



VS-80C



Art. No.: VS80C

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D

original operating instructions

vibratory rammer VS-80C

Model: VS-80C

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.

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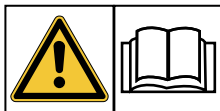
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1st PREFACE



DANGER!

Read and follow the safety instructions and warnings before use.

Use this manual to familiarize yourself with the machine, its correct use and the safety instructions. Keep this manual in a safe place so that you can refer to this information at any time.

If you hand the machine over to other people, please also hand over the complete manual.

limitation of liability

We have endeavoured to provide as comprehensive information as possible on accident prevention during operation, but cannot be held responsible for any lack of completeness of the danger points listed and - sources should be held accountable.

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
- Operating the machine with defective safety devices or with improperly installed or non-functional safety and protective 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
- Unauthorized modification of the machine
- Inadequate monitoring of machine parts subject to wear
- Improperly performed repairs
- Disasters caused by foreign bodies and force majeure

name machine

The term "machine" replaces the commercial name of the object to which this operating manual - see cover page - refers.

copyright protection

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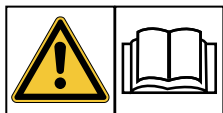
reservations

Information on technical data, dimensions and illustrations of the machine as well as changes to safety standards are subject to further development and are therefore not binding for delivery in every case.

Subject to printing and typesetting errors.

2nd INFORMATION ON THE OPERATING INSTRUCTIONS

This manual describes the functions, operation, maintenance and care of your new machine. Please read it carefully and follow the instructions exactly to ensure a long service life for your machine and safe operation for you. Observe the safety instructions and instructions provided as well as the local accident prevention regulations and general safety regulations applicable to the area of use.



Before starting any work on or with the machine, read the operating instructions, especially the Safety chapter and the relevant safety instructions. You must fully understand and follow what you have read. These are basic instructions and suggestions for accident prevention. Errors during operation, inspection and maintenance can result in injury or death.

INTENDED USE

3. INTENDED USE

The vibratory rammer is a motor-driven machine and is designed for compacting cohesive, mixed and granular soils in confined spaces.

The machine may only be used outdoors.

Any other use is improper. Improper use, modifications to the machine or the use of parts that have not been tested and approved by the manufacturer can result in unforeseeable damage!

However, the machine is not suitable for compacting soils with a high clay content.

■ The machine must not be used in rain, on ice or on very hard, stony ground. **CAUTION! Risk of injury.**

■ The machine must not be used for permanent commercial purposes.

■ The safety devices must not be dismantled or bypassed.

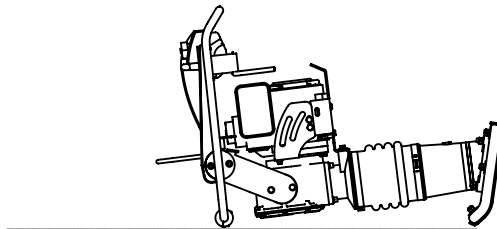
Observing the operating and maintenance instructions and carrying out maintenance work as well as adhering to the maintenance intervals are part of the intended use.

DANGER!

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.

We recommend the machine if possible always transported in an upright position , taking care to ensure that the machine does not fall over.

If the machine has to be laid lengthways on the ground, lay it down as shown below. The air filter must NEVER face downwards! Otherwise oil can get into the cylinder, combustion chamber or air filter, which will cause starting problems.



4th TECHNICAL DESCRIPTION

The machine consists of a 4-stroke OHV petrol engine, a clutch, a fuel tank, a spring-loaded tamping system, a tamping insert and a handle.

The engine transmits power through the tamping system and tamping insert and generates the impact force to compact the soil. The operator guides and controls the machine from behind using the handle.

For easier transport, the machine can be pushed onto or into a means of transport using the travel device.

5th OPERATING HOURS RESTRICTION

In residential and small settlement areas or on the premises of hospitals and care facilities, vibratory rammers may not be operated 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.

6th ENVIRONMENT



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 of use must be protected against contamination by leaking operating materials. Used or remaining operating materials must be recycled in accordance with the environmental protection regulations applicable at the site of use.

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

SAFETY INSTRUCTIONS

7th SAFETY INSTRUCTIONS

When using the machine, the following basic safety measures must be observed to protect against the risk of injury, fire and property damage.

Read all of these instructions before using this appliance and keep them for future reference.

Inadequately informed operators can endanger themselves and others through improper use.

The information concerning your personal safety is highlighted by a warning triangle; information concerning property damage alone is provided without a warning triangle.

⚠ 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.

In addition, the operating instructions contain other important text passages marked with the word **DANGER** are marked.

7.1 General safety instructions

To ensure safe handling, the operator must read this manual to familiarize himself with the handling of the machine. Insufficiently informed operators can endanger themselves and others 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.

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 at the same time.

SAFETY INSTRUCTIONS

The relevant accident prevention regulations as well as other generally accepted safety, occupational health and road traffic regulations must be observed.

⚠ WARNING

Children and young people under the age of 18 are not allowed 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.

Never use the machine for applications for which it is not intended.

Do not operate the machine with unauthorized accessories or additional parts.

Never leave the machine running unattended.

Working with the machine requires a high level of attention.

- Pay attention to the environmental conditions at the workplace.
 - Obstacles in the work and traffic areas.
 - Load-bearing capacity of the soil.
 - Necessary securing of the construction site, especially in relation to public transport areas.
 - Necessary securing of walls and ceilings.
 - Options for assistance in the event of accidents.
- Ensure that there is sufficient lighting in the working area and the area surrounding the machine.
- Ensure you have a secure footing in bad weather, on uneven terrain or on slopes.

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.

The operator is responsible to third parties.

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

Always ensure that the machine is stable and cannot tip, roll, slip or fall during operation.

Keep hands, feet and loose clothing away from moving or rotating machine parts.

⚠ WARNING

Risk of serious injury from being pulled in or crushed!

Take breaks from work in good time.

⚠ WARNING

If people with circulatory disorders are exposed to vibrations too often, damage to blood vessels or the nervous system can occur. The following symptoms

SAFETY INSTRUCTIONS

may occur due to vibrations in the fingers, hands or wrists: numbness of the body parts, tickling, pain, stinging, change in skin color or skin. If these symptoms are noticed, consult a doctor.

However, suitable gloves and regular breaks can extend the duration of use. However, please note that personal predisposition to poor circulation and/or high gripping forces when working will reduce the duration of use.

Keep other people, especially children, away from the work area. Make sure that all other people maintain a safe distance of at least 5 m from the machine.

⚠ WARNING

Risk of injury from moving machinery or thrown materials.

Do not operate the machine in damp or wet conditions or expose it to rain.

Do not use the machine in easily flammable vegetation or where there is a risk of fire or explosion. If it is dry, have a fire extinguisher ready (risk of fire!).

Do not touch the engine or muffler while the engine is running or immediately after it has been turned off. These areas become hot and can cause burns.

Stop the engine and close the fuel tap (if equipped) when the machine is not in use.

Park the machine so that it cannot tip over, fall or slip.

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

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.

When working with the machine, pay particular attention to the following points:

- Electrical cables or pipes in the work area.
- Gas, water or communication lines in the work area.

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

7.2 Personal protective equipment

To avoid injuries to the head, eyes, hands, feet and hearing while working, personal protective equipment (PPE) must be worn.

Clothing should be practical, i.e. tight-fitting, but not restrictive.

Do not wear loose clothing (scarf, tie, etc.) or body jewelry. Long hair must not be worn loose (wear a hair net).

To avoid eye injuries always **safety glasses** carry.

To avoid hearing damage, suitable personal **soundproofing agents** such as hearing protection, ear muffs, etc.



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

work gloves made of sturdy leather are part of the statutory equipment and must be worn at all times when working with the machine.

In workplaces where objects can fall, it is essential to have a **protective helmet** to wear.

When working with the machine, **safety boots or shoes** with a non-slip sole and steel cap. The safety footwear ensures a secure footing.

When carrying out work that generates dust, a respiratory mask must be worn.

7.3 Safe handling of operating materials / refueling

DANGER

Combustion engines pose a particular danger during operation and when refueling. Always observe the warnings and the additional safety instructions provided in this manual. Failure to observe these instructions may result in serious or even fatal injuries.

Do not refuel, start or run the engine indoors, in a garage or in a closed space. The engine's exhaust fumes contain poisonous carbon monoxide. Being in an environment containing carbon monoxide can lead to unconsciousness and death.

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

Smoking and any open fire are not permitted.

SAFETY INSTRUCTIONS



Fuels may contain solvent-like substances. Avoid skin and eye contact with mineral oil 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 released.

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 fuel station). Fuel 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 operate a machine with a damaged ignition cable and spark plug cap. **Danger of sparking!**

Keep fuel and oil out of the reach of children.

7.4 Service Security

⚠ WARNING

Improper maintenance or failure to observe or rectify a 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.

Before carrying out any maintenance or repair work, switch off the machine, pull out the spark plug connector and unscrew the spark plug to prevent accidental starting.

The operational safety of the machine must be checked before starting work, especially the function of the throttle lever, start/stop switch and the tightness of the

SAFETY INSTRUCTIONS

fuel system. Do not operate the machine if damage or defects are visible. Have damage and defects repaired immediately.

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 on/off switches, throttle grips, etc. must not be improperly locked, manipulated or modified. **Never tilt the machine for cleaning!**

Check the tank cap regularly for leaks.

The stickers on the machine warn of dangers. Always keep the machine clean and replace damaged stickers if necessary.

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.

Do not stack paper, cardboard or similar materials near the motor housing. The hot housing could cause a fire.



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

The machine must be operated with minimal noise and emissions. You must not change the preset engine speed as this may cause engine damage.

Check the machine for possible damage:

- Before using the machine, the safety devices must be carefully checked to ensure that they are functioning properly and correctly. The machine may only be operated with the safety devices complete and correctly installed. Under no circumstances should you make any structural changes to the machine! This will endanger your safety!
- Moving parts must not be damaged, must function properly and must not jam. All parts must be correctly assembled and meet all conditions to ensure proper operation.

Always check that all tools are removed before switching on.

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.

Only use original 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.

SAFETY INSTRUCTIONS

Do not run the machine without an air filter.

Clean the engine cooling fins of any dirt.

7.5 Behavior in an emergency

If an accident occurs, initiate the necessary first aid measures and request qualified medical assistance as quickly as possible.

When requesting assistance, please provide the following information:

- *where it happened*
- *what happened*
- *how many injured*
- *what type of injury*
- *who reports!*

7.6 Residual hazards and protective measures

Mechanical residual hazards **Squeeze**

Careless operation of the machine can result in serious injuries.

→ Be particularly careful on uneven terrain and when compacting coarse material. Make sure you have a secure footing.

impact

On compacted, hard or unyielding surfaces, the handles may recoil strongly.

→ Avoid working on compacted, hard or unyielding ground with the machine. Hold the operating handles firmly and wear protective clothing.

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 be fully concentrated 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 spark plug while the engine is running.

*Thermal residual hazards***burns, chilblains**

Touching the exhaust/housing may cause burns.

→ Allow the motor device to cool down.

*danger from noise***hearing loss**

Prolonged unprotected work with the machine can lead to hearing damage.

→ Always wear hearing protection.

*Hazards from materials and other substances***contact, inhalation**

The exhaust fumes from the machine can cause health damage.

→ Only use the power tool outdoors and take regular breaks. **fire,**

explosion

The fuel in the machine is flammable.

→ Smoking and open fires are prohibited during work and refueling.

*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 surfaces, you may cause injury by tripping.

→ Be aware of obstacles in the work area. Always ensure you have a secure footing and wear safety shoes.

SYMBOLS USED

8th SYMBOLS USED



Danger of carbon monoxide poisoning! Do not start or run the engine in enclosed spaces, even if the doors and windows are open.



Petrol and oil are extremely flammable and explosive. Before refueling, turn off the engine and let it cool down. Keep the engine away from heat, sparks and flames. Do not smoke near the machine!



CAUTION! Use only clean fuel.



Warning! Special care and attention. The machine can cause serious injuries!



Read and follow the operating instructions and safety instructions before commissioning. Otherwise, the risk of injury to the operator and other persons increases.



Wear eye and hearing protection. Helmets are mandatory to protect against flying debris.



Wear protective gloves.



Wear safety shoes with a non-slip sole and steel toe cap.



It is forbidden to remove or modify protective and safety devices.



hot Surface! contact can to burns lead.
Only carry out maintenance, servicing and cleaning work when the engine has cooled down.



Hold the handle as shown for optimal control and performance with minimal hand/arm vibration.



Springs under tension! Remove cover slowly to avoid sudden release. Kickback of the tensioned spring or cover can cause serious injury.

SYMBOLS USED / SCOPE OF DELIVERY / CONTROLS



CAUTION! Lifting point/tying point



Guaranteed sound power level in dB(A)

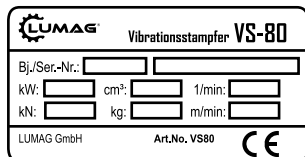


NOTE! The machine does not contain any engine oil when delivered.



THROTTLE LEVER

Symbol "turtle" means SLOW or IDLE Symbol "rabbit" means FULL THROTTLE or FAST



NAMEPLATE

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

9th SCOPE OF DELIVERY

After unpacking, check the contents of the box/transport box for completeness and possible transport damage. Report any complaints to the dealer or manufacturer immediately. Complaints made later will not be accepted.

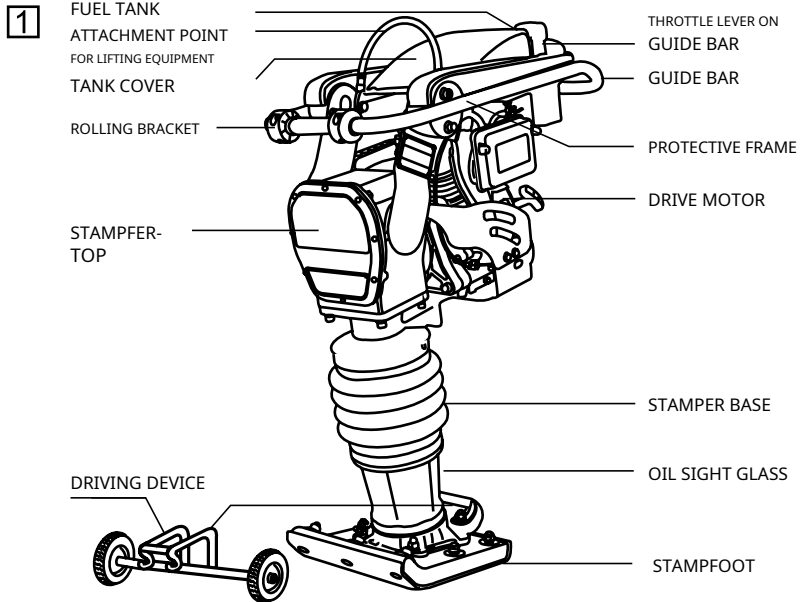
Contents:

Vibration rammer with gasoline engine drive device

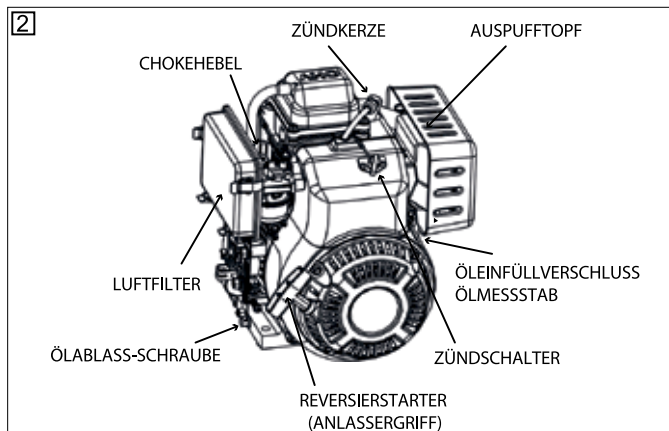
PART NAME

10. PART NAME

vibratory rammer (Fig. 1)



gasoline engine (Fig. 2)



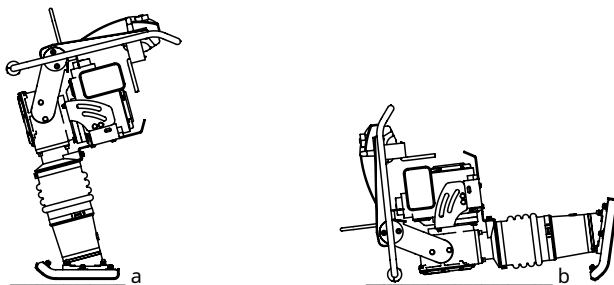
11. TRANSPORT

⚠ WARNING

Before transporting the machine or storing it indoors, allow the engine to cool down to avoid burns and the risk of fire. If the machine is moved, even for a short distance, during work, the engine must be switched off. It must also be ensured that people are not endangered by the machine tipping over or slipping or by machine parts flying up or down.

DANGER!

The vibratory rammer, if possible, always transport in an upright position (a). However, care must be taken to ensure that the machine does not fall over. If this is not possible, lay the machine down as shown in figure (b) below and tie it down securely to the bed of the vehicle to prevent it from rolling or shifting.



- Always switch off the engine during transport!
- Close the fuel tap and **Transport the machine in an upright position** to avoid fuel or oil leakage.
- When transporting over long distances, the fuel tank must be completely emptied.
- Use the lifting point when lifting.
- Attach suitable hooks to the anchor point and pull up carefully to avoid injury.
- Secure the machine on the transport vehicle against rolling, slipping or tipping over and additionally lash it to the protective frame.

A NOTICE

Before lifting, make sure that the lifting device is capable of safely supporting the weight of the machine (see "Technical data").

To load and transport compaction machines with lifting devices, suitable lifting gear must be attached to the designated attachment points. Loading ramps must be load-bearing and stable.

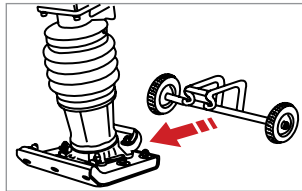
DANGER!

After transporting the machine in a horizontal position, it must be uprighted to allow the oil to flow back to the engine. This process may take up to 5 minutes until the oil level is restored to normal.

11.1. Driving device

The driving device facilitates handling via short distances .

1. Stop the machine.
2. Tilt the machine slightly forward and hook the axle with the wheels under the bracket.
3. Secure the axle with your foot, tilt the machine backwards onto the axle and move it using the hand guide.
4. When setting down, proceed in reverse order (secure the axle with your foot, carefully put the machine down and remove the axle with wheels)



DANGER!

The machine is heavy and must not be lifted by one person. Make sure you have someone to help you. Only use the drive mechanism on level, solid ground and for short distances. The drive mechanism must be removed before the next tamping operation.

11.2 Storage

When storing for a longer period of time, empty the fuel tank and run the carburetor dry.

- Remove the spark plug.
- Pour approximately 20 ml of clean engine oil into the cylinder through the spark plug hole.
- Pull out the starter rope slowly so that the oil is distributed throughout the engine.
- Screw the spark plug back in.
- Thoroughly remove dirt, deposits and dust from the engine and machine.
- Clean the air filter or replace it if it is very dirty or damaged.
- Clean cylinder head fins.
- Store the machine safely in a dry room, out of reach of children. The machine must not be stored outdoors.
- Cover the machine to protect it from dust and store it in a dry, clean place.

DANGER!

Store the machine in an upright position and secure it against tipping over. If this is not possible, lay the machine down as shown on page 18. Failure to observe this precaution may result in engine oil getting into the cylinder, combustion chamber or air filter, causing starting difficulties.

12. COMMISSIONING

DANGER!

Read the safety instructions carefully (see “**safety instructions**”).

12.1 Recommended fuel

This engine requires only regular unleaded gasoline with a research octane rating of 95. Use only fresh, clean fuel. Water or impurities in the gasoline will damage the fuel system.

tank volume approx. 2.7 liters



fuel



fuel tank

⚠ DANGER

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 inside a building where gasoline vapors can reach flames or sparks.

ATTENTION! Be sure to read the safety instructions.

⚠ WARNING

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

- Turn off the engine and keep away from heat, sparks and flames.
- Only refuel outdoors.
- Wipe up any spilled gasoline immediately.

12.2 Lubrication of the engine

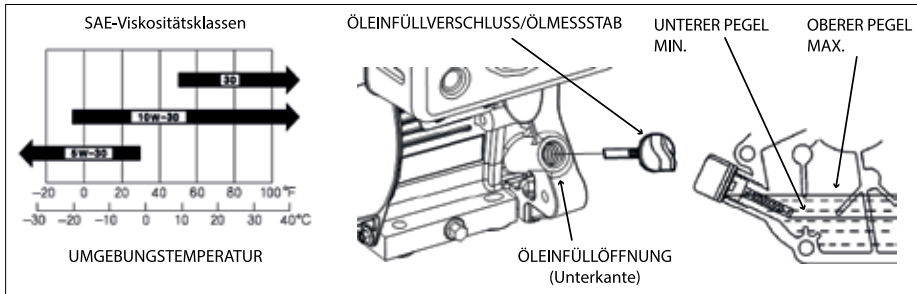
A NOTICE

The engine oil must be topped up before the first use! Incorrect oil filling can lead to irreparable damage to the engine. In this case, the seller and manufacturer will not provide any warranty.

Recommended engine oil SAE 10W-30 or 10W-40 Filling
quantity approx. 0.6 liters

COMMISSIONING

- Use commercially available engine oil with the specification 10W-30 or 10W-40.
- Remove the oil filler cap screw on the engine.
- Fill in engine oil until it is visible in the thread of the filler opening (= lower edge of the oil filler opening). Filling quantity approx. 0.5 liters. Do not overfill!

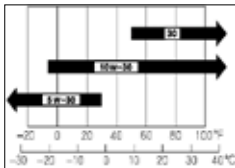


12.3 Lubrication of the tamping system

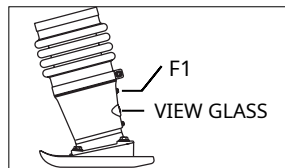
Recommended lubricating oil SAE 10W-30

Filling quantity approx. 0.8 liters

- Place the machine on a flat surface.
- Remove dirt from the sight glass and the area around the oil filler screw (F1).
- Check oil level through sight glass. Ramming system lubrication is OK when the oil sight glass shows approximately 1/2 - 3/4 full.
- If no oil is visible, oil must be added. Tilt the machine forward until it rests on the roll bar.
- Remove the oil filler screw (F1) on the lower part of the rammer.
- If necessary, top up with SAE 10W-30 oil. Use a funnel.
- Replace the screw and tighten it.
- Place the machine in an upright position.



type of oil



sight glass / oil filler plug

12.4 Before commissioning

Place the machine upright on a firm, level surface to ensure proper lubrication of the engine.

Before starting, check:

- the engine oil level
- lubrication of the tamping system
- the fuel level – the tank should be at least half full
- the air filter condition
- the condition of the fuel lines
- the external screw connections are tight
- the location - machine **NEVER** on asphalt or concrete

DANGER!

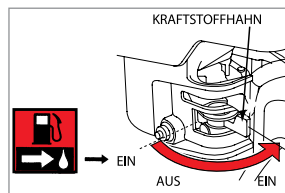
Read the safety instructions carefully (see “**safety instructions**”).

Avoid locations with depressions or holes (such as puddles). There is a risk of slipping on smooth, slippery surfaces!

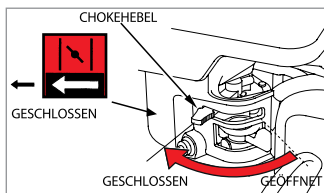
12.5 Starting the engine

→ cold start

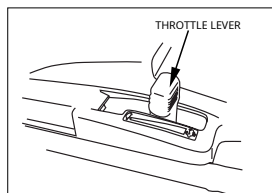
1. Open the fuel tap and turn it to ON.
2. Set the choke lever to CLOSE.
3. Open the throttle lever on the handlebar slightly.
4. Turn the ignition switch to ON.
5. Pull the recoil starter gently until you feel resistance and let it roll in again. Pull the starter rope out firmly, but not jerkily. The engine starts.
6. Move the throttle lever to idle, towards the “turtle/MIN” symbol.
7. Open the choke while the engine is warming up.
8. To operate, slowly and carefully push the throttle lever towards the “Rabbit/MAX” symbol - the machine starts working.



1 Open the fuel tap

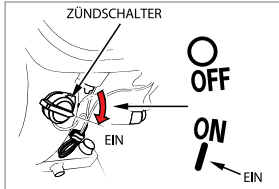


2 CLOSE choke lever

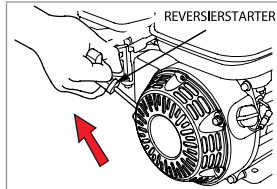


3 Open the throttle slightly

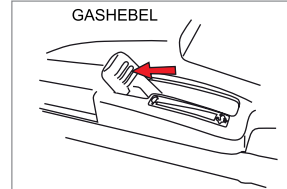
COMMISSIONING



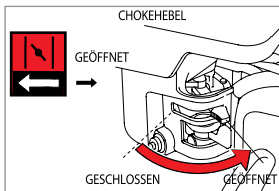
4 Ignition switch ON



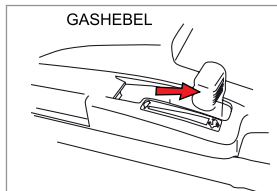
5 Pull the starter rope



6 Throttle lever MIN./idle



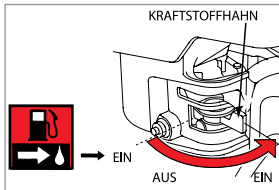
7 OPEN choke lever



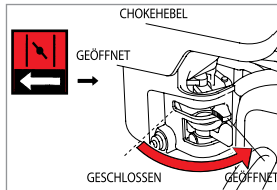
8 Throttle MAX.

→ Warm start

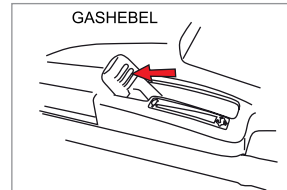
1. Open the fuel tap and turn ON.
2. Move the choke lever to the right to OPEN.
3. Push the throttle lever on the handlebar to idle, in the direction of "turtle/MIN."
4. Turn the ignition switch to ON.
5. Pull the recoil starter gently until you feel resistance and let it roll in again. Pull the starter rope out firmly, but not jerkily. The engine starts.
6. To operate, push the throttle lever slowly and carefully to the left, towards the "Rabbit/MAX" symbol - the machine starts working.



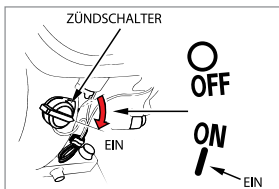
1 Open the fuel tap



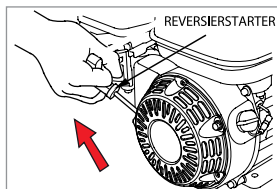
2 OPEN choke lever



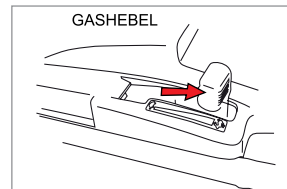
3 Throttle lever MIN./idle



4 Ignition switch ON



5 Pull the starter rope



6 Throttle lever MAX.

DANGER!

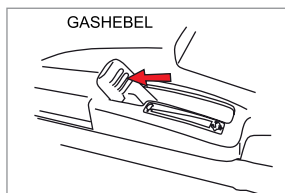
Only open the choke when the throttle is in idle position, otherwise the machine may start moving. NEVER accelerate the machine from the rest position to full throttle.

A NOTICE

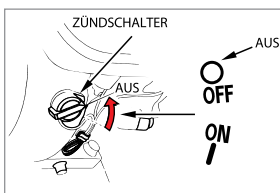
When using the engine for the first time or on engines that have not been used for a long time, the starter rope may need to be pulled several times to get fuel to the carburetor.

12.6 Turning off the engine

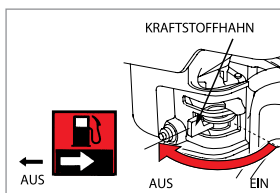
1. Move the throttle to idle position and let the engine run for 30 seconds.
2. Turn the ignition switch to OFF.
3. Close the fuel tap and turn it to OFF.



1 throttle lever MIN./idle



2 Ignition switch OFF



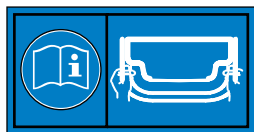
3 Close the fuel tap

A NOTICE

Stopping the engine suddenly at full throttle can cause engine damage.

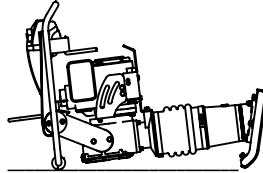
12.7 Proper operation

- Keep the machine clean and dry.
- Avoid blank shots.
- When pushing the material away or lifting the machine, never run it at full throttle.
- For optimal control, hold the handle as shown.



COMMISSIONING

- If the machine tips over on its side, lay it down as shown and immediately switch off the engine (turn the ignition switch (9) to "OFF").

**A NOTICE**

Switch the machine off even for short breaks in work. (See section 'Switching off the engine'). To avoid engine damage, the machine must not continue to run when it is lying on its side.

⚠ CAUTION

When working on inclines or declines, always walk on the uphill side. The operator must never stand in the direction of fall.

→ **Recommendation for compaction**

- Open the throttle fully to achieve maximum power.
- Guide the machine with both hands on the handle. Never let go of the guide handle when compacting.
- Allow the machine to move forward on its own. Do not apply pressure to the machine. Do not attempt to move the machine forward using muscle power.
- The tamping foot must always be parallel to the ground (d) to avoid extreme wear of the plate.



- Soil that is too moist can prevent good compaction. Allow the soil to dry out a little before compacting.
- Very dry soil will raise a lot of dust when the machine is working. Adding moisture can improve compaction and reduce air filter maintenance.

A NOTICE

Do not use the machine on concrete or hard or tightly compacted ground surfaces. In such cases, the machine will begin to thump instead of vibrate, causing damage to the tamping foot and the motor.

13. MAINTENANCE

Maintain the machine regularly. Only carry out maintenance work and repairs that are described in the operating instructions. Have all other work carried out by an authorized specialist workshop.

⚠ DANGER

During all work on the machine



- Turn off the engine
- Wait for the machine to stop
- Disconnect the spark plug connector and unscrew the spark plug
- Wear gloves to avoid injuries
- Do not touch the hot muffler – risk of burns!
- Do not carry out maintenance work near open flames–Fire hazard!

13.1 Maintenance plan

Please adhere to the maintenance schedule! For further information, please refer to the supplied engine manual.

Task		Daily before Operation	Every week or all 25 BTS*	All 2 weeks or 50 BTS*	Every month or every 100 BTS*	Each year or all 300 BTS*
Check fuel tank: - fill level - tightness - lines - tank cap		X				
air filter element	check/clean replace if necessary	X				
	exchange				X	
Check that the fastening screws are tight - protective frame - throttle control lever		X				
Check external fastening parts		X				
Tighten the fastening screws on the tamping foot		X				
engine oil	check	X				
	change			X (1)	X	
Clean the engine cooling fins			X			
cleaning the heel cup					X	

MAINTENANCE

Task		Daily before Operation	Every week or all 25 BTS*	All 2 weeks or 50 BTS*	Every month or every 100 BTS*	Each year or all 300 BTS*
spark plug	check/clean		X			
	exchange				X	
Oil in tamping system	check	X				
	change			X (2)		X
fuel filter	check/clean					X

* Operating hours

(1) Change engine oil after the first 50 hours of operation.

(2) Change the ramming system oil after the first 50 hours of operation.

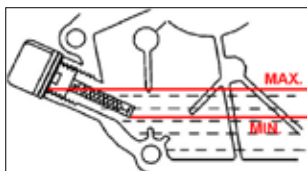
A NOTICE

If you return a machine for repair, please note that for safety reasons it must be sent to the service center free of oil and petrol.

13.2 Engine oil**oil level check**

Check the engine oil level with the engine stopped and level.

1. Remove the oil filler cap screw with dipstick and wipe clean.
2. Reinsert the dipstick into the oil filler neck without screwing it in, then remove it to check the oil level.
3. If the oil level is close to or below the lower mark L on the dipstick, then fill with the recommended oil (see Technical Data) up to the upper mark H (= lower edge of the oil filler opening). Do not overfill!
4. Insert the oil filler cap/dipstick and tighten it tightly.



Check oil level

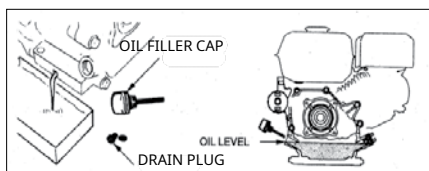
A NOTICE

A low oil level can cause engine damage. The manufacturer is not liable for any resulting damage; the risk is borne solely by the user.

change engine oil

Change the engine oil after the first 50 hours of operation, then every 100 hours or every month. Allow the engine oil to drain when the engine is warm.

1. Let the engine warm up.
2. Switch off the engine.
3. Remove dirt from the area around the oil filler cap and the oil drain plug.
4. Place a sufficiently large container under the oil drain plug to collect the used oil.
5. To drain the engine oil, remove the oil filler cap and oil drain plug.
6. Reinstall the drain plug with sealing ring and tighten.
7. With the engine in a horizontal position, fill with recommended engine oil up to the upper limit mark H (= lower edge of the oil filler opening) on the dipstick. For the oil quantity and type, see "Technical Data".
8. Screw the oil filler cap with the dipstick back in.



change engine oil

Recommended engine oil SAE 10W-30 or 10W-40 Filling quantity approx. 0.6 liters

ATTENTION! Environmental damage.



Operating materials and parts contaminated with operating materials must not be allowed into the drinking water supply. Dispose of the operating materials as hazardous waste, even if only small quantities are involved.

13.3 Air filter

Cleaning the air filter frequently prevents carburetor malfunctions. Clean the air filter approximately every 10 - 20 hours of operation. More often in particularly dusty conditions.

HINWEIS

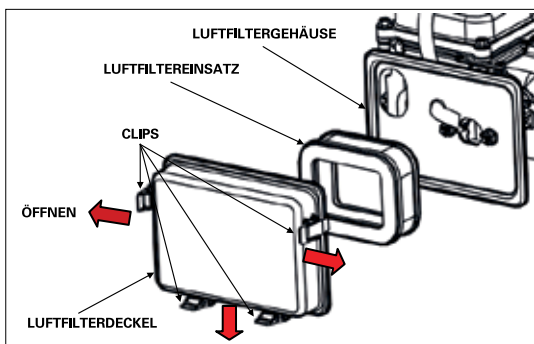
If the engine is operated without or with a damaged air filter element, dirt will enter the engine, causing rapid engine wear. In this case, the seller and manufacturer will not provide any warranty.

Clean the air filter and change the air filter element

1. Unclip the air cleaner cover clips, remove the air cleaner cover, and remove the air cleaner element. Inspect the cover for holes or cracks. Replace any damaged cover.
2. Check the air filter element and replace the old filter with a new one if it is damaged. The air filter element must always be replaced at the scheduled intervals (see maintenance schedule).
3. If reusing, clean the air filter element. Tap the filter element several times on a hard surface to remove dirt, or blow compressed air (not exceeding 207 kPa) through the inside of the filter element. Never try to brush off dirt as this will force it into the fibers.

DANGER! Do not blow or blow out dirt particles, there is a risk **Danger of eye injuries!**

4. Wipe off dirt from the inside of the air filter housing and cover with a damp cloth. Be careful not to let dirt get into the air duct leading to the carburetor.
5. Reinstall the air filter element.
6. Then put the air filter cover on and press the retaining clips closed.



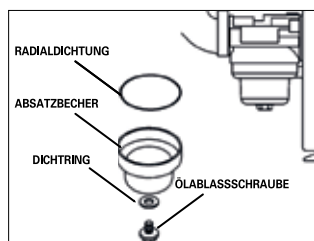
Clean the air filter

⚠ WARNING

NEVER use gasoline or low flash point cleaning solvents to clean the air cleaner element. A fire or explosion could result.

13.4 Cleaning the settling cup

- Close the fuel tap and turn it to OFF.
- Unscrew the separation cup and radial sealing ring and clean thoroughly in non-flammable solvent and allow to dry.
- Screw both parts back on.
- Open the fuel tap, turn it to ON and check for leaks. Replace the radial seal if leaks are present.



cleaning the heel cup

13.5 Spark plug

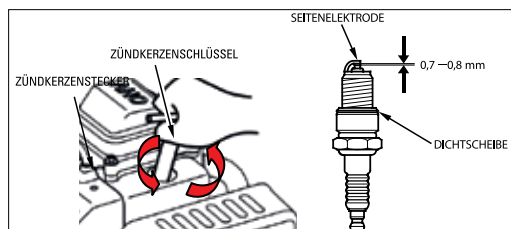
⚠ WARNING

The exhaust becomes very hot during operation and remains hot for some time after the engine is turned off. NEVER touch the hot engine.

Clean or replace spark plug as required. See maintenance schedule.

Check, clean and replace spark plug

- Disconnect the spark plug connector and remove any dirt in the spark plug area.
- Unscrew and check the spark plug.
- Check the insulator. If there is any damage such as cracks or splinters, replace the spark plug.
- Clean spark plug electrodes with a wire brush.
- Check and adjust electrode gap, 0.7-0.8 mm (for gap see "Technical data").
- Screw in the spark plug and tighten it with the spark plug wrench.
- Place the spark plug connector onto the spark plug.



Check spark plug

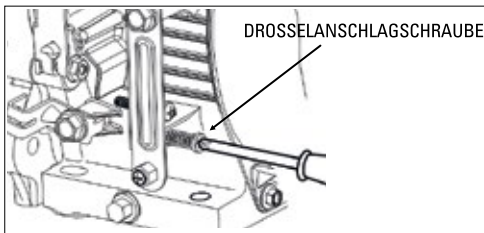
A NOTICE

A loose spark plug can overheat and damage the engine. And over-tightening the spark plug can damage the threads in the cylinder head.

13.6 Adjusting the engine speed**A NOTICE**

Operating the machine at a higher speed than recommended in the "Technical Data" can cause damage to the machine and engine.

- Start the engine outdoors and allow it to warm up until it reaches operating temperature.
- Set the throttle lever to idle position.
- Screw in the throttle stop screw to increase the speed.
- Unscrew the throttle stop screw to reduce the speed.
- The idle speed should be set so that the rammer stops.

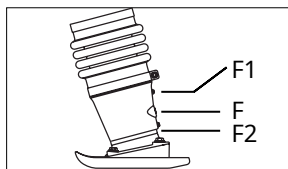


Adjust engine speed

13.7 Lubrication of the tamping system**Check oil level:**

Check the oil level before each use.

- Place the vibratory rammer on a flat surface.
- Remove dirt from the sight glass (F) and in the area of the oil filler screw (F1).
- Check oil level through sight glass (F). Ramming system lubrication is OK when the oil sight glass shows approximately 1/2 - 3/4 full.
- If no oil is visible, oil must be added. Tilt the vibratory rammer forward until the machine rests on the roll bar (I).
- Remove the oil filler screw (F1) on the lower part of the rammer.
- If necessary, top up with SAE 10W-30 oil. Use a funnel.
- Replace the screw and tighten it.
- Place the machine in an upright position.



sight glass / oil filler plug

Change oil:

Change the oil in the ramming system after the first 50 hours of operation, then every 300 hours of operation or every 6 months. Drain the oil and replace it with approximately 0.8 liters of clean SAE 10W-30 oil.

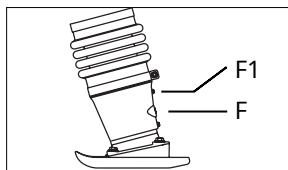
- Loosen the oil drain plug (F2), but do not remove it.
- Tilt the vibratory rammer backwards until it rests on the guide bar.
- Place plastic film and a suitable container under the device.
- Remove the oil drain screw (F2) on the lower part of the rammer and allow the oil to drain into the container.
- Replace the screw and tighten it.

ATTENTION! Environmental damage.



To protect the environment, place a plastic sheet and a container under the machine to catch the oil that drains off. Operating materials and parts contaminated with operating materials must not be allowed to enter the drinking water supply. Dispose of operating materials as hazardous waste, even if only small quantities are involved.

- Bring the vibratory rammer back into the upright position and then tilt it forward until the device rests on the roll bar (I).
- Remove the oil filler screw (F1) on the lower part of the rammer.
- Top up the oil using a funnel. The amount and type of oil are specified in the section '*Technical data*' to be taken.
- Replace screw (F1) and tighten.
- Place the device in an upright position.
- Check the oil level at the sight glass (F).



sight glass / oil filler plug

A NOTICE

*DO NOT overfill. Too much oil can reduce performance and damage the ramming system.
ALWAYS make sure the machine is not operated for 10 minutes after changing the oil or refilling.*

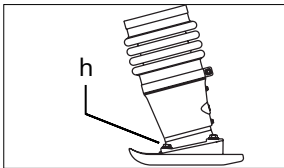
13.8 stamping foot

On a new machine, before each start-up or after replacing a new tamping foot, all fastening nuts must be checked and tightened.

13.9 Changing the tamping foot

On a new machine or after replacing a tamping foot, check and tighten the fastening nuts (h) after the first 5 hours of operation. Check weekly thereafter.

1. Take the machine out of operation. (See section 'Turn off the engine')
2. Unscrew the four fastening nuts (h).
3. Lift the rammer off the tamping foot and install a new tamping foot.



changing the stamping foot

13.10 Cleaning

After each use, dirt and stones that have accumulated on the machine and the engine console must be removed. To prevent the engine from overheating, the cylinder cooling fins must be kept clean in dusty areas.

14. TROUBLESHOOTING

⚠ DANGER

During all work on the machine



- Turn off the engine
- Wait for the machine to stop
- Disconnect the spark plug connector and unscrew the spark plug
- Wear gloves to avoid injuries

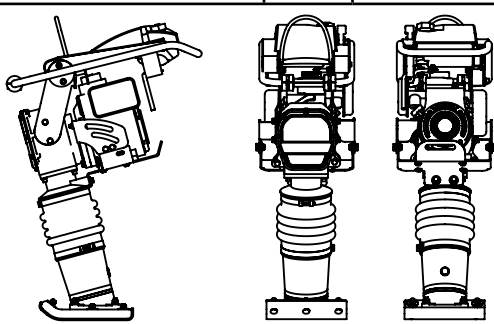
ATTENTION! After rectifying any fault, restart and check all safety devices.

Disturbance	Caused	remedy
Unclean compaction pattern	worn-out tamping foot	changing the stamping foot
oil loss from the engine	Worn seals, radial sealing rings	Contact your dealer
Engine runs but the rammer runs irregularly	Ground surface is too hard	Compaction of the soil surface is not possible
	Soil is too wet, the stamping foot gets stuck	allow drying time
	Thick layer of dirt on the pad foot	cleaning the tamping foot
	Broken parts in the tamping system	Contact your dealer
	Broken or bad spring	
	Engine speed is set too high	
	clutch surface dirty	Clean the clutch surface of oil and grease
Engine cannot be started	No fuel in the tank	refueling
	fuel tap closed	Open the fuel tap
	air filter dirty	Clean the air filter
	Engine switch is OFF	Turn the engine switch to ON
	recoil starter defective	Repair or replace recoil starter
	No engine oil	refill engine oil
	Spark plug dirty	cleaning the spark plug
Motor is running, but the rammer does not move	centrifugal clutch defective	Replace clutch Contact your dealer
	Compression pressure low, exhaust opening clogged	Clean the exhaust opening
Engine gets too hot	Cooling fins and fan blades dirty	Clean cooling fins and fan blades

If these measures do not correct the fault or if faults occur that are not listed here, have the machine checked by a specialist.

TECHNICAL DATA

15. TECHNICAL DATA

Model		VS-80C
drive motor	type	LONCIN LC168F-2H 1-cylinder 4-stroke OHV petrol engine
starting system		recoil starter
displacement	cm ³	196
rated power	kW	4.1
engine speed	1/min	3600
fuel		Unleaded regular gasoline RON95
fuel tank capacity	l	2.7
engine oil	variety	SAE 10W-30 / SAE 10W-40
engine oil content	l	~ 0.60
lubrication of the tamping system	variety	SAE 10W-30
lubrication content of the tamping system	l	~ 0.8
spark plug		F7TC or other equivalent spark plug
electrode gap	mm	0.70 ± 0.80
tamping foot plate (L x W)	mm	360 x 285
dimensions (W x D x H)	mm	456 x 749 x 1112
impact	kN	12
jump height (lift)	mm	40 - 66
stroke rate	1/min	600 - 700
Weight	kg	78
Guaranteed sound power level LWA	dB(A)	108
		

16. WARRANTY / GUARANTEE / CUSTOMER SERVICE

WARRANTY

The statutory warranty period applies to the device. 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 device 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 or weather influences or due to 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 using 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 any devices back to us without a SERVICE NUMBER that you have received from our service department. If we receive devices 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, provided they have occurred despite proper operation and care of the device, are covered by

CUSTOMER SERVICE

to remedy the defect. We reserve the right to make two repairs if the same defect occurs. If the repair fails or is impossible, the device can be exchanged for an equivalent device. If the exchange is also unsuccessful or impossible, the device can be exchanged.

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, 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 time: Monday to Thursday from 7:30 a.m. to 12 p.m. and 1 p.m. to 5 p.m.
Friday from 7:30 a.m. to 12:30 p.m.
Phone: + 49 (0)8571 / 92 556-0
Fax: + 49 (0)8571 / 92 556-19
E-mail: info@lumag-maschinen.de

17th EC DECLARATION OF CONFORMITY

In accordance with the provisions of the EC directives

Machinery Directive 2006/42/EC

EMC Directive 2014/30/EU

Outdoor Directive 2000/14/EC

explains the company

LUMAG GmbH

Rudolf-Diesel-Str. 1a

D-84375 Kirchdorf/Inn

Telephone: +49 / (0)8571 / 92 556-0

Fax: +49 / (0)8571 / 92 556-19

that the product

Designation: Vibration rammer

Type designation: VS-80C

meets the essential protection requirements of the above-mentioned EC directives.

Conformity is based on the following standards:

EN 500-1:2006+A1

Mobile road construction machinery - Safety - Part 1: Common requirements

EN 500-4:2011

Mobile road construction machinery - Safety - Part 4: Particular requirements for compaction machines

EN 55012:2007+A1

Vehicles, boats and equipment powered by internal combustion engines - Radio interference characteristics - Limits and methods of measurement for the protection of external receivers

EN 61000-6-1:2007

Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments

EN ISO 3744:2010

Acoustics - Determination of sound power and sound energy levels of noise sources from sound pressure measurements - Envelope method of accuracy class 2 for an essentially free sound field over a reflecting plane

Person authorized to compile the technical documentation: Gabriele Denk

The declaration of conformity refers only to the machinery in the condition in which it was placed on the market; it does not take into account any parts and/or interventions subsequently fitted by the end user.

Kirchdorf, December 19, 2016

Christopher Weißenhorner, Managing Director

distributor, authorized representative

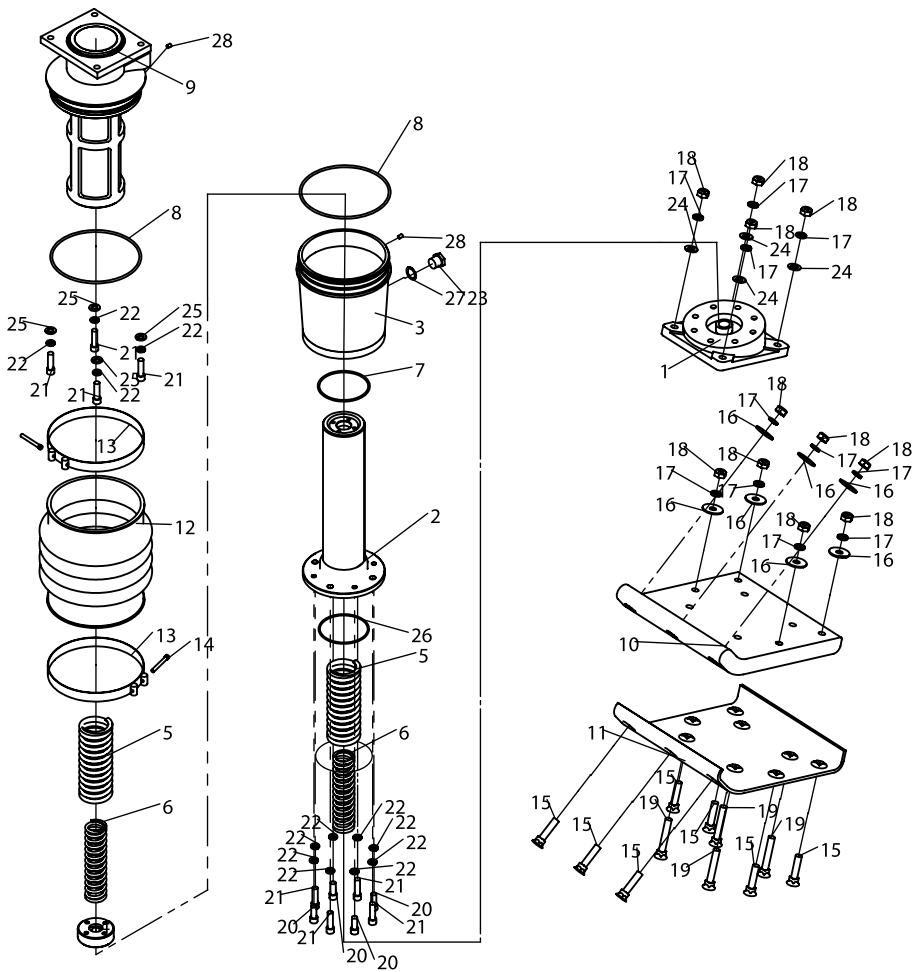
Place

Signature

COMPONENTS OF THE MACHINE

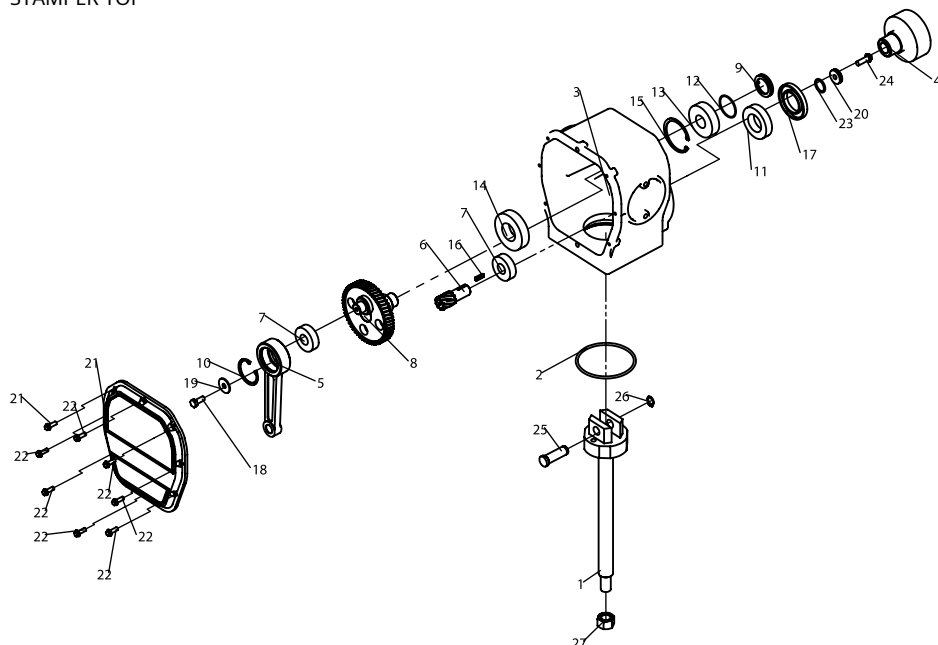
18. COMPONENTS OF THE MACHINE

STAMPING BASE

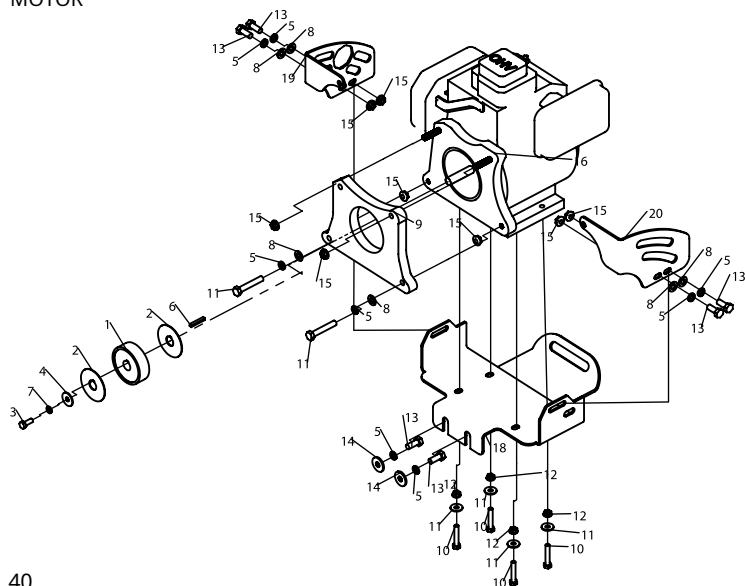


COMPONENTS OF THE MACHINE

STAMPER TOP

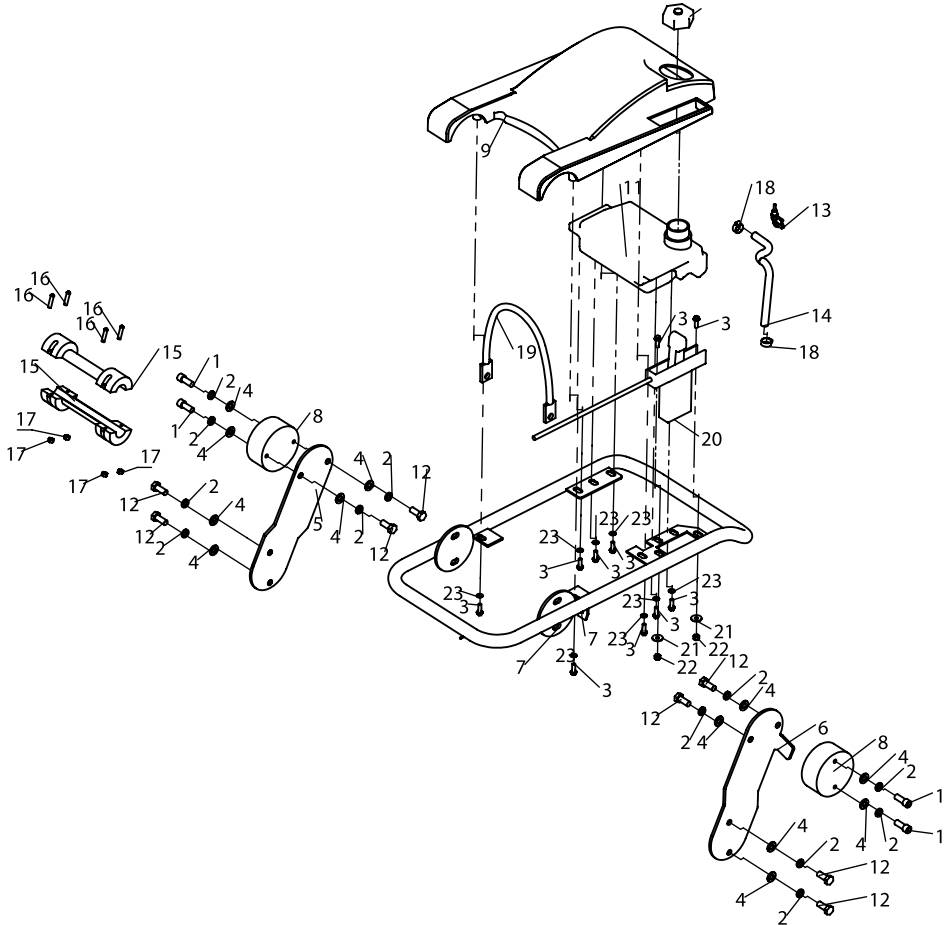


MOTOR



COMPONENTS OF THE MACHINE

PROTECTIVE FRAME, TANK and ENGINE COVER



NOTE



LUMAG GmbH

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