective bar(13) & skids (12).

Two height settings each

(Skids: A+B / Protective bar: C) possible!



Overview of mounting points



Assembly example (skids & protective bar)

A NOTICE

If the front idler wheel (15) is used, then Remove the protective bar (13) and the skids (12) and install the front idler. When starting the machine, either the protective bar or the front idler must be installed = protective device.

front idler(15)

1. skids (12) and protective bar (13) dismantle.
2. Assembly as shown in the illustration.



front idler (mounted)



Mounting points: D + E

Use the crank to easily adjust the cutting height.

1. Remove the fixing bolt (B) from the holder.
2. Adjust the desired cutting height by turning the crank (A).
4. Insert the fixing bolt (B) back into the holder.

Fix the front idler wheel.

1. Swing the front idler wheel inwards.
2. Insert the fixing bolt (B) back into the holder on the wheel.
3. Wheel with the split pin (C) on the fixing bolt (B) fix.

CONTROLS

10. CONTROLS

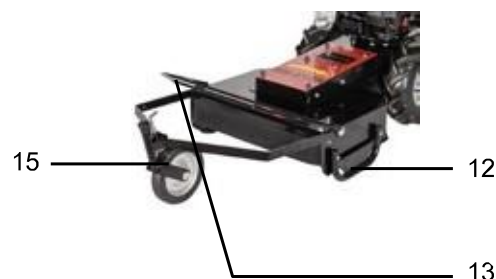


- 1 Clutch lever with safety device for the mower drive
- 2 rubber grips
- 3 clutch lever for the drive
- 4 handlebar
- 5 Motor
- 6 nameplate
- 7 grab handle, rear
- 8 drive wheel
- 9 rear protective cover (protective device)
- 10 mower housing
- 11 sickle knife
- 12 skids
- 13 protective guard (protective device)
- 14 front protective cloth (protective device)
- 15 front idler
- 16 grab handle, front (optional)
- 17 cover (protective device)
- 18 clamping screw
- 19 throttle control lever



11

Abb. ohne Frontleitrad (15)



FUNCTIONS

11. FUNCTIONS

Motor

The functions and controls can be found from the enclosed engine manual.

A NOTICE

The CHOKE is integrated in the throttle lever (19). To do this, simply set the throttle lever to full throttle until it clicks into place.

throttle lever, also engine off switch

In addition to the stepless speed control, the throttle control lever (19) on the handlebar (4) can be used to operate the CHOKE and the ENGINE OFF SWITCH.

A NOTICE

The throttle lever also serves as an EMERGENCY STOP SWITCH. If a quick shutdown is necessary in an emergency situation, pull the throttle lever back immediately. The engine will be switched off.

safety circuit

The machine is equipped with safety clutch levers. When the clutch levers (1+3) are released, the mower drive and drive system are immediately switched off. The clutch levers are then in the STOP position.

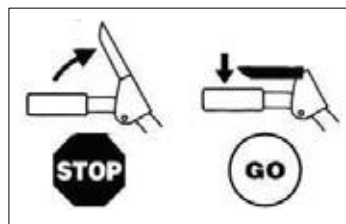
A NOTICE

The clutch levers also serve as EMERGENCY STOP SWITCHES. If a quick shutdown is required in dangerous situations, the clutch levers must be released immediately. The clutch levers then automatically swing into the STOP position. The mowing and driving drive are switched off.

gearshift for driving(left on the handlebar)

The drive is activated by pressing the clutch lever (3) on the handlebar. To do this, the safety mechanism on the clutch lever must be pressed.

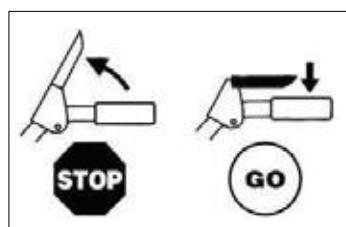
When you release the clutch lever, the drive is switched off = safety circuit.



gearshift for mowing(right on the handlebar)

The mowing drive is activated by pressing the clutch lever (1) on the handlebar.

When you release the clutch lever, the mower drive is switched off = safety switch. A blade brake stops the drive in a short time.



FUNCTIONS / COMMISSIONING

handlebar

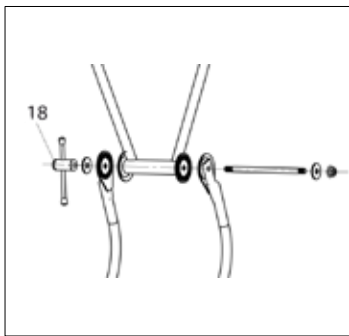
The handlebar can be adjusted without tools. Before use, always place the handlebar in the working position and secure it.

Bring the handlebar into working position

1. clamping screw (18) some revolutions open (counterclockwise).
2. Swivel the handlebar to the desired height.
3. Tighten the clamping screw (clockwise).

Put the handlebar into transport position

1. clamping screw (18) some revolutions open (counterclockwise).
2. Swing the handlebar forward into the transport position.
3. Tighten the clamping screw (clockwise).



grab handles

The handles (7+16(optional)) are provided for lifting the machine. For loading and transporting with a lifting device, suitable lifting devices must be attached to the handles.

A NOTICE

Do not lift the machine by the protective cover (17)!

12. COMMISSIONING

12.1 preparation for deployment

Check that the sickle blade is in good condition and properly attached.

Blunt cutting edges can be reground and slight bends can be straightened.

A NOTICE

A severely damaged or bent sickle blade must be replaced with a new one.

⚠ WARNING

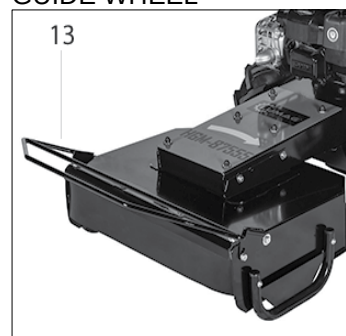
Only operate the machine if the sickle blade is correctly installed and secured. Furthermore, make absolutely sure that all guards are installed and in the protective position.

1. Adjust the handlebar (4)

The position of the handlebar can be adjusted using the clamping screw (18). It is recommended to adjust the handlebar so that it does not hinder starting.

2. Bring the protective bar (13) into working position

For assembly see 9. ASSEMBLY OF PROTECTIVE BAR, SLIDING SKIDS & FRONT GUIDE WHEEL



3. Adjust cutting height

The cutting height is adjusted by adjusting the two skids (12), which are attached to the mower housing (10) with screw connections.

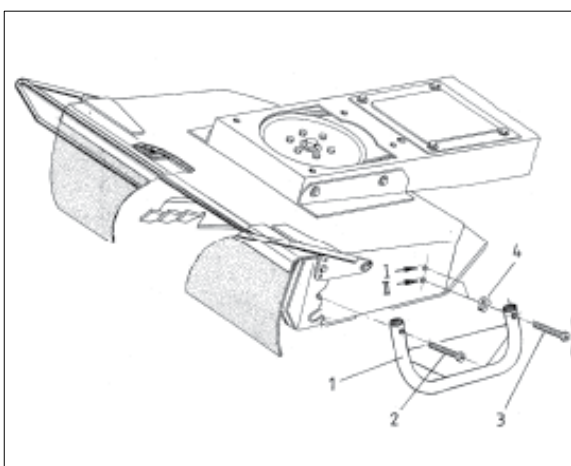
Two cutting heights are possible:

- I) approx. 30 mm = cutting height (basic position)
- II) approx. 100 mm = cutting height

COMMISSIONING

Adjusting the cutting height from I to II:

1. Loosen the front screw (2) slightly.
2. Loosen the rear screw (3) and unscrew it completely.
3. Swing the skid to position II and insert the rear screw (3) through the skid and saddle disc (4) into the corresponding hole on the mower housing (10).
4. From the inside of the mower housing, screw on the lock nut with washer and tighten it.
5. Retighten the front screw (2).
6. Adjust the 2nd skid, see steps 1 - 5.



A NOTICE

Both skids must always be set to the same height.

12.2 Operation



You may only carry out the work described in this chapter after you have read and understood Chapter 3. SAFETY. It concerns your personal safety!

Please note that the service life and operational reliability of the engine are largely dependent on the running-in period. Always let a cold engine warm up for a few minutes and do not demand full power immediately. Always remember to take good care of the air filter and use clean fuel.

A NOTICE

During the first 20 hours of operation, do not push the engine to the limits of its performance.

control refilling oil



A NOTICE

Before each use, the oil level must be checked and the engine oil topped up if necessary! Incorrect oil filling can lead to irreparable damage to the engine. In this case, the seller and manufacturer will not accept any warranty.

- machine so stand up, that the Motor is horizontal.
- Commercially available engine oil with the specification Use 10W-30 or 10W-40.

For operation, please refer to the enclosed engine manual.

refueling

This engine requires only regular unleaded gasoline with a research octane rating of 91 or higher. Use only fresh, clean fuel. Water or impurities in the gasoline will damage the fuel system.

Refuel in a well-ventilated area with the engine stopped. If the engine has been running immediately before, allow it to cool down first. Never refuel the engine in a building where gasoline vapors can be reached by flames or sparks.

⚠ WARNING

Gasoline is extremely flammable and explosive. You can suffer burns or other serious injuries when handling fuel.

- Turn off the engine and allow it to cool for at least 10 minutes before removing the fuel tank cap.
- engine from heat, sparks and flames keep away.
- Store the fuel outdoors or in a well-ventilated area.
- Keep gasoline away from sparks, open flames, pilot lights, heat sources and other sources of ignition.
- To allow space for the gasoline to expand, Do not fill beyond the lower edge of the fuel filler neck.
- Do not spill fuel, use

COMMISSIONING

suitable filling aids.

- If fuel is spilled, wait until the vapors have dissipated before starting the engine.

Please also note the instructions in the engine manual.

For operation, please refer to the enclosed engine manual.

Checks before each commissioning

Before starting up the machine, carry out the following checks. The machine must be on a firm, level surface. This is the only way to ensure safe operation of the machine.

- Is the cutting height set correctly?
- Are all covers and mudguards correctly installed?
- Is the machine complete or are parts missing?
- Check all electrical wiring and connections for damage or corrosion.
- Check all load-bearing metal parts for mechanical damage.
- Check the tire pressure.
- Check the engine:
 - the engine oil level,
 - the filling of the fuel tank (the tank should be at least half full),
 - the condition of the air filter,
 - the fuel lines and connections for leaks and mechanical damage,
 - the fuel tank, cap and connections for cracks and leaks.

Read and follow the engine operating instructions.

starting the engine

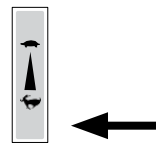
⚠ DANGER

Do not start or run the engine in an enclosed space. The exhaust fumes contain carbon monoxide, which is very toxic if inhaled!

Do not put your feet near the mower deck! Install protective equipment and observe it!

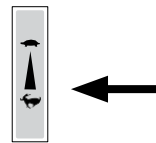
Cold engine:

1. Set the throttle lever (19) to the CHOKE position.

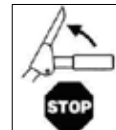


Warm engine:

1. Set the throttle lever (19) to 2/3 of the throttle position or to full throttle "HASE".

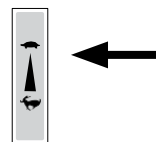


2. Both clutch levers (1+3) are in neutral position. The levers point upwards.



3. Start the engine. Pull the starter rope until you feel some resistance, then pull the rope firmly and slowly let it roll back in.

4. After starting, move the throttle lever (19) back to SLOW "TURTLE".



If the throttle was in the CHOKE position to start the machine, move the throttle to the SLOW "TURTLE" position while the engine warms up.

COMMISSIONING

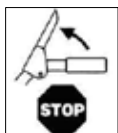
⚠ WARNING

Warning of hot surfaces!

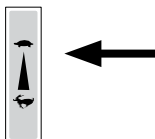
When the engine is running and immediately after switching off the machine, there is a risk of burns from the exhaust and other engine components. Children must be kept away from the running engine and hot components.

Turn off the engine

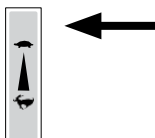
- Both clutch lever (1+3) stand in Neutral position. The levers point upwards.



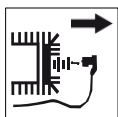
- Throttle lever (19) to SLOW "TURTLE" and let the engine run for about 30 seconds.



- Set the throttle lever (19) to the STOP position.



- Remove spark plug connector = protection against unauthorized use!



A NOTICE

The throttle lever also serves as an EMERGENCY STOP SWITCH. In an emergency, the engine can be stopped by moving the throttle to the stop position. Stopping the engine suddenly at full throttle can cause engine damage.



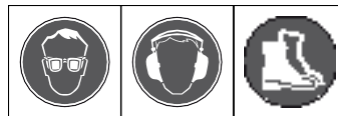
Never move the throttle lever to the choke position to stop the engine. This could cause misfire or engine damage.

idle speed

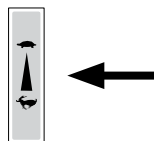
When not mulching, place the throttle in the "SLOW" position to reduce the load on the engine. Lowering the engine speed at idle extends engine life, saves fuel and reduces noise levels.

Drive

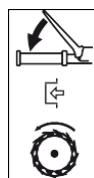
- Start the engine, see...
12. STARTING THE MACHINE / Starting the engine (page 18).
- Personal protective clothing (PPE) such as eye, Wear hearing protection and safety shoes.



- Set the throttle to 1/2 throttle.

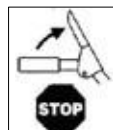


- Switch on the drive.
Press the clutch lever (3) on the left side of the handlebar onto the handle, thereby activating the safety mechanism.

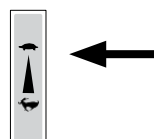


stopping

- Switch off the drive.
Release the clutch lever (3) on the left side of the handlebar.



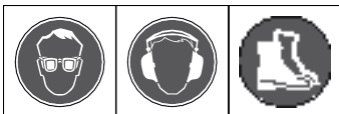
- Throttle lever (19) to SLOW "TURTLE" place



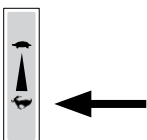
COMMISSIONING

mowing

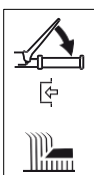
1. Start the engine, see...
12. STARTING THE MACHINE / Starting the engine (page 18).
2. Personal protective clothing (PPE) such as eye, Wear hearing protection and safety shoes.



3. Set the throttle lever (19) to full throttle "HASE".



4. Switch on the mower drive:
 - 4.1. Slowly press the clutch lever (1) on the right-hand side of the handlebar onto the handle. The lever should be pulled slowly for two thirds of the stroke so that the sickle blade has enough time to start rotating and the engine is not stopped. The start of the sickle blade is sometimes accompanied by the V-belt slipping and the associated noises. Once the sickle blade has started moving, press the clutch lever (1) all the way onto the handle.



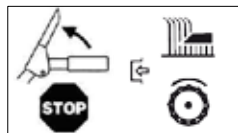
5. Switch on the drive.
Pull the clutch lever (3) on the left side of the handlebar to the handlebar after activating the safety mechanism. The mulching mower starts moving.

A NOTICE

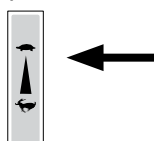
When turning or reversing the mulching mower, it is not necessary to switch off the mowing drive. The energy of the rotating motor is therefore not wasted unnecessarily.

stopping

1. Switch off the mower drive and the drive.
Release both clutch levers (1+3).



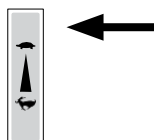
2. Throttle lever (19) to SLOW "TURTLE" place.



A NOTICE

After mulching or if there is a blockage, switch off the drive. The mulching mower stops, but the sickle blade continues to move and cuts itself free. Then switch off the mower drive.

3. Turn off the engine.
Set the throttle lever (19) to the STOP position.



COMMISSIONING

12.3 recommendation for mulching

The grass is chopped into small pieces several times using a special knife (sickle knife) and its structure is broken up. The clippings are pressed directly through the turf onto the ground. The torn grass particles rot in a very short time and release nutrients into the soil.

► When mulching, the grass must be dry to avoid clumping. If the clippings clump, they remain on the lawn cover and damage the grass underneath by blocking out light and causing rotting processes.

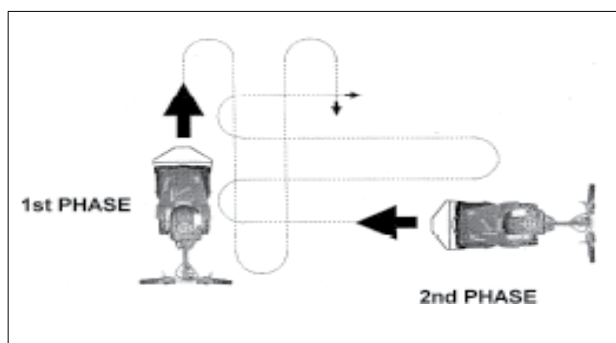
► It is best to start mulching in the spring to promote growth throughout the year.

► Mulching should be carried out 3 - 4 times a year. The first mulching should be carried out at the beginning of the growing season and the last mulching at the end of the growing season. Further mulching depends on the grass growth.

► Mulch the grass to a height of 25 cm in one pass. The cutting height should be adjusted according to the quality of the lawn growth.

► If the grass is higher than 25 cm, it is mulching operations (see figure).
For the first operation, set the cutting height to higher position II, see ...

12. STARTING UP / 12.1. Preparation for use / 3. Adjusting the cutting height (page 16+17) During the second operation, the cutting height can be lowered to position I.



► If the area to be mown is too densely overgrown, lying flat or rotten underneath, then the working width must be reduced accordingly so that the clippings do not pile up in front of the machine. If this does happen, then the drive must be switched off immediately so that the machine can eject the piled up clippings.

► If a blockage occurs in the mower housing, the drive and mower drive must be switched off immediately and the engine must be turned off. Disconnect the spark plug connector and clear the blocked area of clippings and clean it.

► The cutting height is influenced by the skids. The skids copy the terrain. For this reason, when mowing on uneven surfaces, the cutting height may not be uniform.

⚠ DANGER

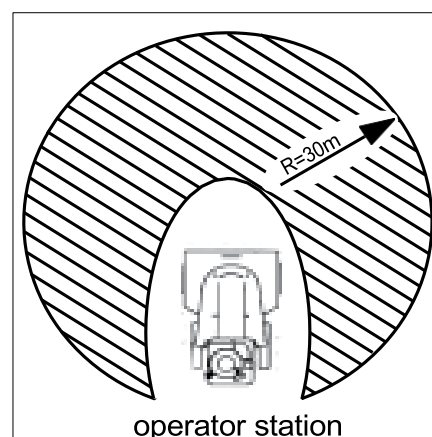
Danger zone: keep a distance of 30 meters!

Other people, especially children, pets and livestock, are prohibited from staying in the danger zone of the mulching mower, especially when starting and operating the machine.

Always check the immediate area before starting and driving off.

Before starting work, carefully inspect the area to be worked on. Remove any foreign objects such as stones, wires, thick branches, etc. During work, watch for other foreign objects and remove them in good time.

The operator of the machine is responsible for accidents, dangers or damage to third parties, as well as for damage to their property. If the operator notices that there are people, children or animals in this area, the machine must be switched off immediately and not restarted until the danger area is clear.



MAINTENANCE

13. MAINTENANCE

Regular maintenance extends the service life of the machine and ensures trouble-free operation.

All persons who carry out cleaning, maintenance and repair work on the machine must be technically qualified and appropriately trained. They must be aware of all dangers and risks associated with the machine. Further work not described in this operating manual may only be carried out by your LUMAG specialist workshop or authorized specialist workshops.

WARNING



Before all cleaning, maintenance and repair work: Switch off the engine, wait until the machine has come to a standstill and remove the spark plug connector from the spark plug.



Do not carry out maintenance work near open flames. Fire hazard!



When working in the immediate area of the sickle knife: Wear protective gloves!

13.1 maintenance

1. Turn off the engine and let it cool down.
2. The throttle is in the STOP position, in the STOP position. Disconnect the spark plug connector.
3. Make sure that the machine is in a safe operating condition. The machine is exposed to strong vibrations during operation, so all screw connections must be checked for tightness after a few hours.
4. After each use, any dirt and clippings that have accumulated in the mower deck must be removed. To prevent the engine from overheating, the cylinder cooling fins must be kept clean. Use commercially available multi-purpose oil to lightly oil all moving parts.
6. Reinstall the spark plug connector.



Never use a high-pressure cleaner to clean the machine. Water can penetrate into narrow slots and damage spindles, pulleys, bearings and the motor. Using a high-pressure cleaner will result in a shortened service life and operational capability.

MAINTENANCE

13.2 blade change (Fig. A)

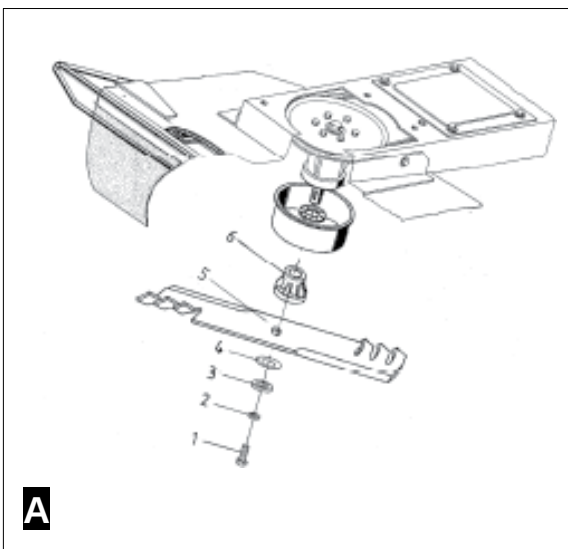


Switch off the engine and disconnect the spark plug connector.



Wear protective gloves!

1. Unscrew the blade screw (A/1), remove the washers (A/2 + A/3) and the disc spring (A/4).
2. When removing the blade screw (A/1), hold the blade (A/5) and then pull the screw all the way down.
3. Remove the sickle knife.
The blunted blade can be sharpened and slight bends can be straightened. Damaged blades (cracked, knocked out, severely bent or otherwise damaged) must be replaced immediately.
4. Assembly is carried out in reverse order. Make sure that the disc spring (A/4) is correctly centered using the centering disk (A/3).
5. Check the blade screw (A/1) for wear and replace if necessary. Tighten the blade screw to 70 Nm.
The locking washer (A/2) must be replaced with a new one.



A



The machine must not be operated if the sickle blade is not fully inserted!

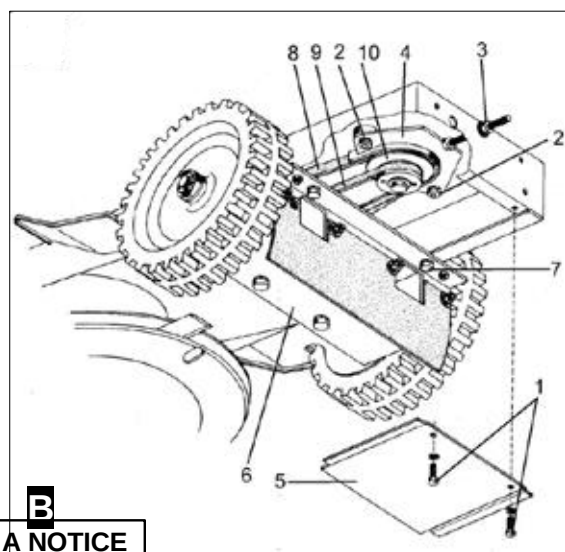
For all spare parts, the manufacturer's original versions must be used.



At the **resharpening**
desWhen using a sickle knife, protective goggles and gloves must be worn.

13.3 Drive belt tension for the traction drive (Fig. B)

1. Place the machine on a work table and secure the wheels with chocks.
2. Remove the lower cover (B/5).
3. Check the belt tension. Tighten the drive belt (B/9) if the belt gives way by more than 10 - 15 mm (thumb pressure).
4. Loosen both nuts (B/2).
5. Use the nut (B/3) to fine-tune and re-tension the drive belt. Tighten the belt with the nut (B/3) until the V-belt can still be pushed through by approx. 10 - 15 mm with your thumb and the drive belt for the mower drive (B/8) remains loose.
6. Retighten both nuts (B/2).
7. Reinstall the lower cover (B/5).



B

A NOTICE

When tightening the drive belt, always loosen both nuts (2).

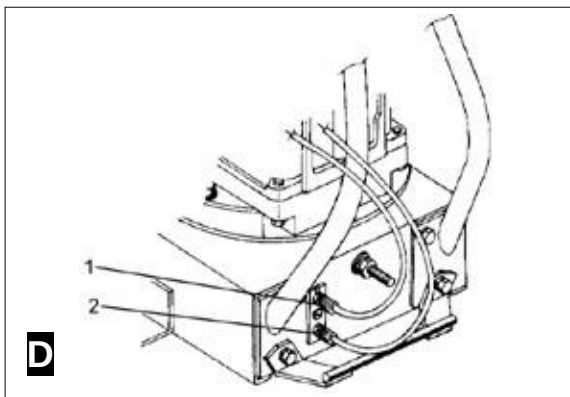
MAINTENANCE

13.4 Circuit for the drive (Fig. D+E)

Circuit for the drive (Fig. D)

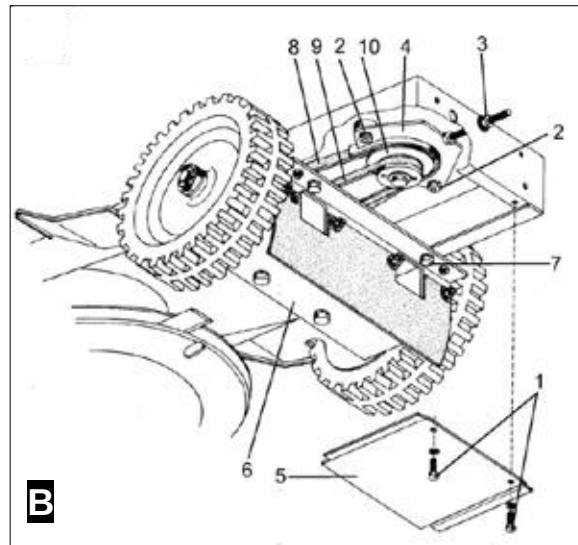
The setting is correct if, when the machine cannot be driven backwards due to the drive system.

1. The adjustment is made using the Bowden cable adjusting screw (D/2) and the adjusting screw on the clutch lever.

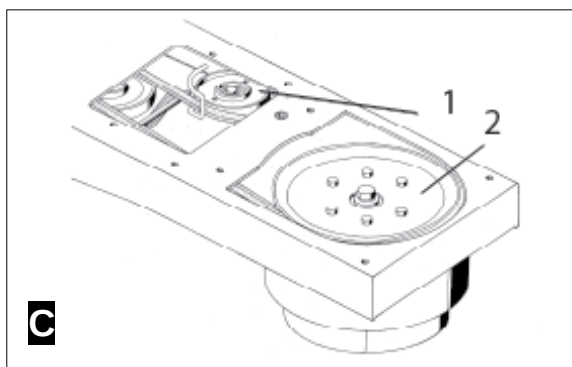


13.5 Changing the drive belt (Fig. B+C)

1. Place the machine on a work table and secure the wheels with chocks.
2. Remove the protective cover (17) from the machine.
3. Remove the lower cover (B/5).
4. Loosen both nuts (B/2).
5. Loosen nut (B/3).
6. Move the motor towards the blade shaft.
7. Remove the drive belt for the drive (B/9).
8. Remove belt tensioning device (B/4).
9. Remove the drive belt for the mower drive (B/8) from the pulley (B/10).
10. Remove the blade shaft pulley (C/2) from the hub (M6 screw and M6 nuts).
11. Remove the drive belt for the mower drive (B/8).
12. Install the two new drive belts in reverse order.
13. To tighten the drive belt, see ... 13. MAINTENANCE / 13.1 Maintenance / 13.3 Drive belt tension for the traction drive (page 23).
15. Reinstall the lower cover (B/5).
16. Reinstall the protective cover (17).



MAINTENANCE



Always replace damaged or worn belts with new original drive belts.

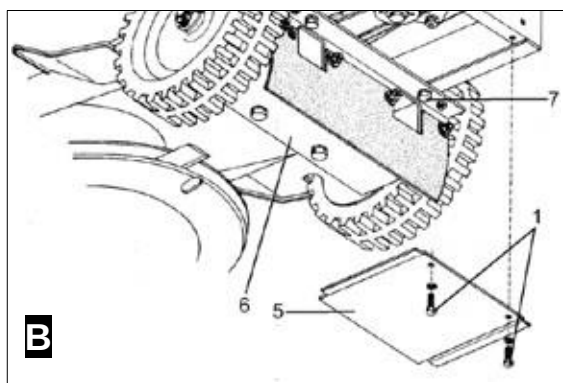


Only operate the machine if all protective and safety devices in protective position and are functional.

13.6 gearbox (Fig. B)

The transmission is permanently filled with SAE 80W-90 transmission oil.

1. Check every time you clean the gearbox oil expires.
visual inspection in the rear Part the housing cover (B/6).
2. If transmission oil leaks, the shaft seals must be replaced by an authorized workshop or by our LUMAG service team.



MAINTENANCE

13.7 Bowden cables

Lubricate the Bowden cables with silicone oil.

13.10 Motor

Maintenance and care of the engine can be found in the enclosed engine manual.

13.8 protective device

The front protective cloth (14) and rear protective cover (9) Check for damage before each use and replace if necessary.



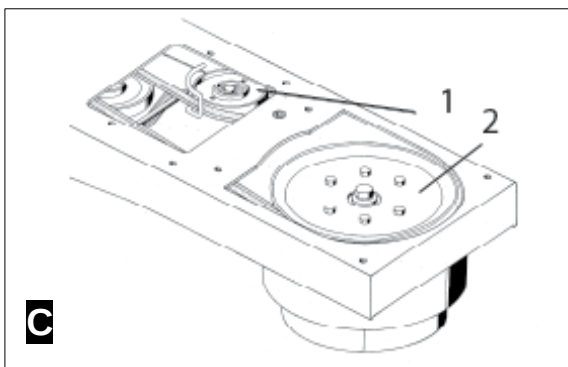
Only operate the machine if all protective and safety devices in protective position and are functional.

13.9 blade brake (Fig. C)

Check the run-on time of the sickle blade (11) before each use = safety device. If the run-on time after switching off the mower drive (at max. engine speed) is longer than 7 seconds, the brake band is probably defective or worn and must be replaced immediately.

The brake band is located itself behind the pulley (C/2).

1. protective cover (17) from the Remove the machine.
2. Replace brake band.
3. Replace the protective cover (17).
4. Check the run-on time of the sickle blade.



STORAGE / OPERATING HOURS LIMITATION

14. STORAGE

Storage of the machine for one month or longer.

Thoroughly remove clippings, dirt and deposits from the engine and machine.

Clean the engine with a cloth. Spraying with a strong water jet (e.g. high-pressure cleaner) should be avoided as water could enter the ignition and fuel system and cause malfunctions.

All moving parts with an environmentally friendly oil (do not use grease!) and run the machine briefly (let it run for 1-2 minutes).

Drain the fuel while running the engine until the fuel is used up.

Clean the air filter and if it is very dirty or replace it.

There should be a grease collar at the bearing location to protect the bearings from the ingress of dirt, plant juices and water.

Check that all moving parts are working properly. Replace any damaged or worn parts. Make sure that all screw connections are tightened.

Disconnect the spark plug connector.

Cover the machine and engine to protect it from dust and store in a dry, clean place, inaccessible to children and untrained persons.

Additionally, secure the machine against rolling away and unauthorized use (wheel chock). The machine must not be stored outdoors.

15. OPERATING HOURS RESTRICTION

Mulching mowers may not be operated in residential and small settlement areas or on the premises of hospitals and nursing homes all day on Sundays and public holidays, or on working days from 8 p.m. to 7 a.m.

Please also observe the regional regulations regarding noise protection.

TROUBLESHOOTING

16. TROUBLESHOOTING



Observe safety instructions!

Any faults in the machine or engine that require major intervention should always be repaired by your LUMAG specialist workshop or an authorized specialist workshop. Improper intervention will void the warranty.

Disturbance	Caused	remedy
Engine cannot be started	No fuel	filling the fuel tank
	recoil starter defective	Repairing the recoil starter
	No engine oil	refill engine oil
	Spark plug does not ignite	Clean or replace spark plug
	Throttle lever not in choke position when engine is cold	Set the throttle lever to the choke position
Engine is difficult to start or runs poorly	Too rich fuel mixture	Set the throttle to the "RABBIT" position
	carburetor incorrectly adjusted	Have the adjustment carried out by a specialist dealer
	Faulty spark plug, dirty or incorrectly adjusted	Clean spark plug, new adjust or replace
Engine gets too hot	Too little engine oil	refill engine oil
	cooling air system restricted	Clean the fan grille, inside Clean the cooling fins.
	air filter dirty	Clean the air filter
	carburetor not adjusted correctly	Have the carburetor adjusted by a specialist dealer
engine too little power	air filter dirty	Clean the air filter
	Cylinder head loose or gasket damaged	Tighten cylinder head, Replace the seal
	Too little compression	Have the engine checked by a specialist dealer
The drive or mower drive does not come to a standstill when the clutch levers are released	Clutch lever not adjusted correctly	Adjust the gearshift for driving or mowing
Excessive vibration	fastening screws loose	tighten the fastening screws
	sickle blade loose, bent or not set correctly	Stop the engine immediately! Check that all nuts and bolts are tight, replace damaged parts, adjust V-belt tension

If these measures do not correct the error or if errors occur that are not listed here, then Have your machine checked by a specialist.

WARRANTY / GUARANTEE / CUSTOMER SERVICE

17. WARRANTY / GUARANTEE / CUSTOMER SERVICE

WARRANTY

The machine is subject to the statutory warranty period. Any defects that can be proven to be due to material or assembly errors must be reported to the seller immediately. Proof of purchase of the machine must be provided by presenting the invoice and receipt when making a warranty claim.

The warranty is excluded with regard to parts if defects have arisen due to natural wear and tear, temperature and weather influences as well as defects resulting from negligent assembly, faulty connection, incorrect fuel/fuel mixture, installation, operation, maintenance, lubrication or force.

Furthermore, no warranty is provided for damage caused by inappropriate or improper use of the machine, such as improper modifications or repair work carried out by the owner or third parties, or by intentional overloading of the machine.

Wear parts with a limited service life (e.g. V-belts, clutch, throttle cable, spark plug, air filter, battery, blades, hoses, wheels, tools and other aids) as well as all setting and adjustment work are excluded from the warranty.

GUARANTEE

LUMAG guarantees impeccable quality and, without prejudice to the statutory warranty, provides a guarantee in the event of material or manufacturing defects. The guarantee for LUMAG products is 24 months for exclusively private use, and 12 months for commercial or professional use or rental, from the date of delivery.

The buyer must always prove warranty claims by providing the original purchase receipt. A copy of this must be enclosed with the warranty application. The buyer's address and machine type must be clearly identifiable for professional or commercial use. Without the original purchase receipt, we can only carry out the repair for a fee.

Please do not send a machine back to us without a SERVICE NUMBER that you have received from our service department. If we receive machines unsolicited, we cannot accept and process them. To request a SERVICE NUMBER, please contact our service team at:

info@lumag-maschinen.de

Please clearly label the shipping box with the SERVICE NUMBER to ensure quick identification.

Warranty work is carried out exclusively by our LUMAG service workshop. Defects that occur within the warranty period due to material or manufacturing defects must be remedied by repair if they have arisen despite proper operation and care of the machine. We reserve the right to make two repairs if the same defect occurs. If repair fails or is impossible, the machine can be exchanged for an equivalent device. If the exchange is also unsuccessful or impossible, there is the option of a replacement.

Normal wear and tear, natural aging, improper use, and cleaning, maintenance and adjustment work are generally not covered by the guarantee (e.g. cutting device, air and fuel filters, spark plugs and recoil starters, drive belts, tires, etc.). Due to operation and use, some components are subject to normal wear and tear, even when used as intended, and may need to be replaced in good time.

CUSTOMER SERVICE

If you have any technical questions, information about our products or would like to order spare parts, our service team is available as follows:

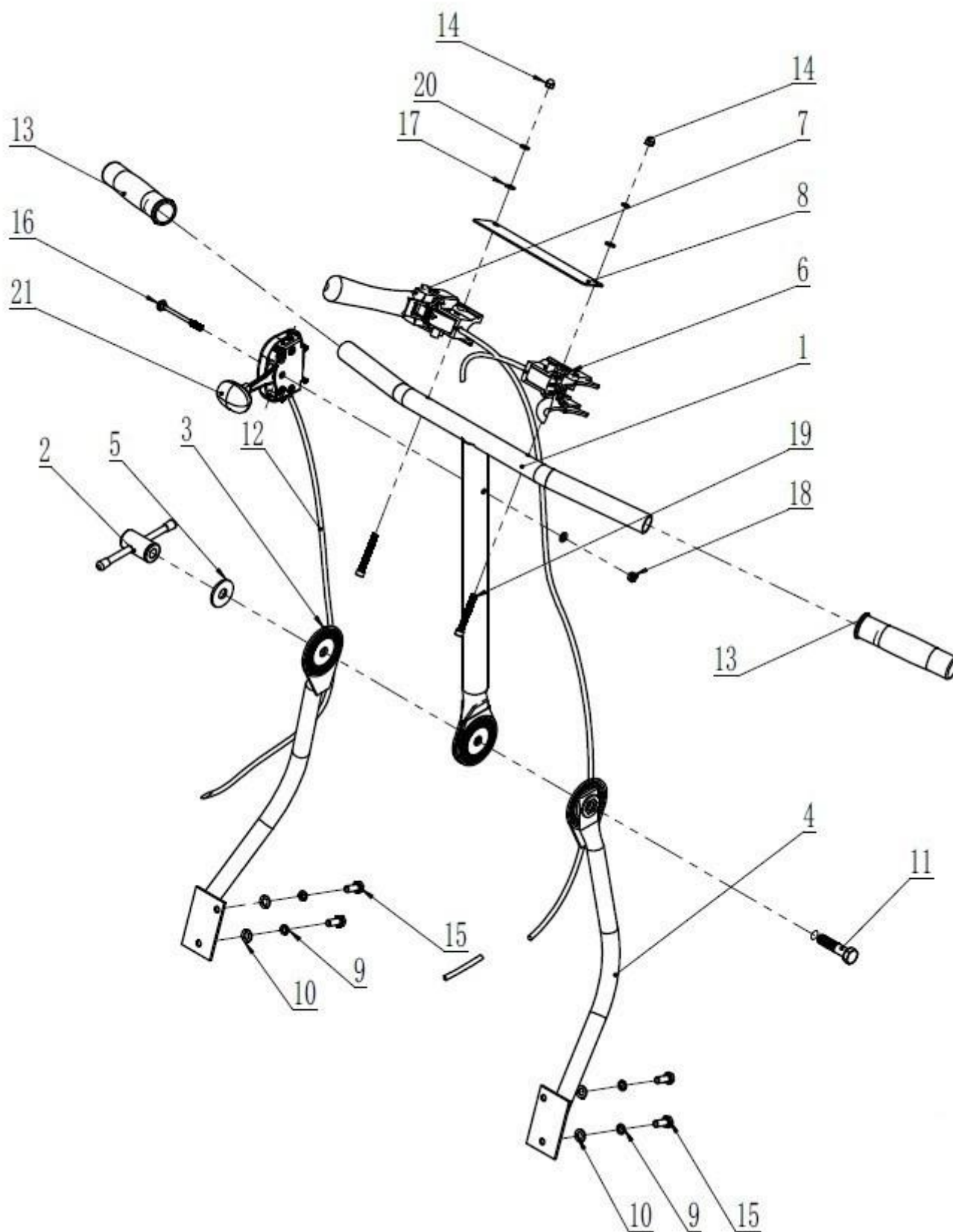
Service hours: Monday to Thursday from
7:30 a.m. - 12 noon and 1 p.m. - 5 p.m.
Friday from 7:30 am to 12:30 pm

Phone: 0049 / (0)8571 / 92 556-0
Fax: 0049 / (0)8571 / 92 556-19

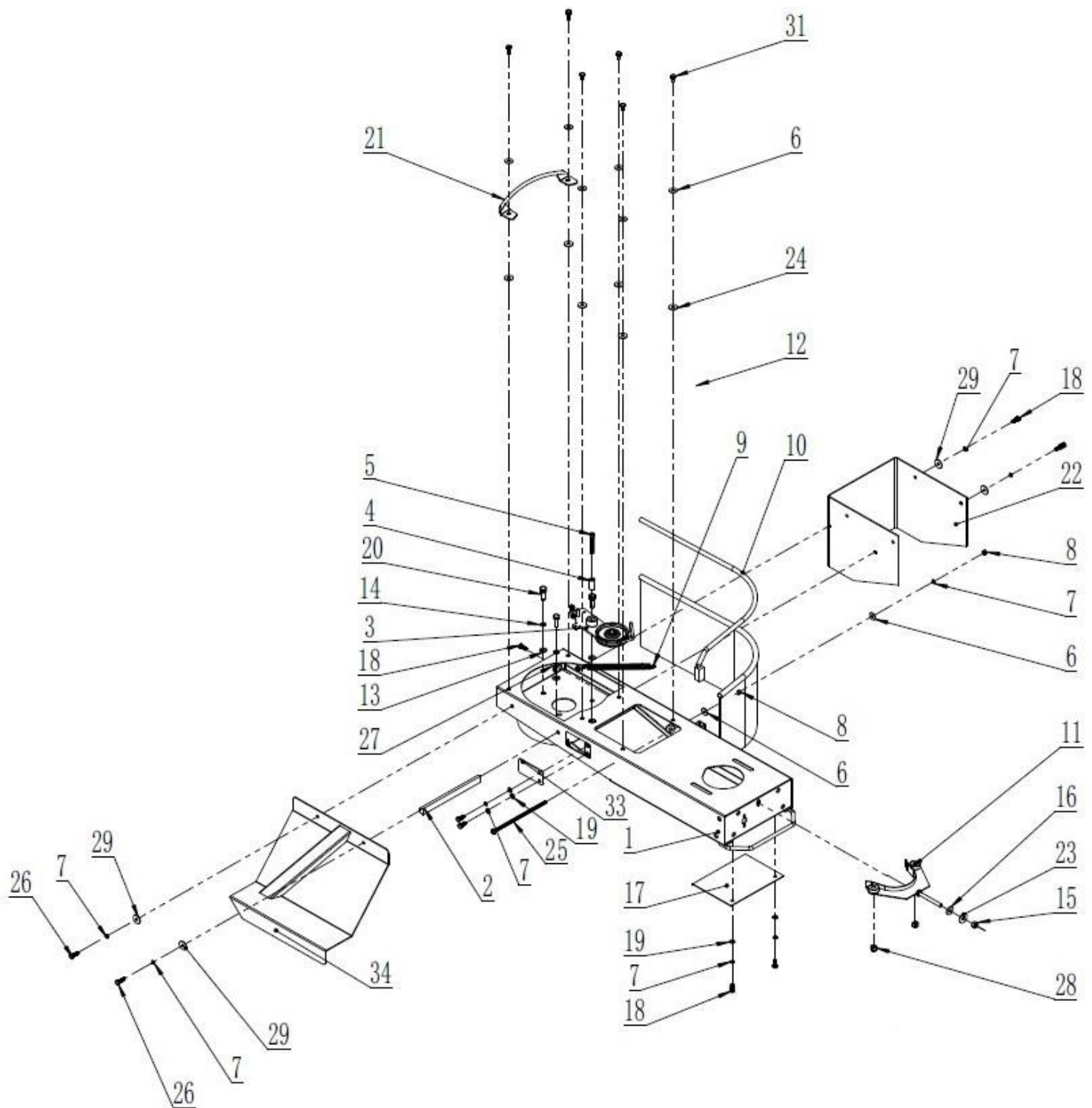
E-mail: info@lumag-maschinen.de

COMPONENTS OF THE MACHINE

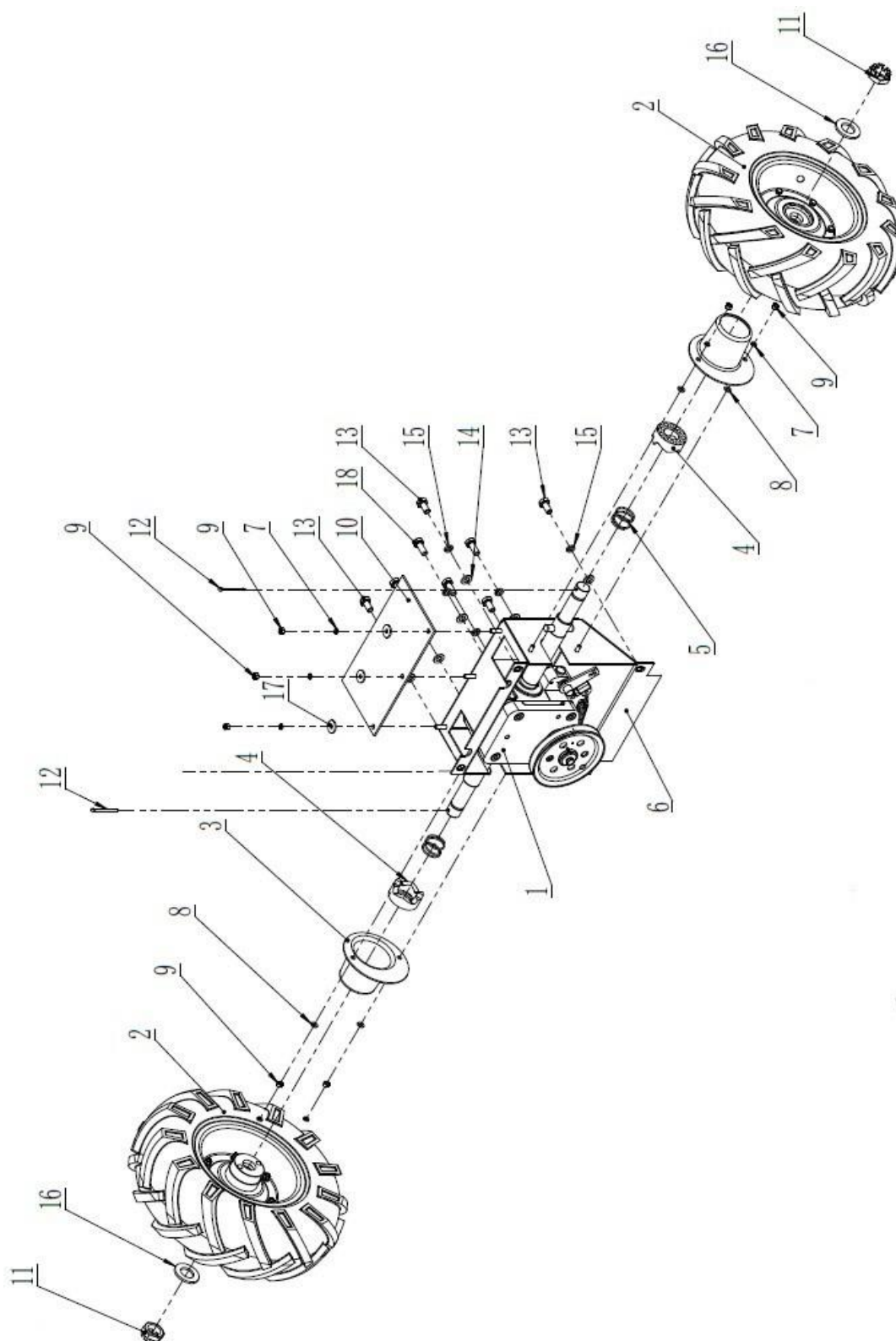
18. COMPONENTS OF THE MACHINE



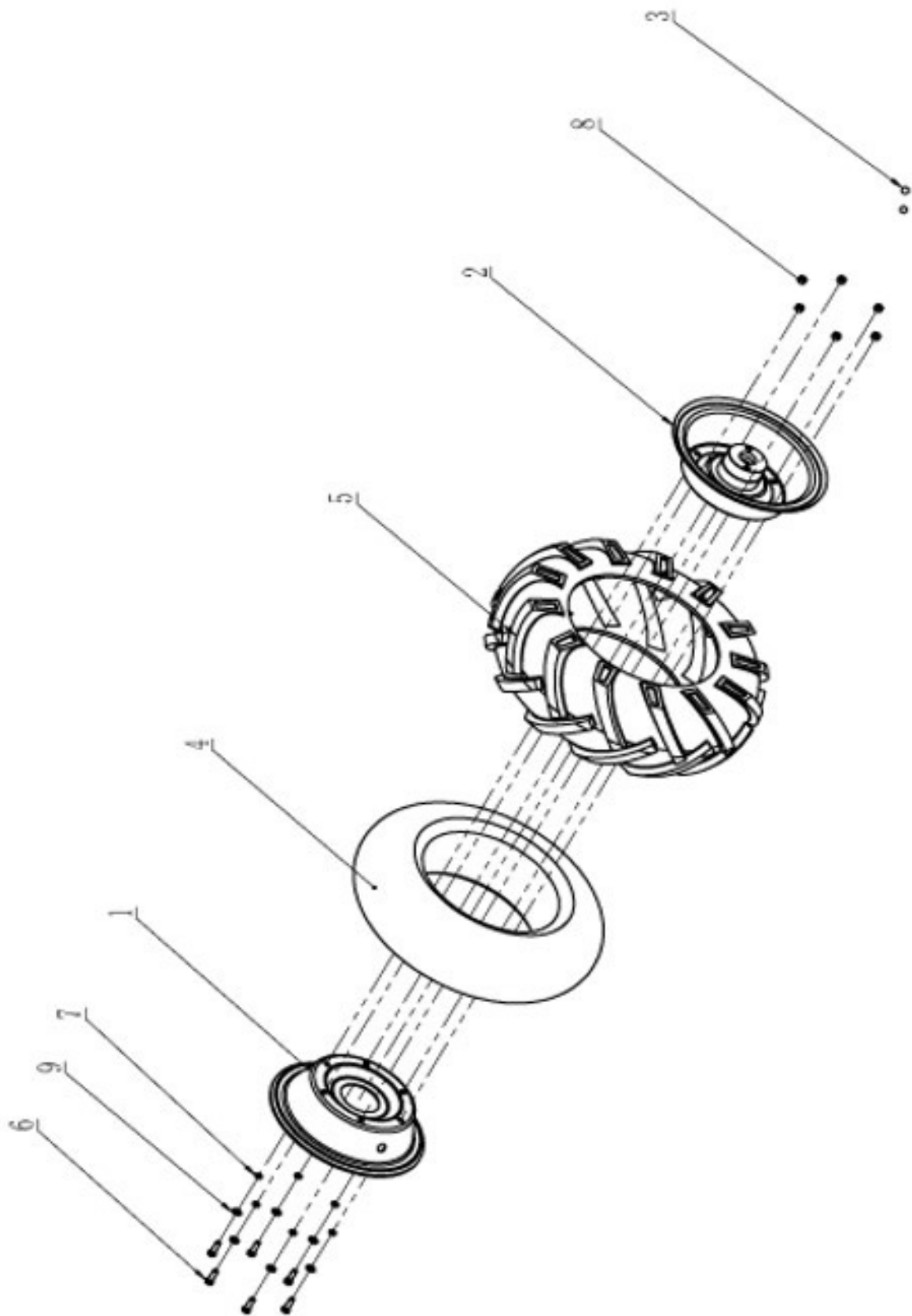
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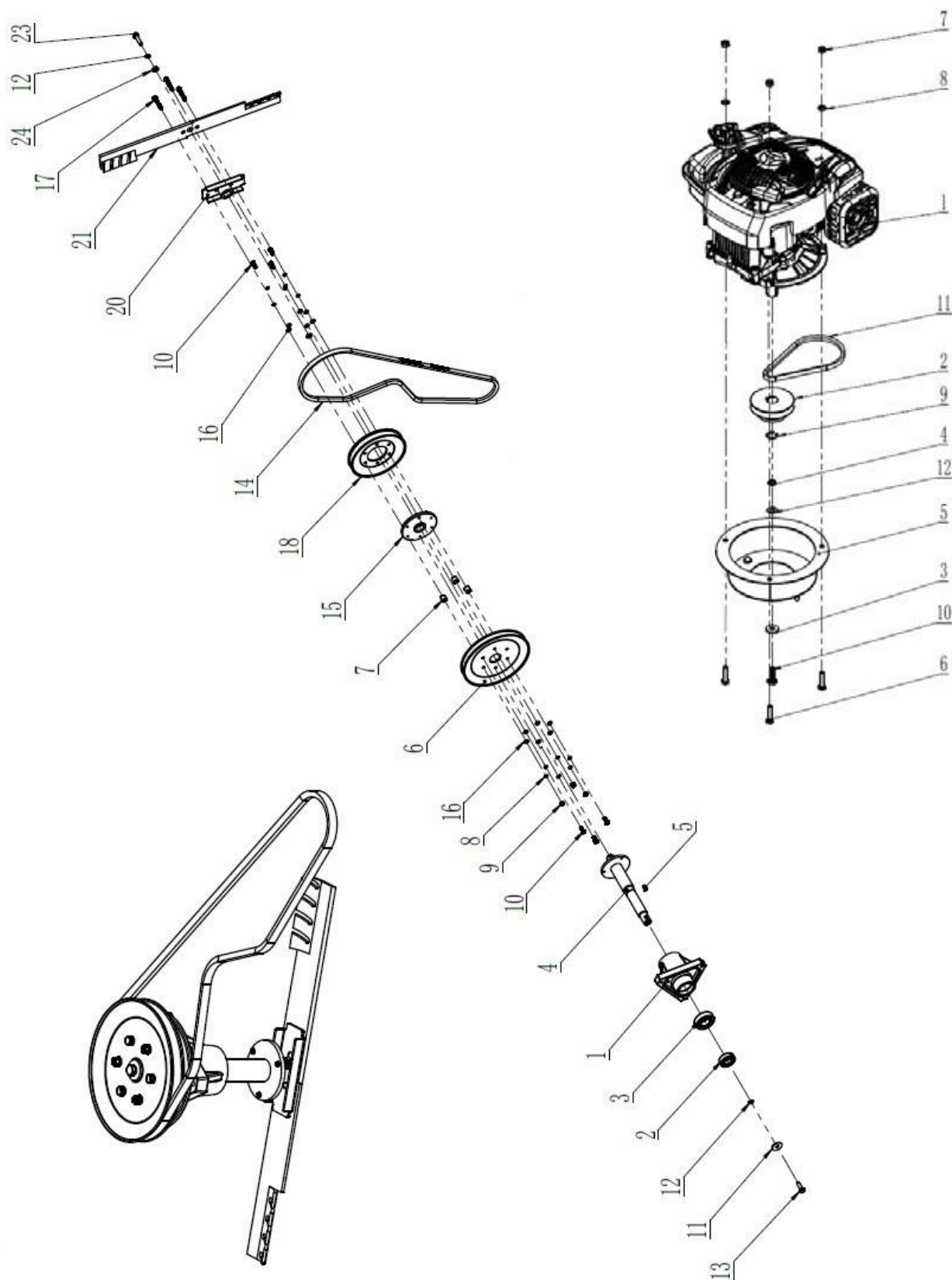
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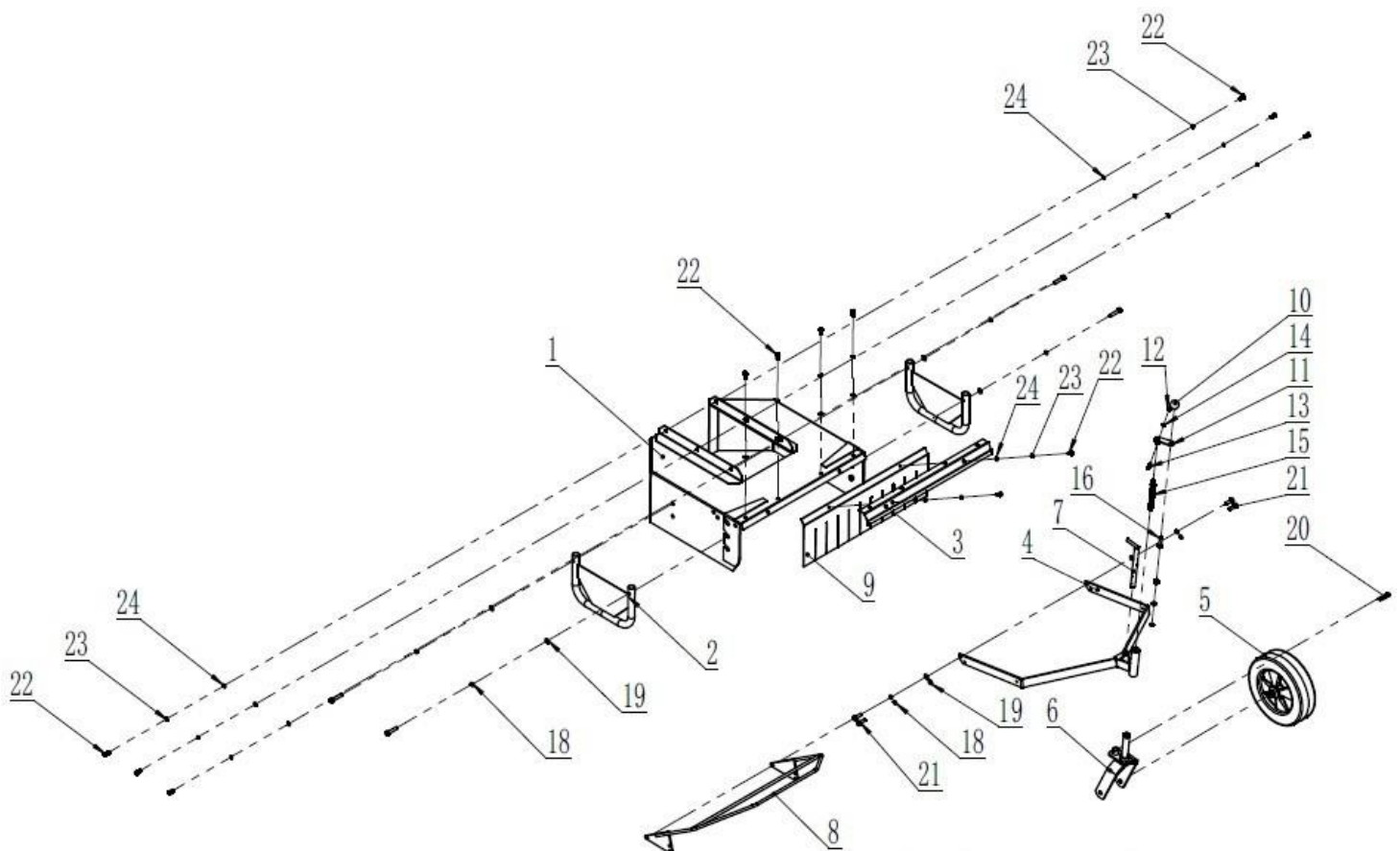
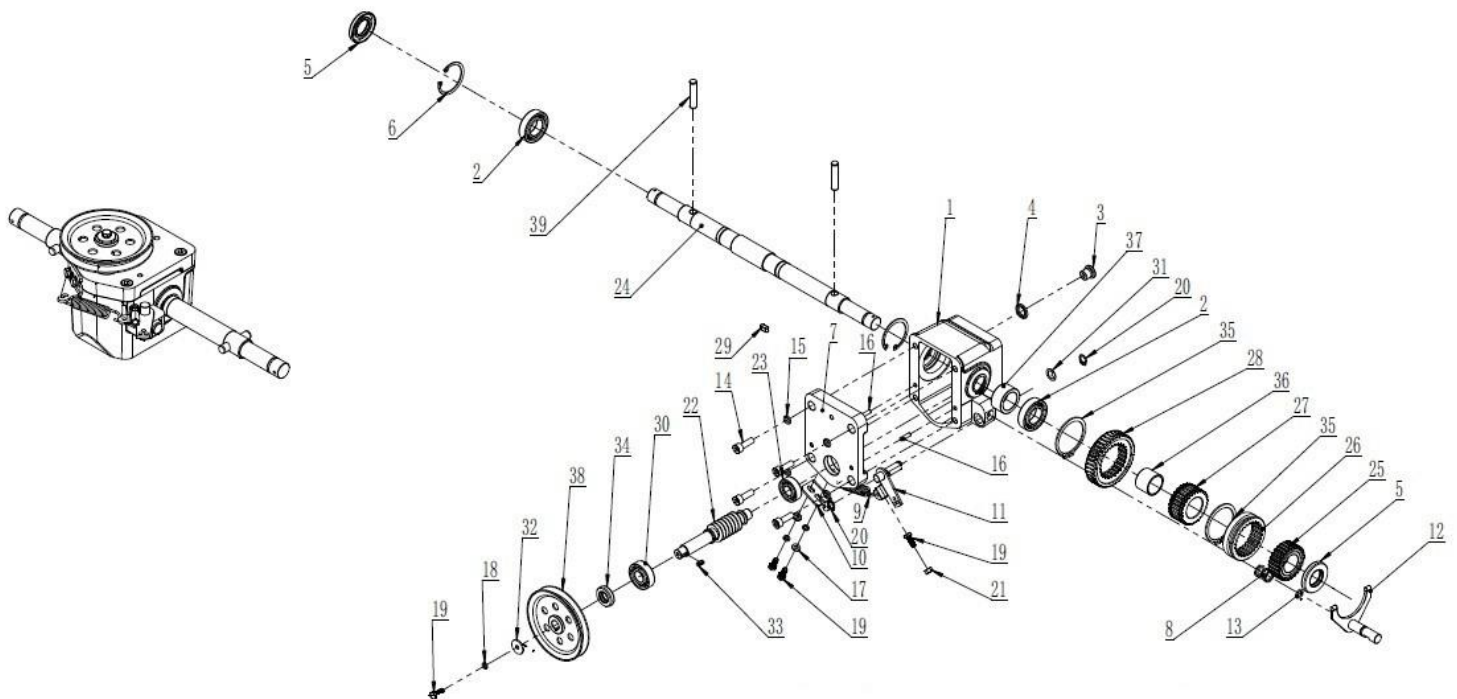
COMPONENTS OF THE MACHINE



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