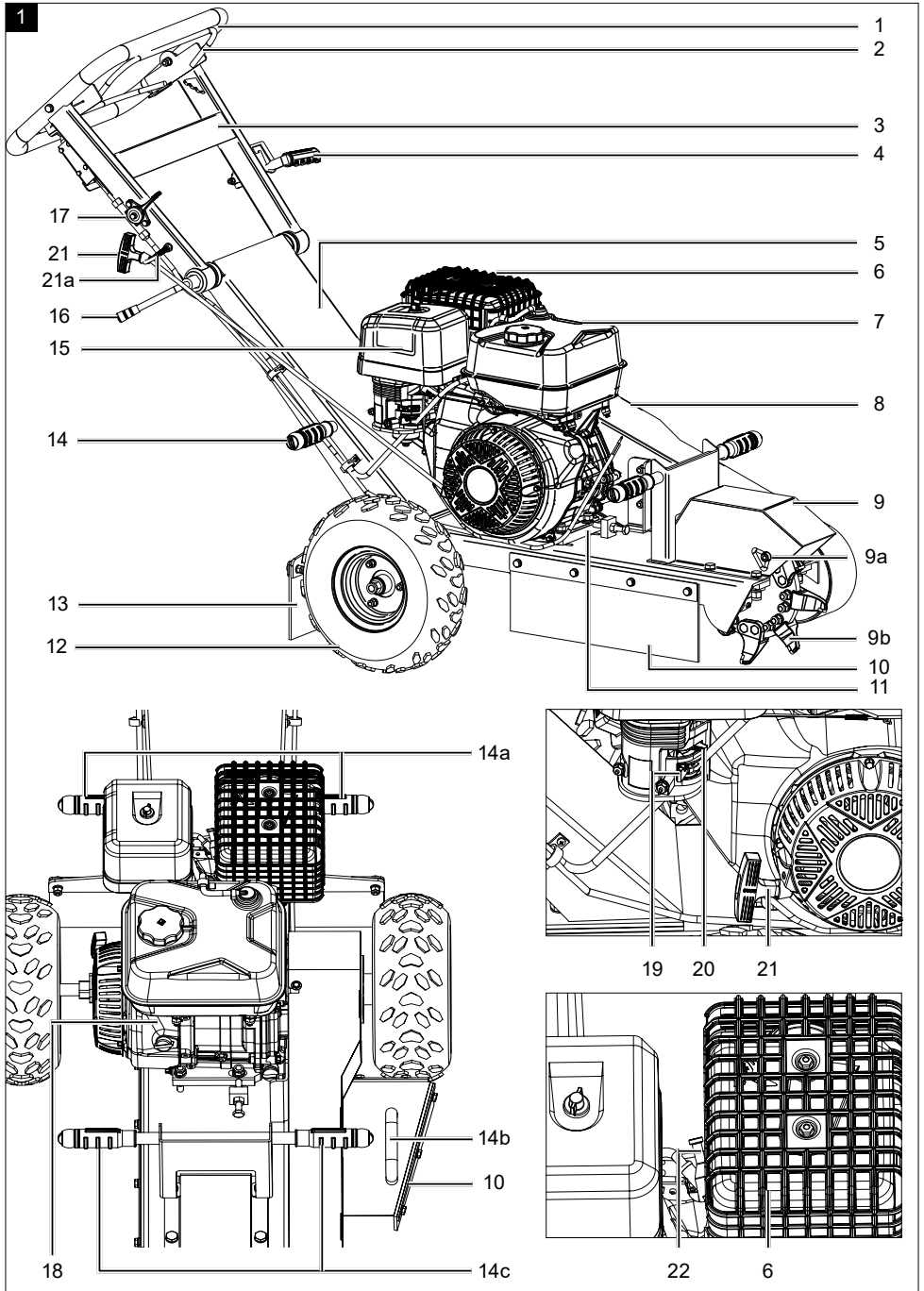
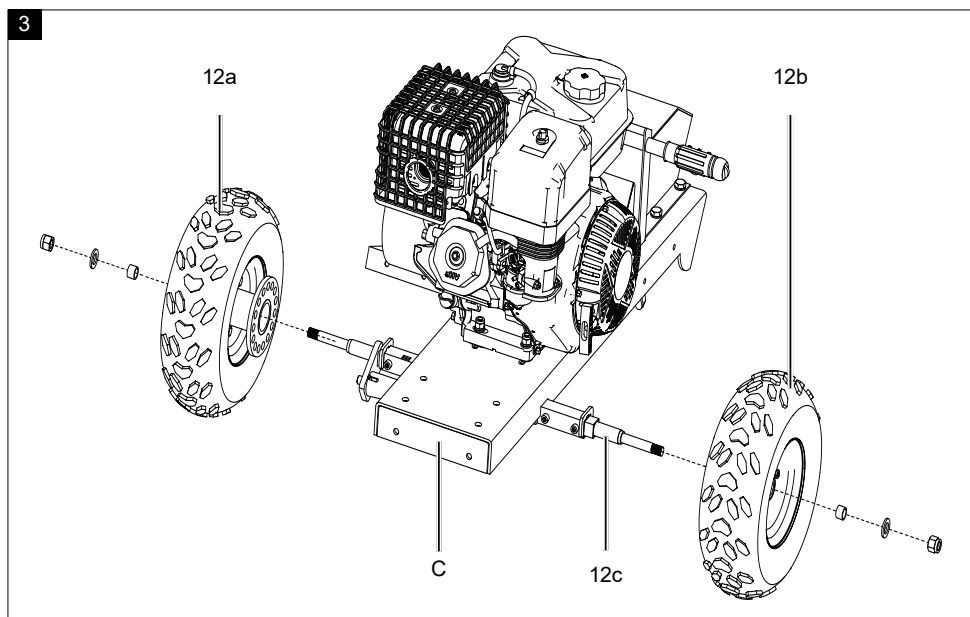
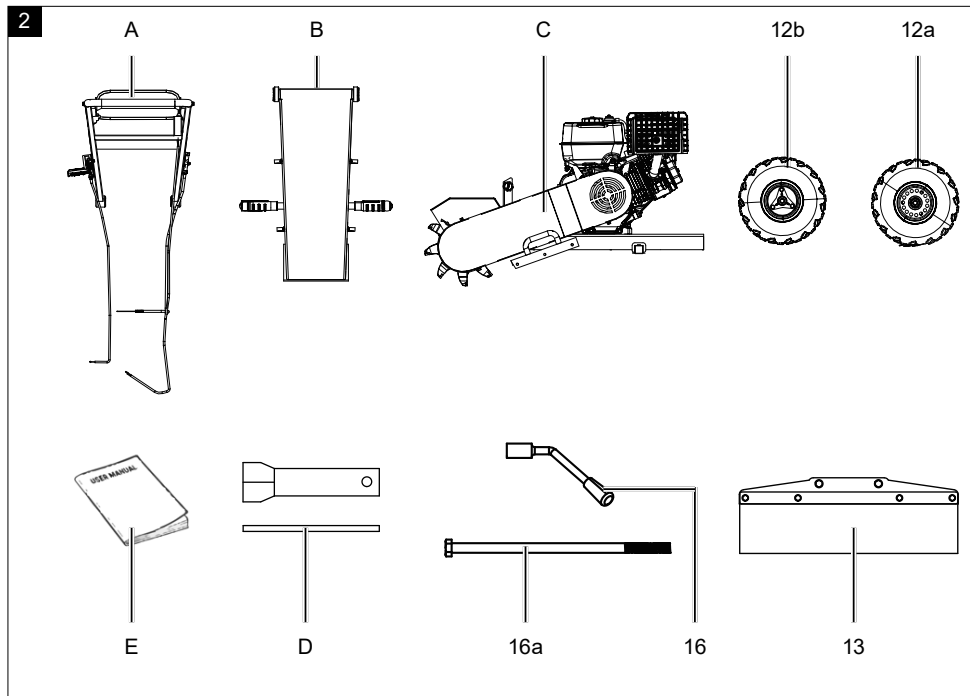
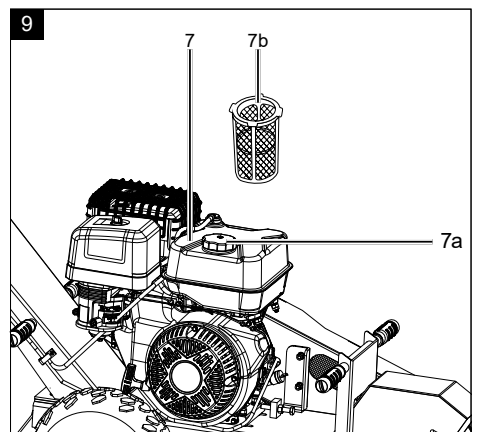
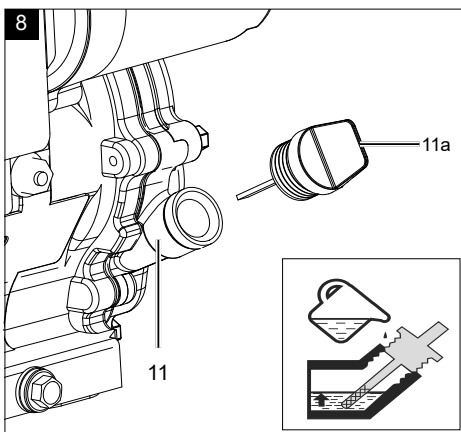
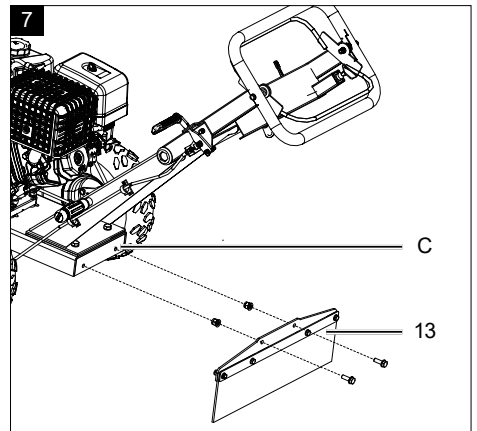
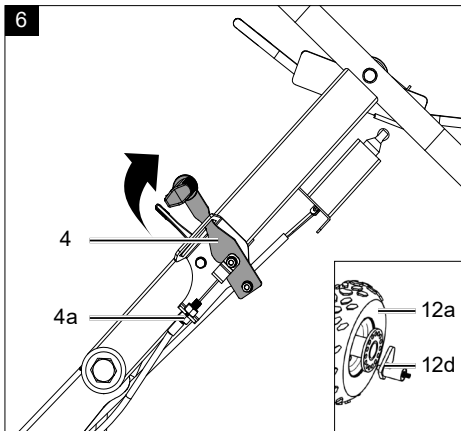
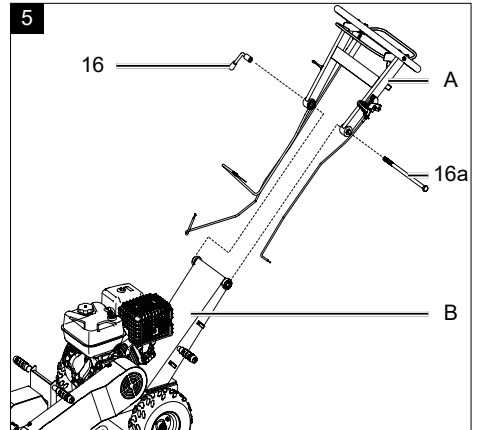
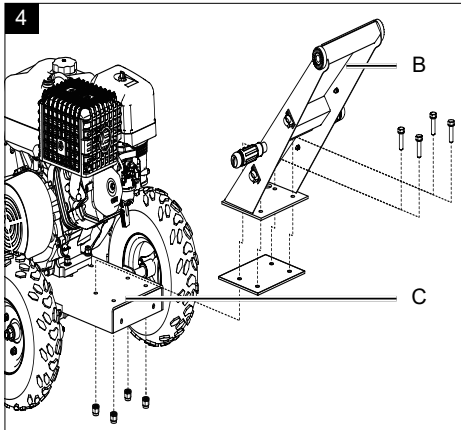
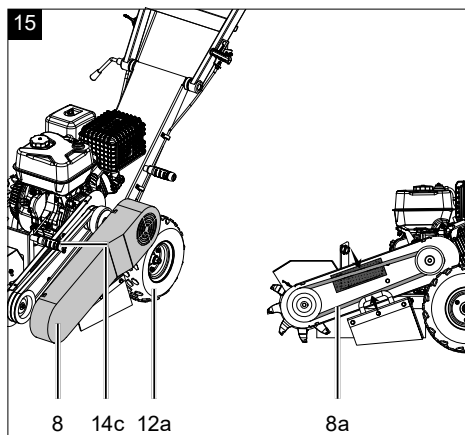
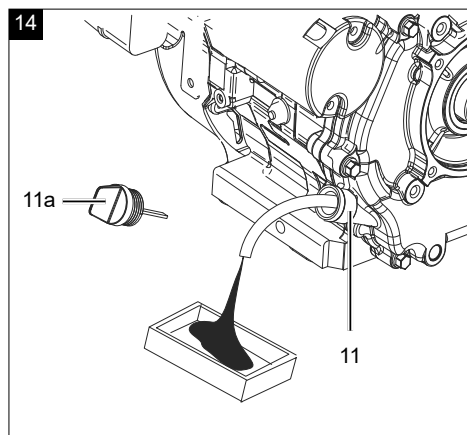
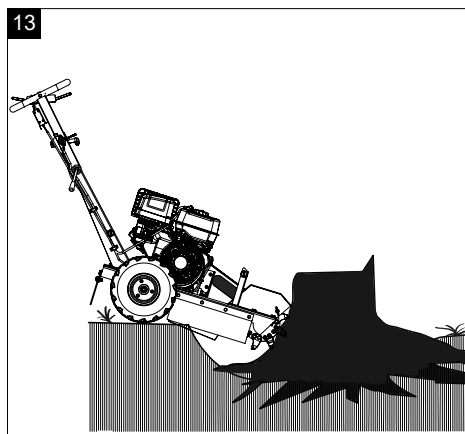
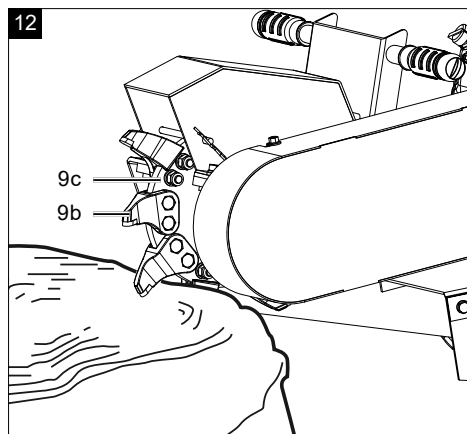
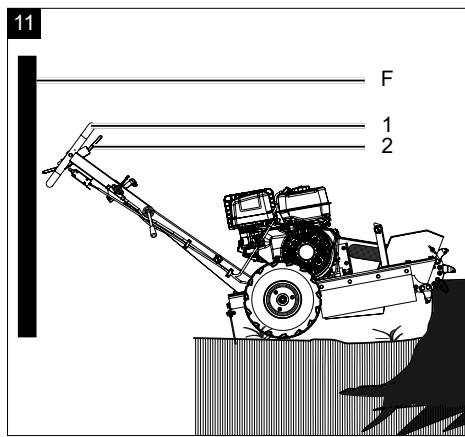
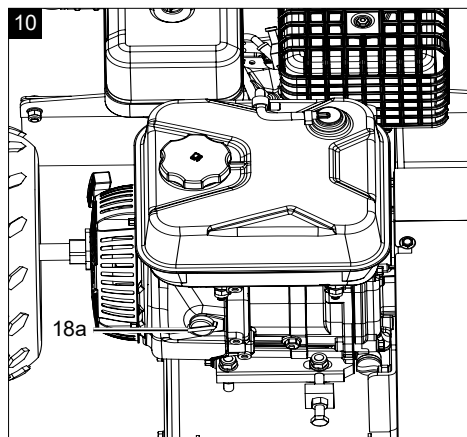










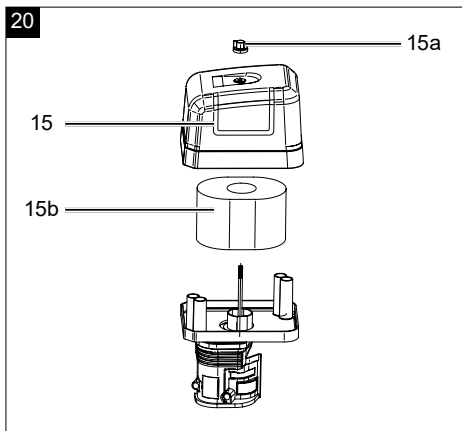
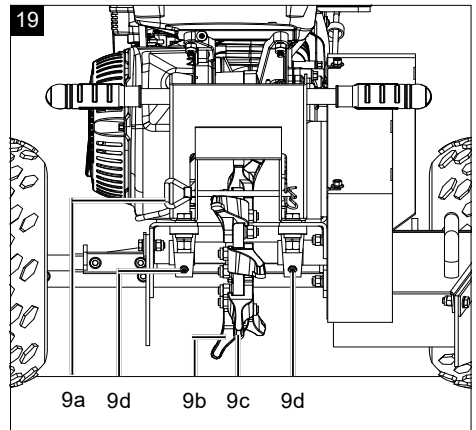
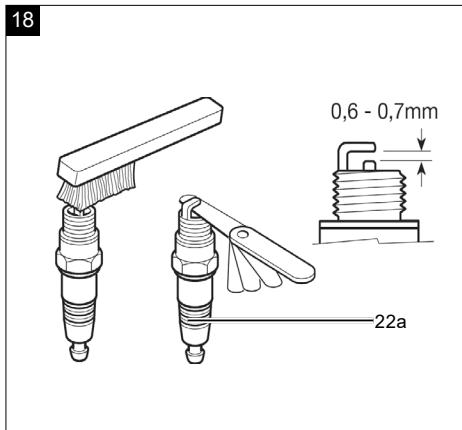
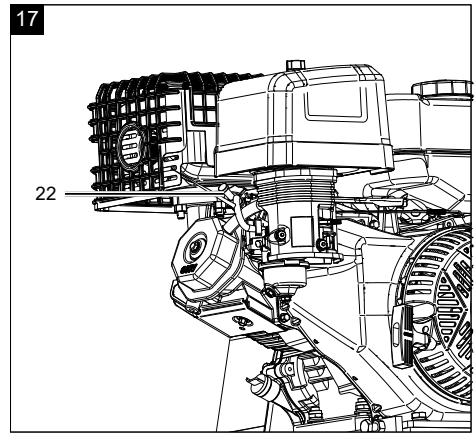
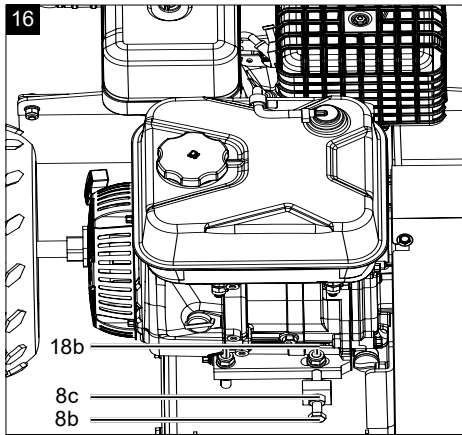
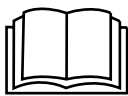


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1. Explanation of the symbols on the product

Symbols are used in this manual to draw your attention to potential hazards. The safety symbols and the accompanying explanations must be fully understood. The warnings themselves will not rectify a hazard and cannot replace proper accident prevention measures.

	Attention! Failure to observe the safety signs and warning information affixed to the product and failure to observe the safety and operating manual can result in serious injury or even death.		Check the oil level.
	Warning - Read the operating manual to reduce the risk of injury.		Danger! Rotating blades. Keep hands and feet outside of the openings when the machine is running.
	Guaranteed sound power level of the product		
	Wear hearing protection and safety goggles during the entire operating period.		Remove the spark plug connector prior to all maintenance work.
	Wear sturdy footwear!		Hurled objects and rotating parts can cause severe injuries.
	Wear safety gloves!		Important. The exhaust gases are toxic. Do not operate the engine in areas that are not ventilated.
	Make sure that other persons maintain a sufficient safety distance.		Before commissioning, read and observe the operating manual and safety instructions!
	Attention: hot surface - danger of burning. Removing or modifying protective or safety equipment is prohibited.		ATTENTION! Operating materials are flammable and explosive. Naked flames are forbidden! Do not refuel while the engine is running!
	Important. The exhaust gases are toxic. Do not operate the engine in areas that are not ventilated.		Clean and replace the air filter according to the specified maintenance interval.

	Choke closed Open the fuel valve		Direction of rotation of the milling disc
	Tank contents		Diameter of the milling disc
	Fill with oil before start-up!		Milling depth max.
	Speed adjustment Hare = fast, MAX Tortoise = slow, MIN		Milling height max.
	Locking brake applied Locking brake released		Operating materials are flammable and explosive - danger of burning. Do not refuel while the engine is hot or running.
	Danger of poisoning! Only use the product outdoors and never in closed or poorly ventilated rooms.		The product complies with the applicable Serbian directives.
	The product complies with the applicable European directives		

2. Introduction

Manufacturer:

Scheppach GmbH
Günzburger Straße 69
D-89335 Ichenhausen

Note:

In accordance with the applicable product liability laws, the manufacturer of this product assumes no liability for damage to the product or caused by the product arising from:

- Improper handling
- Failure to comply with the operating manual
- Repairs carried out by third parties, unauthorised specialists
- Installing and replacing non-original spare parts
- Improper use

Note:

The operating manual is part of this product. It includes important instructions for the safe, proper and economic operation of the product, for avoiding danger, for minimising repair costs and downtimes and for increasing the reliability and extending the service life of the product. In addition to the safety instructions in this operating manual, you must also observe the regulations applicable to the operation of the product in your country. Familiarise yourself with all operating and safety instructions before using the product. Only operate the product as described and for the specified areas of application. Keep the operating manual in a good place and hand over all documents when passing the product on to third parties.

3. Proper use

The petrol stump grinder may only be operated by one person and is intended exclusively for grinding tree stumps and their root systems up to 235 mm lower than the surface of the earth in soil or similar ground. The engine tilt must not exceed 20°.

The product may only be used in the intended manner. Any use beyond this is improper. The user/operator, not the manufacturer, is responsible for damages or injuries of any type resulting from this.

An element of the intended use is also the observance of the safety instructions, as well as the assembly instructions and operating information in the operating manual.

Persons who operate and maintain the product must be familiar with the manual and must be informed about potential dangers.

The liability of the manufacturer and resulting damages are excluded in the event of modifications of the product. The product may only be operated with original parts and original accessories from the manufacturer.

The safety, operating and maintenance specifications of the manufacturer, as well as the dimensions specified in the technical data, must be observed.

The petrol stump grinder is not too easy to operate:

- in the event of physical and mental unfitness
- without knowledge of the operating manual
- on slopes with a gradient of more than 20°
- on wet or slippery surfaces
- in snow, snowfall and frozen ground
- after dark
- in potentially explosive environments as well as indoors, garages or sheds
- after unauthorised structural alterations or modifications to the product
- after removing safety labels from the product
- after removing or bypassing safety devices
- in the event of damaged cables or milling blades

Please note that our products were not designed with the intention of use for commercial or industrial purposes. We assume no guarantee if the product is used in commercial or industrial applications, or for equivalent work.

The manufacturer is not liable for damage caused by improper use or incorrect operation.

4. Product description (Fig. 1 - 20)

1. Handle
2. Emergency stop safety bar
3. Upper guide rail
4. Locking brake
- 4a. Locknut
5. Lower guide rail
6. Exhaust system
7. Fuel tank
- 7a. Fuel filler cap
- 7b. Fuel filter insert
8. Belt cover
- 8a. V-belt
- 8b. Set screw
- 8c. Locknut
9. Milling tool cover

- 9a. Locking pin
- 9b. Milling tooth
- 9c. Milling disc
- 9d. Grease nipple
- 10. Side protection mats
- 11. Engine oil tank
- 11a. Oil filler cap with oil dipstick
- 12. Chassis
- 12a. Wheel with brake disc
- 12b. Wheel
- 12c. Wheel axle
- 12d. Pin
- 13. Rear protective mat
- 14. Lifting handles
- 14a. Top lifting handle
- 14b. Bottom lifting handle
- 14c. Rear lifting handle
- 15. Air filter cover
- 15a. Wing screw
- 15b. Air filter
- 16. Locking lever
- 16a. Fixing screw
- 17. Throttle
- 18. Engine
- 18a. On/off switch
- 18b. Engine fixing screw
- 19. Fuel valve
- 20. Choke lever
- 21. Pull starter
- 22. Spark plug connector
- 22a. Spark plug

5. Scope of delivery

Item	Quantity	Designation
A	1x	Upper bracket
B	1x	Lower bracket
C	1x	Machine body (wheel axle, 3 side protective mats pre-fitted)
12 a	1x	Wheel with brake disc
12b	1x	Wheel
13	1x	Rear protective mat
16	1x	Locking lever, upper guide rail M16
16 a	1x	Fixing screw M16x360
D	1x	Spark plug wrench
E	1x	Operating manual

6. Unpacking

⚠ WARNING

The product and the packaging material are not children's toys! Do not let children play with plastic bags, films or small parts! There is a danger of choking or suffocating!

- Open the packaging and carefully remove the product.
- Remove the packaging material, as well as the packaging and transport safety devices (if present).
- Check whether the scope of delivery is complete.
- Check the product and accessory parts for transport damage. In the event of complaints the carrier must be informed immediately. Later claims will not be recognised.
- If possible, keep the packaging until the expiry of the warranty period.
- Familiarise yourself with the product by means of the operating manual before using for the first time.
- With accessories as well as wearing parts and replacement parts use only original parts. Spare parts can be obtained from your specialist dealer.
- When ordering please provide our article number as well as type and year of manufacture for the product.

7. Technical data

Drive	1-cylinder, 4-cycle OHV petrol engine
Displacement	420 ccm ³
Engine output	9.0 kW
motor speed	3600 rpm
Fuel type	Unleaded, min. 95 ROZ (RON), max. 10 % Bioethanol (E10)
Tank capacity - petrol	6.5 l
Recommended engine oil	SAE 30 / 10W30
Engine oil tank capacity	1.1 l
Spark plug type	F7RTC
Max. incline	11 %
Starter	Pull starter
CO ₂ output	777.93 g/kWh
Type of tyres	145/70-6
Tyre pressure	1.66 bar
Belt tensioning	30-40 N (1-1.5 cm)

Lubricating grease	Lithium grease
--------------------	----------------

Milling tool

Number of milling teeth	9
Max. milling depth (below ground)	235 mm
Max. milling height (above ground)	600 mm
Ø milling disc	300 mm

Dimensions

Weight (fully assembled and without fuel)	106 kg
---	--------

Subject to technical changes!

Noise and vibration

⚠ Warning: Noise can have serious effects on your health. If the machine noise exceeds 85 dB, please wear suitable hearing protection.

Noise data

Measured sound power level L_{WA}	101.0 dB
Guaranteed sound power level L_{WA}	103 dB
Uncertainty K_{WA}	2.14 dB
Sound pressure level L_{pA}	89.6 dB
Uncertainty K_{pA}	3 dB

Vibration parameters

Vibration a_h	6.4 m/s ²
Uncertainty K_h	1.5 m/s ²

Keep the noise level and vibration to a minimum!

- Only use faultless products.
- Maintain and clean the product at regular intervals.
- Adapt your working methods to the product.
- Do not overload the product.
- Have the product checked if necessary.
- Switch the product off if it is not in use.
- Wear gloves.

⚠ WARNING

In case of extended working periods, the operating personnel may suffer circulatory disturbances in their hands (vibration white finger) due to vibrations. Raynaud's syndrome is a vascular disease that causes the small blood vessels on the fingers and toes to cramp in spasms. The affected areas are no longer

supplied with sufficient blood and therefore appear extremely pale. The frequent use of vibrating products can cause nerve damage in people whose circulation is impaired (e.g. smokers, diabetics). If you notice unusual adverse effects, stop working immediately and seek medical advice.

Observe the following information to reduce hazards:

- Keep your body and especially your hands warm in cold weather.
- Take regular breaks and move your hands to promote circulation.
- Ensure as little vibration as possible of the product via regular maintenance and stable parts on the product.

8. General safety instructions

⚠ WARNING - Read all safety information, instructions, illustrations and technical data for this product.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

8.1 Explanation of the signal words in the operating manual

⚠ DANGER

Signal word to indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

Signal word to indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

Signal word to indicate a potentially hazardous situation which, if not avoided, could result in minor or moderate injury.

ATTENTION

Signal word to indicate a potentially hazardous situation which, if not avoided, could result in product or property damage.

Save all warnings and instructions for future reference.

⚠ WARNING

Before you start working with the product, familiarise yourself well with all the control parts. The operating manual and labels on the product must be read and understood.

- Find out how and for what purposes the product can be used.
- Deal with the potential hazards of the product.
- Find out how the product is controlled and operated correctly.
- Ensure that the product can be stopped immediately in the event of an emergency.
- Do not attempt to operate the product until you fully understand how to properly operate and maintain the engine and how to prevent accidental injury and/or property damage.
- In the event of an accident or a fault during operation, switch the product off immediately. Treat injuries properly or consult a doctor.

Who is not permitted to use the product:

- The product may only be operated by people who are familiar with handling it.
- Children and young people under the age of 18 are not permitted to work with this product.
- People under the influence of alcohol, drugs and medication, as well as those who are tired or ill.

8.2 Safety at the workplace

1. Never start the engine in enclosed spaces or leave it running there. The exhaust gases are dangerous and contain carbon monoxide, an odourless and poisonous gas. Only operate this product in a well-ventilated outdoor area.
2. Before each start, ensure that there are no persons or animals in the danger zone (≥ 15 m).
3. Only use the product if you have a clear view of the work area and there is sufficient light. Never use the product in conditions of poor visibility (e.g. at dusk or in fog).
4. Never use the product on slippery, unstable or sloping surfaces.

8.3 Personal safety

1. Never allow children or other persons who do not know the operating manual to use the product.
2. If you give the product to any other person, give them this operating manual as well.

3. Wear suitable clothing. Wear long trousers, boots and gloves. Do not wear loose clothing, shorts or jewellery of any kind. Tie up long hair that reaches shoulder length. Always keep hair, clothing and gloves away from moving parts. Loose-fitting clothing, jewellery or long hair may become caught in the moving parts.
4. Wear personal protective equipment to reduce personal injury. These include:
 - Safety goggles,
 - Hearing protection,
 - safety shoes,
 - Cut-resistant clothing
 - Work gloves
5. Check the product before starting. Safety devices must be in their intended location and be in perfect condition. Make sure that all nuts, bolts, etc. are tight.
6. Do not operate the product if it needs to be repaired or is not in perfect condition.
7. Replace damaged, missing or non-functional parts prior to using the product.
8. Check the fuel system for leaks. The product must always be in a safe operating condition.
9. Never make any unauthorised changes to the safety devices. Check that they are operating properly on a regular basis.
10. The product must not be used if it cannot be switched on or off using the motor switch. Products running on fuel that cannot be controlled using the engine switch are hazardous and must be replaced.
11. Regularly check that spanners have been removed from the product before starting. Personal injury can result from a spanner left on a rotating part.
12. Remain alert and use common sense when operating the product.
13. Do not operate the machine barefooted, with sandals or similar light footwear. Wear safety shoes that protect your feet and improve your grip on slippery surfaces.
14. Avoid abnormal postures. Keep proper footing and balance at all times. This gives you better control over the product in unexpected situations.
15. Avoid inadvertent starting. Ensure that the motor is switched off prior to transporting the product or carrying out maintenance or servicing work on the product.
16. Transporting the product or carrying out maintenance or servicing work on the product while the motor is running can lead to accidents.
17. Keep hands and feet away from the moving machine parts.

8.4 Safe handling of fuels

WARNING

Fuel is highly flammable. Escaping gases are explosive. Fuel tanks may explode when heated:

1. Only store fuel in containers (canisters) designed for this purpose.
2. Refuel outdoors only and do not smoke while refuelling.
3. Fuel must be filled before starting the engine. While the engine is running or immediately after switching off the product, do not open the fuel filler cap or add fuel.
4. If fuel overflows, no attempts should be made to start the engine. Instead, the product must be removed from the area contaminated with fuel. Do not try to start the engine until the fuel vapours have evaporated.
5. For safety reasons, the fuel tanks and other fuel caps must be replaced if damaged.
6. Never store fuel near a source of sparks. Always use a tested canister. Keep fuel away from children.
7. Replace defective silencers.
8. Prior to use, always perform a visual inspection to check whether the blade and fastening bolts are worn out or damaged. To prevent an imbalance, worn out or damaged blades and bolts may only be replaced in sets.
9. Always switch off the engine and let it cool down before refilling the tank. Never remove the tank cover or add fuel while the engine is running or hot. Do not operate the product if the fuel system is leaking.
10. Only use the fuel specified in the technical data.
11. Do not overfill the tank. Fill with fuel to approximately 1.5 cm below the filler neck to allow space for expansion of the fuel due to heat generated by the engine.
12. Put the tank and container covers back on again tight and wipe off any spilled fuel. Do not operate the product if the fuel tank cap is not fitted.
13. Store the fuel in a cool, well-ventilated place protected from sparks, open flames or other sources of ignition.
14. Never store fuel or the product containing a tank filled with fuel in a building where exhaust fumes could come into contact with ignition sparks, open flames or any other ignition source, such as water heaters, ovens, dryers or similar. Allow the engine to cool down before storing the product in enclosed spaces.

8.5 Safety notes on use and care of the product

1. Before starting work, ensure that there are no nails, metal, wires or similar objects in the tree stump and that there are no stones or similar objects on the ground. It is possible that these may become caught or thrown away during milling.
2. Do not start the product until you are near the tree stump.
3. Never pick up the product if the engine is running.
4. Do not operate the product with force.
5. Only carry the product using both hands on the handles provided for this purpose.
6. Use the right product for your application. The right product will perform the task better and more safely.
7. Do not change the settings on the speed control and do not allow the engine to overrev. The speed control controls the maximum safe operating speed of the engine.
8. Avoid contact with hot fuel, oil, flue gases and hot surfaces. Do not touch the engine or silencer. These parts become extremely hot during operation. They also remain hot for a short time after the product has been switched off. Allow the engine to cool before carrying out maintenance or making adjustments.
9. Avoid sudden movements, tilting or jamming the tool.
10. The product is equipped with an emergency stop safety bar. In the event of injury, fire or technical malfunction, stop operation immediately.
11. If the product makes unusual noises or vibrates unusually, switch off the engine immediately, disconnect the ignition cable and look for the cause. Unusual noises or vibrations are generally a warning sign.
12. Only use spare parts and accessories approved by the manufacturer. Failure to comply with this requirement may result in personal injury.
13. Maintain the product. Check whether any parts in motion are misaligned or blocked. Check whether any parts are broken or whether there is any other condition that could affect the operation of the product. If the product is damaged, have it repaired before using it again. Many accidents occur due to inadequately serviced equipment.
14. Clear the motor and silencer of grass, leaves, excessive grease or built-up carbon to reduce the risk of fire.
15. Always keep cutting tools sharp and clean. Cutting tools with sharp cutting edges that have been properly maintained are less likely to jam and are easier to control.
16. Never pour or splash water or any other liquid on the product. Keep handles dry, clean and free of

residues. Clean the product thoroughly after each deployment.

17. Adhere to laws and regulations concerning the proper disposal of fuel, oil, etc., in order to protect the environment.
18. Keep the product out of the reach of children when not in use and do not allow persons unfamiliar with the product or these instructions to operate the product. The product is dangerous in the hands of untrained users.

8.6 Safety instructions for maintenance and repairs

1. Switch off the engine before cleaning, repairing, inspecting or adjusting the product. Ensure that all moving parts have been stopped.
2. Disconnect the ignition cable and position the cable away from the spark plug to prevent accidental starting.
3. Only use manufacturer's recommended accessories and replacement parts. This ensures that the safety of the product is maintained.
4. Should the product fail despite our quality controls and your care, only have repairs that are beyond your qualifications and technical capabilities carried out by an authorised specialist workshop.

8.7 Residual risks and protective measures

Neglect of ergonomic principles

Negligent use of personal protective equipment (PPE)

Careless use or omission of personal protective equipment may result in serious injury.

- Wear prescribed protective equipment.

Human behaviour, misconduct

- Always concentrate on all work.
- When you first come into contact with the tree stump, be prepared for the possibility of a significant kick-back.
- Take breaks from work. Prolonged use of the product may cause injuries due to vibrations.

Residual danger

- Can never be ruled out

Danger from noise

Hearing damage

Prolonged unprotected work with the product may cause hearing damage.

- Always wear hearing protection as a matter of principle.

Behaviour in an emergency

In the event of an accident, initiate the necessary first aid measures and seek assistance as quickly as possible.

8.8 Residual risks

The product has been built according to state-of-the-art and the recognised technical safety rules. However, individual residual risks can arise during operation. Furthermore, despite all precautions having been met, some non-obvious residual risks may still remain.

- Residual risks can be minimised if the "Safety Instructions" and the "Intended Use" together with the operating manual as a whole are observed.
- Use the tool attachment that is recommended in this operating manual. This is how to ensure that your product provides optimum performance.
- Keep your hands away from the working area when the product is in operation.

9. Assembly

CAUTION

Risk of injury from rotating milling tool Only carry out work on the product when the milling tool is switched off and at a standstill!

ATTENTION

Due to the heavy product weight, we recommend that at least three people assemble the product.

- Place the product on a level, even surface.
- Ensure that the safety bar and cable are not broken or damaged by being crushed, pulled or the like.

Required tool:

- Open-ended spanner, size 10 mm*
 - Open-ended spanner, size 12 mm*
 - Open-ended spanner, size 17 mm*
 - Open-ended spanner, size 22 mm*
- * may not be included in the scope of delivery!

9.1 Fitting the wheels (Fig. 3)

ATTENTION

Risk of damage

Follow the exact steps to ensure a functional product.

1. Remove the pre-assembled mounting hardware from the wheel axle (12c).
2. Attach the wheel (12a) to the wheel axle (12c) as shown. Use the assembly materials removed in the first step for this purpose.

3. Repeat the process with the second wheel (12b).
4. Tighten the wheels to a torque of 75 Nm. Use a torque wrench for this.*

9.2 Fitting the lower bracket (Fig. 4)

1. Remove the pre-assembled mounting material from the machine body (C).
2. Attach the lower bracket (B) to the machine body (C) as shown. Use the mounting material that was removed earlier for this purpose.

9.3 Fitting the upper bracket and locking lever (Fig. 5)

1. Connect the upper bracket (A) to the lower bracket (B) attached to the machine body (C) as shown.
2. Move the upper bracket (A) into the desired position and hold it firmly in place.
3. Ask a second person to insert the fixing screw (16a) and the locking lever (16) into the holes provided.
4. Now the second person can fix the desired position using the locking lever (16).

9.4 Securing the locking brake Bowden cable (Fig. 6)

- Use the lock nut (4a) to adjust the Bowden cable of the locking brake (4) so that it begins to pull when the parking brake (4) is applied.
- The locking brake (4) must offer noticeable resistance when fully engaged.
- The bolt (12d) on the wheel (12a) must visibly move away from the brake disc when tightened.

9.5 Fitting the rear protective mat (Fig. 7)

1. Remove the pre-fitted mounting hardware from the rear rubber mat (13).
2. Attach the rear rubber mat (13) to the machine body (C) as shown. Use the assembly materials you removed earlier for this.

10. Before commissioning

ATTENTION

Before commissioning, ensure that the product is fully assembled and that the locking pin (9a) has been removed!

⚠ WARNING

Health hazard!

Inhalation of fuel / lubricating oil vapours and exhaust gases can cause serious damage to health, unconsciousness and in extreme cases death.

- Do not breathe fuel / lubricating oil vapours and exhaust gases.
- Operate the product outdoors only.

ATTENTION

Product damage!

If the product is operated without or with too little engine oil, this can lead to product damage.

- Fill with fuel and engine oil before commissioning.
- The product is delivered without engine oil.

ATTENTION

Environmental damage!

Spilled oil can pollute the environment permanently. The liquid is highly toxic and can quickly lead to water pollution.

- Fill/empty oil only on level, paved surfaces.
- Use a filling nozzle or funnel.
- Collect drained oil in a suitable container.
- Wipe up spilled oil carefully immediately and dispose of the cloth according to local regulations.
- Dispose of oil as per local regulations.

ATTENTION

Risk of damage!

If incorrectly stored or undrained fuel is used, the carburettor may become clogged or engine operation may be affected.

- Put unused fuel in an airtight vessel and store it in a dark, cool room.

Place the product on a level, even surface.

Required tool:

- Funnel*
- Rag/cloth*

* may not be included in the scope of delivery!

10.1 Filling in engine oil (Fig. 8)

ATTENTION

The product is delivered without engine oil. Therefore, ensure that you add oil before starting it up. Use the engine oil type specified in the technical data.

Check the oil level regularly before commissioning. An oil level that is too low can damage the motor.

1. Unscrew the oil filler cap with oil dipstick (11a).
2. Fill the engine oil tank (11) using a funnel. Do not exceed the maximum filling level (see Technical Data). Carefully fill the engine oil to the lower edge of the filling nozzle.

3. Wipe the oil filler cap with oil dipstick (11a) with a clean, lint-free cloth.
4. Screw the oil filler cap with oil dipstick (11a) back into the filling nozzle until it reaches the stop.
5. Unscrew the oil filler cap with oil dipstick (11a) and read the oil level in the horizontal position. The oil level must be between L (low) and H (high).
6. If the oil level is too low, repeat the process.
7. Then screw the oil filler cap with oil dipstick (11a) back in.

10.2 Filling in fuel (Fig. 9)

⚠ DANGER

Risk of fire and explosion

When filling, fuel may ignite and even explode. This can lead to severe burns or death.

- Switch off the engine and let it cool down.
- Keep heat, flames and sparks away.
- Only fill up with fuel outdoors.
- Wear protective gloves.
- Avoid contact with skin and eyes.
- Start the product at a distance of at least 3 m from the fuel filling point.
- Watch out for leaks. If fuel is leaking, do not start the engine.
- Wipe up spilled fuel immediately and wait until the fuel vapours have dissipated.

ATTENTION

The product is delivered without fuel. It is therefore essential to fill with fuel before commissioning. Use the fuel specified in the technical data for this purpose.

1. Clean the area surrounding the filling area. Impurities in the fuel tank (7) lead to operational faults.
2. Carefully open the tank cover (7a) so that any possible overpressure can be relieved.
3. Fill the fuel tank (7) with fuel using a funnel (not included in scope of delivery). Observe the maximum filling quantity specified in the technical data. Carefully fill the fuel up to the lower edge of the filling port.
4. Close the fuel filler cap (7a) again. Ensure that the fuel cap is tightly sealed.
5. Clean the tank cover (7a) and the surroundings.

11. Operation

ATTENTION

Always make sure the product is fully assembled before commissioning!

ATTENTION

When using products, several safety warnings must be observed to prevent injuries and damage. For this reason, please carefully read this operating manual/ these safety instructions. If you hand the product over to another person, please hand over this operating manual / safety instructions as well. We accept no liability for accidents or damage that occur due to a failure to observe this manual and the safety instructions.

11.1 Check before use (Fig. 1)

⚠ WARNING

Check the safety equipment regularly before each start-up. Faulty safety equipment can cause serious injuries.

- Check that all protective covers (8, 9, 10, 13) are in place and all screws, nuts and bolts are tightened.
- Check that the locking pin has been removed.
- Check all sides of the engine for oil or fuel leaks.
- Check the engine oil level.
- Check the fuel level – the fuel tank should be at least half-full.
- Check the condition of the air filter.
- Check the condition of the fuel lines.
- Make sure that the spark plug connector is attached to the spark plug.
- Look for signs of damage.

11.2 Setting the speed (Fig. 1)

Use the throttle lever (17) to set the engine to the desired speed. There are

- Position: MIN–Tortoise
- Position: MAX–Hare

11.3 Starting engine with a cold engine (Fig. 1, 10)

Note:

With high outside temperatures, it may be necessary to start the engine without the choke even when the engine is cold!

1. Check the fuel and engine oil level before every start. Make sure that the spark plug connector (22) is connected to the spark plug (22a).
2. Set the choke lever (20) to the left to CHOKE.
3. Open the fuel tap (19) by setting the lever to ON.

4. Set the throttle (17) to "half throttle" (= middle position between MIN– tortoise and MAX– hare).
5. Set the on/off switch (18a) to the "ON" position. (Fig. 10)
6. Pull the emergency stop safety bar (2) by the handle (1) and hold it.
7. Slowly pull out the pull starter (21) until the first resistance is felt.
8. Now pull the pull starter (21) and the engine should start. If the engine does not start, repeat the process.
9. Allow the engine to warm up briefly. Then slowly open the choke lever (20) to switch to "Normal operation".
10. Use the throttle lever (17) to set the speed that is suitable for you.

11.4 Starting engine with a warm engine (Fig. 1, 10)

(The product stood still for less than 15 – 20 minutes.)

1. Check the fuel and engine oil level before every start. Make sure that the spark plug connector (22) is connected to the spark plug (22a).
2. Ensure that the choke lever (20) is set to ON.
3. Open the fuel tap (19) by setting the lever to ON.
4. Set the throttle (17) to "half throttle" (= middle position between MIN– tortoise and MAX– hare).
5. Set the on/off switch (18a) to the "ON" position. (Fig. 10)
6. Pull the emergency stop safety bar (2) by the handle (1) and hold it.
7. Slowly pull out the pull starter (21) until the first resistance is felt.
8. Now pull the pull starter (21) and the engine should start. If the product has still not started after 6 pulls, repeat the process described under 11.3.
9. Use the throttle lever (17) to set the speed that is suitable for you.

11.5 Switch off the engine (Fig. 1, 10)

⚠ WARNING

Danger of injury

After switching the engine off, the milling tool continues to run for a few seconds. If you touch the rotating parts, you may cut yourself.

- Wait until the milling tool comes to a standstill.
- Do not stop the milling tool with your hand.
- Wear protective gloves.
- Keep the milling tool away from your feet.

ATTENTION

Allow the product to run for a short time (approx. 30 seconds) switching it off so that the engine can cool down.

1. Use the throttle (17) to set the speed to MIN–Tortoise.
2. Release the emergency stop safety bar (2).
3. Turn the on/off switch (18a) to OFF. (Fig. 10)
4. Wait until the milling tool has come to a complete stop.
5. Disconnect the spark plug connector (22) from the spark plug (22a) to prevent the engine from restarting.
6. Engage the locking brake (4). To do this, pull the lever backwards.
7. Close the fuel tap (19) by setting the lever to OFF.

11.6 Emergency shutdown (Fig. 1, 10)

WARNING

Danger to life due to uncontrolled restarting

Uncontrolled restarting can result in serious injury or death.

- Before switching the power back on, ensure that the cause of the emergency stop has been rectified.
- Ensure that all safety devices are properly installed and in good working order.
- Do not recommence operation of the product until there is no danger to persons.

The emergency stop safety bar (2) prevents the product from starting if the bar is not pressed. This can also be used for emergency shutdown in the following situations:

- when the engine is revving
- if the throttle lever (17) is stuck or not working
- in case of danger

In an emergency, proceed as follows:

1. Release the emergency stop safety bar (2). The engine will stop immediately.
2. Engage the locking brake (4). Pull the lever backwards.
3. Before switching the machine back on, eliminate the cause of the emergency stop. If necessary, alert a doctor and the fire brigade and initiate first aid measures.
4. Switch off the on/off switch (18a, Fig. 10) and secure the product against being switched on again.

11.7 Automatic oil cut-off (Fig. 10)

Note:

The automatic oil cut-off system responds when there is too little engine oil.

1. If the oil level is too low, top up the oil as described in 10.1.
2. Press the on/off switch (18a) as described in 11.5.

12. Working instructions

⚠ WARNING

Risk of injury from rotating components

- Keep hands, feet and clothing away from moving parts of the product (drive belts, milling tools, etc.).

⚠ WARNING

Risk of injury and damage from flying parts

Loose items can become caught in the machine and fly out in any direction. They can also bounce off other objects and injure people or damage property.

- Remove stones, roots, wires, etc. from the work area.
- Ensure that bystanders keep a sufficient distance.
- Work with the utmost caution.

⚠ WARNING

Risk of burns from hot surfaces

- Wear protective clothing and gloves when working near hot construction and engine parts.

⚠ CAUTION

Risk of cuts on the milling tool due to sharp edges and pointed corners

- Always proceed with caution when working near sharp edges and pointed corners.
- Wear protective gloves.

12.1 Operator position (Fig. 11)

1. Stand behind the product while working. (F, Fig. 11)
2. Ensure that you can always reach the handle (1) and the emergency stop safety bar (2), as the emergency stop safety bar (2) must be pulled during the entire milling process.
3. Ensure that the surface is safe and level and that there is sufficient distance from people and obstacles. Keep unauthorised persons away.

12.2 Removing tree stumps (Figs. 1, 11–13)

1. Carefully move the stump grinder to the designated work site.

2. Observe the requirements for operator position under 12.1.
3. Check the machine in accordance with the information in 11.1 of the operating machine. Ensure that all safety-related components are functioning properly and that there is no visible damage.
4. Start the engine according to the instructions in 11.3 or 11.4.
5. Apply the locking brake (4) and then accelerate to full throttle to reach the optimum operating speed.
6. Now start with the milling work. Tilt the product onto the chassis (12) so that the entire milling tool with milling disc (9c) and milling teeth (9b) is lifted off the tree stump surface. (Fig. 12)
7. Guide the cutter from left to right until the desired depth is reached. Ensure that you move the tool evenly and avoid removing too much material in a single pass. (Fig. 13)
8. Excess material may accumulate during work. Always switch off the machine before removing the material to avoid injury. Then carefully remove the material before continuing with the work.
9. Once you have finished milling, switch off the stump grinder as described in 11.5 and allow it to cool down completely. Afterwards, the stump grinder should be thoroughly cleaned to remove dirt, chips and residues. Only then can the machine be stored safely and dry.

13. Maintenance

⚠ WARNING

In the event that the user is to perform maintenance and service work, the user must possess the necessary technical skills.

If the product is shut down for maintenance, inspection or storage, turn off the engine, disconnect the spark plug connector from the spark plug and ensure that all rotating parts have stopped.

Secure the product to prevent an inadvertent start-up before carrying out maintenance and/or servicing work:

- Switch off the engine before carrying out any cleaning or maintenance work.
- Allow the motor to cool down.
- Remove the spark plug connector (22) from the spark plug (22a).
- Regular, careful servicing is required to guarantee the safety level and performance of the product.

- Ensure that all nuts, pins and screws are securely tightened so that the product is in a safe working condition.
- Check the product regularly for signs of wear and loss of functionality.
- For safety reasons, replace worn or damaged parts.
- Use only original spare parts.
- Check that the wheels (6) are securely fastened.
- Any work not described in this operating manual must be performed by an authorised specialist workshop only.

13.1 Changing the oil (Fig. 1, 14)

WARNING

Health hazard!

Inhalation of fuel / lubricating oil vapours and exhaust gases can cause serious damage to health, unconsciousness and in extreme cases death.

- Do not breathe fuel / lubricating oil vapours and exhaust gases.
- Operate the product outdoors only.

ATTENTION

Product damage!

If the product is operated without or with too little engine oil, this can lead to product damage.

- Fill with fuel and oil before commissioning. The product is delivered without engine oil.

ATTENTION

Environmental damage!

Spilled oil can pollute the environment permanently. The liquid is highly toxic and can quickly lead to water pollution.

- Fill/empty oil only on level, paved surfaces.
- Use a filling nozzle or funnel.
- Collect drained oil in a suitable container.
- Wipe up spilled oil carefully immediately and dispose of the cloth according to local regulations.
- Dispose of oil as per local regulations.

Change the engine oil after 100 operating hours.

The engine oil change should be carried out while the engine is at operating temperature.

1. Place the product on a level, even surface.
2. Remove the spark plug connector (22) from the spark plug (22a). (Fig. 1)
3. Unscrew the oil dipstick (11a).
4. Now use an oil pump to pump the old oil out of the engine oil tank (11) through the opening of the oil filler plug (11a).

5. Fill with new engine oil (for type and quantity, see technical data).
6. Wipe the oil dipstick (11a) with a clean, lint-free cloth.
7. Screw the oil dipstick (11a) back into the filler neck until it reaches the stop.
8. Screw the oil dipstick (11a) out and read the oil level in the horizontal position. The oil level must be between L (low) and H (high).
9. If the oil level is too low, top up the oil as described in section 9.1.
10. Dispose of the used oil properly.

Dispose of the used oil in accordance with applicable regulations.

* may not be included in the scope of delivery!

13.2 Checking the oil level (Fig. 1, 14)

NOTE!

Product damage

If the product is operated without or with too little engine oil, this can lead to product damage.

- Fill with petrol and oil before commissioning. The product is delivered without engine oil.
- Only use the fuel specified in the technical data.
- Only use the engine oil specified in the technical data.

NOTE!

Environmental damage!

Spilled oil can pollute the environment permanently. The liquid is highly toxic and can quickly lead to water pollution.

- Fill/empty oil only on level, paved surfaces.
- Use a filling nozzle or funnel.
- Collect drained oil in a suitable container.
- Wipe up spilled oil carefully immediately and dispose of the cloth according to local regulations.
- Dispose of oil as per local regulations.

1. Place the product on a level, even surface.
2. Remove the spark plug connector (22) from the spark plug (22a). (Fig. 1)
3. Unscrew the oil filler cap with oil dipstick (11a).
4. Wipe the oil filler cap with oil dipstick (11a) with a clean, lint-free cloth.
5. Screw the oil filler cap with oil dipstick (11a) back into the filling nozzle until it reaches the stop.
6. Unscrew the oil filler cap with oil dipstick (11a) and read the oil level in the horizontal position. The oil level must be between L (low) and H (high) on the oil filler cap with oil dipstick (11a).
7. If the oil level is too low, top up the oil as described

in section 10.1.

8. Then screw the oil filler cap with dipstick (11a) back on.

13.3 Draining petrol with a petrol extraction pump* (Fig. 1, 9)

In the case of storage over a longer period of time, the petrol must be drained.

1. Place the product on a level, even surface.
2. Remove the spark plug connector (22) from the spark plug (22a). (Fig. 1)
3. Hold a collection bucket under the hose on the petrol extraction pump.
4. Unscrew and remove the fuel filler cap (7a).
5. Remove the fuel filter insert (7b).
6. Push the petrol extraction pump's hose into the fuel tank (7) and drain the petrol completely using the petrol extraction pump.
7. Reinsert the fuel filter insert (7a).
8. Retighten the fuel filler cap (7a).

*may not be included in the scope of delivery

13.4 Checking and replacing the V-belts

Remove the belt cover (8) to gain access to the V-belt (8a). Never use the product without the belt cover (8). If the belt cover (8) is not in place, it is possible that your hand will be caught between the V-belt and the clutch, causing you serious injury.

13.4.1 Tensioning the V-belts (Fig. 1, 15, 16)

The V-belt (8a) must be in good condition to ensure optimum power transmission from the engine to the eccentric shaft.

Check the condition of the V-belt.

1. Switch off the engine (18) and let it cool down. (Fig. 1)
2. Place the product on a level, even surface.
3. Remove the spark plug connector (22) from the spark plug (22a).
4. Support the chassis (12) with wooden blocks, for example, and secure it against rolling away.
5. Loosen and remove the wheel with the brake disc (12a).
6. Remove the belt cover (8) by unscrewing the four hexagonal bolts using a 10 mm open-ended spanner. (Fig. 15)
7. Now check the belt tension (thumb pressure). If the V-belt (8a) gives more than 10-15 mm (thumb pressure), you must retighten it.
8. To do this, slightly loosen the four motor fixing screws (18b) on the motor and push the motor forward towards the lifting handles (14c). (Fig. 15, 16)
9. Now loosen the two counter nuts (8c).

10. Tighten the V-belt (8a) using the adjusting screw (8b) if the V-belt (8a) gives more than 10-15 mm (thumb pressure). To do this, turn the adjusting screw (8b) clockwise. Make sure that the engine and pulley remain at a right angle.
11. After tensioning, retighten the four engine fixing screws (18b) and the counter nuts (8c).
12. Re-attach the belt cover (8) and secure it with four hexagonal bolts.
13. Fit the wheel with the brake disc (12a). When installing, ensure that the fixing parts are assembled in the correct order.
14. Remove all the parts you needed to support it underneath.

13.4.2 Replacing the V-belt (Fig. 1, 15, 16)

If the V-belt (8a) is torn, worn out or smooth, it must be replaced.

1. Switch off the engine (18) and let it cool down. (Fig. 1)
2. Place the product on a level, even surface.
3. Remove the spark plug connector (22) from the spark plug (22a).
4. Support the chassis (12) with wooden blocks, for example, and secure it against rolling away.
5. Loosen and remove the wheel with the brake disc (12a).
6. Remove the belt cover (8) by unscrewing the four hexagonal bolts using a 10 mm open-ended spanner. (Fig. 15)
7. Then slightly loosen the four engine fixing screws (18b) on the engine. (Fig. 16)
8. To release the tension on the V-belt (8a), open the lock nut (8c) and turn the adjusting screw (8b) anti-clockwise.
9. Push the motor towards the lifting handles (14c). (Fig. 15)
10. Pull the worn V-belts (8a) off the pulleys and fit the new V-belts correctly.
11. Tighten the V-belt (8a) using the adjusting screw (8b) if the V-belt (8a) gives more than 10-15 mm (thumb pressure). To do this, turn the adjusting screw (8b) clockwise. Make sure that the engine and pulley remain at a right angle. (Fig. 16)
12. After tensioning, retighten the four engine fixing screws (18b) and the counter nuts (8c).
13. Re-attach the belt cover (8) and secure it with four hexagonal bolts.
14. Fit the wheel with the brake disc (12a). When installing, ensure that the fixing parts are assembled in the correct order.

- Remove all the parts you needed to support it underneath.

13.5 Maintaining the spark plug (22a) (Fig. 17, 18)

Check the spark plug (22a) for contamination for the first time after 20 operating hours and clean it with a copper wire brush if necessary. Then maintain the spark plug (22a) every 50 operating hours.

- Place the product on a level, even surface.
- Remove the spark plug connector (22) from the spark plug (22a).
- Remove the spark plug (22a) with the spark plug wrench (D).
- Remove any dirt from the base of the spark plug (22a).
- Visually inspect the spark plug (22a). Remove any deposits present using a copper wire brush.
- Check the spark plug gap. Use a feeler gauge to adjust the electrode gap to 0.6-0.7 mm.
- Refit the spark plug (22a) and take care not to overtighten it.
- Then place the spark plug connector (22) on the spark plug (22a).

ATTENTION

When you remove or attach the V-belt (8a), make sure that your fingers do not get caught between the belt and the pulley.

13.6 Greasing grease nipples (Fig. 17-19)

- Place the product on a level, even surface.
- Remove the spark plug connector (22) from the spark plug (22a).
- Secure the milling disc (9c) using the locking pin (9a).
- Remove the protective caps from the grease nipples (9a) on both sides.
- Use a lint-free cloth to clean the grease nipples (9d) on both sides.
- Use 1-2 pumps of the grease nipples to lubricate the bearings (9d) on both sides.
- Use a lint-free cloth to clean the grease nipples (9d) on both sides to remove excess grease.
- Fit the protective caps to the grease nipples (9d) on both sides.
- Reattach the spark plug cap (22) to the spark plug (22a).

13.7 Changing the milling tool (Fig. 19)

- Place the product on a flat and stable surface.
- Secure the product against rolling away and accidental starting.
- Insert the locking pin (9a) to secure the tool.
- Loosen the two nuts (17 mm spanner size) and then remove the two bolts (17 mm spanner size).
- Replace the milling tooth (9b).
- Now refit the two screws (SW17 mm) and secure them with the two nuts (SW17 mm).

13.8 Maintenance plan

Task:	Before every use	Every 25 operating hours	every 50 operating hours	Annually or every 100 operating hours
Replace the spark plug			X	
Change the engine oil				X
Checking the oil level	X			
Tightening/checking screws (milling disc)	X			
Check milling tool for damage and wear	X			
Check the air filter		X		
Check the braking system	x			
Tyre pressure				X
Grease the grease nipples		X		
Checking the emergency stop safety bar	X			
Check belt tension		X		
Check the fuel quantity	X			

14. Cleaning

⚠ WARNING

Risk of injury from starting machine

- Always switch off the engine and disconnect the spark plug connector before making any adjustments to the product.
 - Allow the product to cool
- Keep protective devices, air vents and the motor housing as free of dust and dirt as possible. Rub the product clean with a clean cloth or blow it off with compressed air at low pressure.
 - We recommend that you clean the product directly after every use.
 - Clean the product at regular intervals using a damp cloth and a little soft soap. Do not use any cleaning products or solvents; they could attack the plastic parts of the product. Make sure that no water can penetrate the interior of the product.

⚠ WARNING

Never use a high-pressure cleaner to clean your product.

The use of high-pressure cleaners shortens the service life and reduces the ease of maintenance.

⚠ WARNING

Improper maintenance or cleaning work can cause injuries

⚠ WARNING

The product may start unexpectedly and cause injuries and burns during cleaning, repair and maintenance work.

- Switch the product off.
- Remove the spark plug connectors (22) from the spark plug (22a).
- Allow the product to cool down.

14.1 Cleaning the V-belt (8a) (Fig 1, 15)

1. Place the product on a level, even surface.
2. Remove the spark plug connector (22) from the spark plug (22a).
3. Support the chassis (12) with wooden blocks, for example, and secure it against rolling away.
4. Loosen and remove the wheel with the brake disc (12a).
5. Remove the belt cover (8) by unscrewing the four hexagonal bolts using a 10 mm open-ended spanner.

6. Clean the transmission elements and the two V-belts (8a) once to twice per year using a brush or compressed air.
7. Re-attach the belt cover (8) and secure it with four hexagonal bolts.
8. Fit the wheel with the brake disc (12a). When installing, ensure that the fixing parts are assembled in the correct order.
9. Remove all the parts you needed to support it underneath.

14.2 Cleaning the fuel filter insert (7b) (Fig. 9)

Note: The petrol filter insert (7b) is a fuel filter insert cup, which is located directly under the fuel cap (7a) and filters all the fuel that is filled in.

1. Screw the tank cover (7a) on.
2. Remove the fuel filter insert (7b). Do not clean it in a flammable solvent or a solvent with a high flash point.
3. Reinsert the fuel filter insert (7b).
4. Retighten the fuel filler cap (7).

14.3 Clean the air filter (Fig. 20)

1. Remove the wing screw (15a) from the air filter cover (15).
2. Lift off the air filter cover (15).
3. Remove the air filter (15b) and tap it gently to remove dust and dirt.
4. Refit all parts in reverse order.

Note: If the air filter is heavily soiled or damaged, it should be replaced.

15. Storage

15.1 Preparation for storage

⚠ WARNING

Do not remove the fuel (7) indoors, near a fire or whilst smoking.

Petrol fumes can cause explosions and fire. If the product will not be used for a period of more than 30 days, the following measures must be taken to prepare it for storage.

- Clean and check the product for damage.
- Drain the fuel tank (7) using a fuel extraction pump*.
- Start the engine (18) and let it run until the remaining fuel has been used up.
- Store fuel in tanks specifically designed for this purpose.
- Change the oil at the end of every season.
- Remove the spark plug cap (22) from the spark plug (22a).

- Store the product in a well-ventilated place or area.
- * may not be included in the scope of delivery!

15.2 Storing the product

- Store the product and its accessories in a dark, dry and frost-free place that is inaccessible to children.
- The optimum storage temperature lies between 5 and 30 °C.
- Store the product in its original packaging.
- Cover the product to protect it from dust or moisture.
- Store the operating manual with the product.

16. Transport

⚠ WARNING

Danger to life when lifting and transporting

Falling loads or parts thereof can kill people.

- Only use lifting and transport equipment, as well as mechanical stops, holders and safety devices in perfect condition to lift the product.
- Before transport, ensure that the load is securely fastened.
- Never stand under a raised load.
- Wear a safety helmet.

16.1 Preparing for transport (Fig. 1)

1. Place the product on a level surface.
2. Close the fuel tap (19).
3. Insert the locking pin (9a).
4. Empty the fuel tank (7) using a petrol extraction pump. (not necessarily included in the scope of delivery).

Warning: Do not remove the petrol in enclosed spaces, near fire or when smoking. Petrol fumes can cause explosions and fire.

5. Remove the spark plug connector (22) from the spark plug (22a).
6. Clean the product.

16.2 Transporting the product (Fig. 1)

- The product can be transported on a van or trailer.
- The product is equipped with lifting handles (14a, 14b, 14c) that can be used both for lifting the machine and for securing it.
- Due to its weight, the product should only be lifted using suitable equipment or by several people working together.

17. Repair & ordering spare parts

After repairs or maintenance, make sure that all safety-related parts are installed and are in perfect condition. All parts which may cause injury must be kept where they are inaccessible to children or others.

Attention: According to the German Product Liability Act, no liability is accepted for damage caused by improper repairs or by not using original spare parts.

Such work should be performed by a customer service centre or an authorised specialist. The same applies to accessory parts.

Spare parts and accessories can be obtained from our Service Centre. To do this, scan the QR code on the front page.

Connections and repairs

Connections and repair work on the electrical equipment may only be carried out by electricians.

Please provide the following information in the event of any queries:

- Type of current for the motor
- Machine data - type plate
- Motor data - type plate

Important note in the case of repairs:

For return delivery of the product for repair, please ensure for safety reasons that it is free of oil and fuel when it is sent to the service centre.

17.1 Ordering spare parts

Please provide the following information when ordering spare parts:

- Model designation
- Item number
- Type plate data

17.2 Service information

With this product, it is necessary to note that the following parts are subject to natural or usage-related wear, or that the following parts are required as consumables.

Wearing parts*: Wheels, V-belts, spark plugs, air filters, protective mats, milling teeth

* may not be included in the scope of delivery!

18. Disposal and recycling

Notes for packaging



The packaging materials are recyclable. Please dispose of packaging in an environmentally friendly manner.

You can find out how to dispose of the disused product from your local authority or city administration.

Fuels and oils

- Before disposing of the device, the fuel tank and the engine oil tank must be emptied!
- Fuel and engine oil do not belong in household waste or drains, but must be collected or disposed of separately!
- Empty oil and fuel tanks must be disposed of in an environmentally friendly manner.

19. Troubleshooting

The following table shows fault symptoms and describes remedial measures in the event of your product failing to work properly. If you cannot localise and rectify the problem with this, please contact your service workshop.

⚠ WARNING

Risk of injury and danger to life when the engine is running due to hot surfaces and rotating parts

- Switch off the product before you start troubleshooting.
- Disconnect the spark plug connector from the spark plug to prevent the engine from restarting.

Fault	Possible cause	Remedy
Engine does not start	No fuel	Fill the fuel tank
	Pull starter defective	Repair or replace the pull starter
	No engine oil	Fill with engine oil
	No ignition spark	Clean or replace the spark plug
	Engine cold and choke set to RUN	Engine cold and choke set to CHOKE
	Fuel tap set to OFF	Set the fuel tap to ON
Engine gets too hot	Not enough engine oil	Refill the engine oil
	Air filter dirty	Clean or replace air filter
	Carburettor incorrectly adjusted	Repair by an authorised service centre
Reduced power	Milling tool blunt	Change milling tool
	V-belt worn out	Replace V-belt
	V-belt slips	Tension V-belt
Excessive vibration	Screws/nuts loose	Switch off the engine immediately! Check that screws/nuts are tight and retighten if necessary
	moving parts damaged	Switch off the engine immediately! Repair by an authorised service centre