

**STIHL RM 443, RM 443 T, RM 448 PC, RM 448 PT
RM 448 T, RM 448 TC, RM 448 TX, RM 448 VC**

STIHL



- EN** Instruction manual
- SK** Návod na obsluhu
- TR** Kullanım kılavuzu
- HU** Használati útmutató
- SR** Uputstvo za upotrebu
- HR** Upute za uporabu
- CS** Návod k použití
- LV** Lietošanas pamācība
- LT** Naudojimo instrukcija
- RO** Instrucțiuni de utilizare
- EL** Οδηγίες χρήσης
- BG** Инструкция за експлоатация
- ET** Kasutusjuhend
- AZ** İstifadə üzrə təlimat
- KK** Пайдаланушының нұсқаулығы

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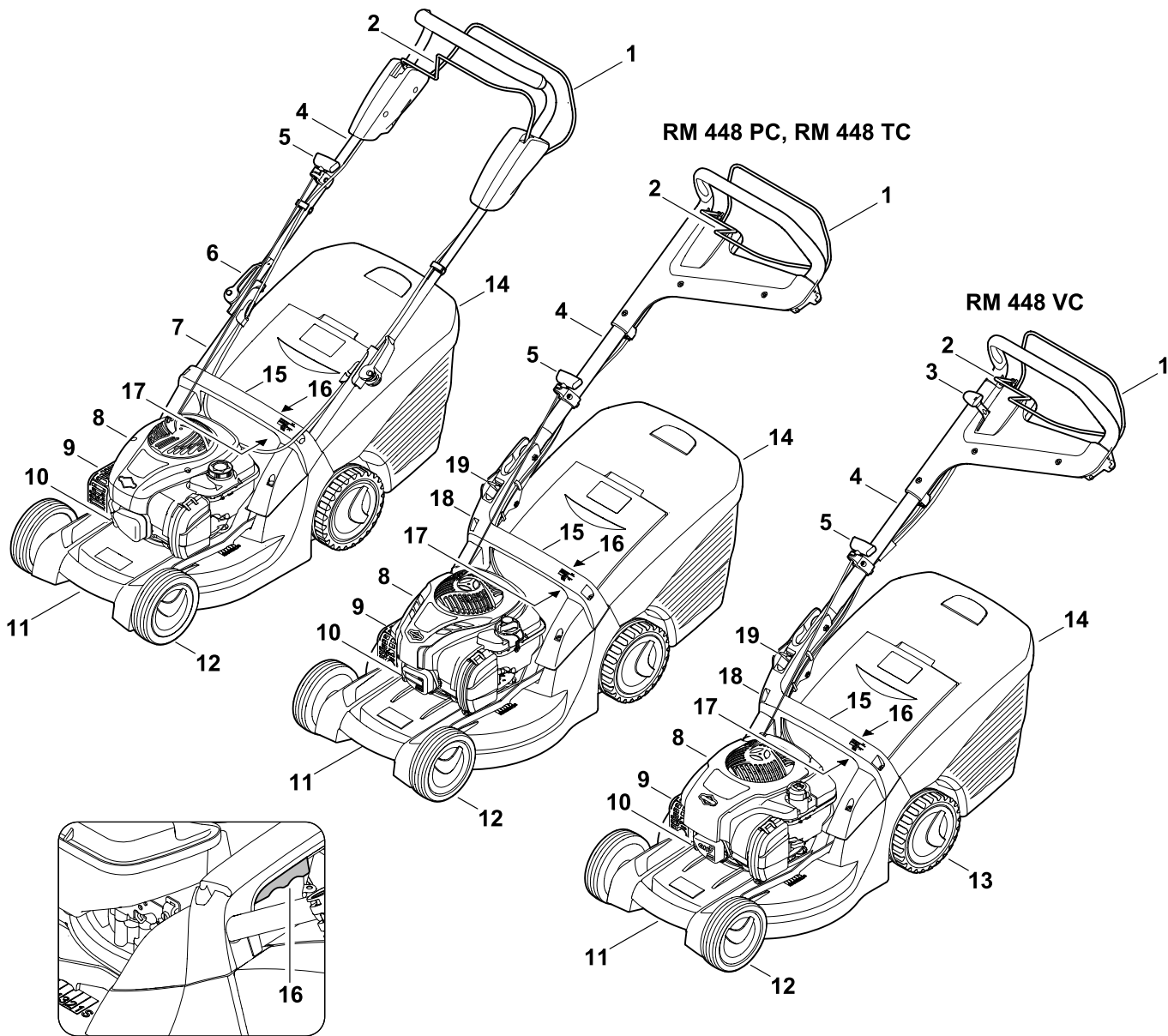
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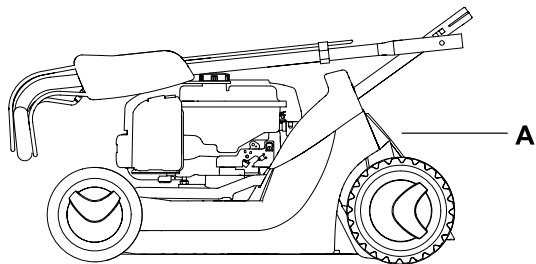
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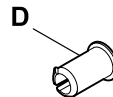
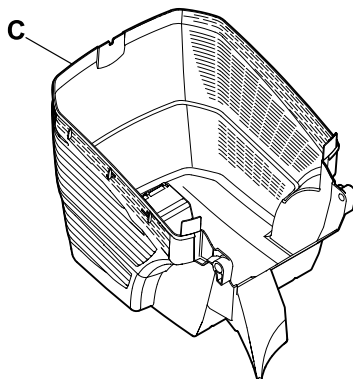
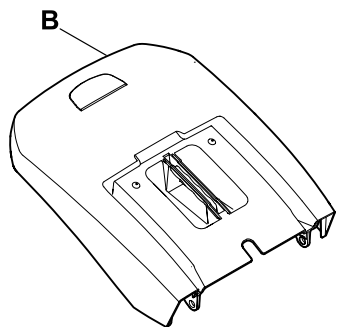
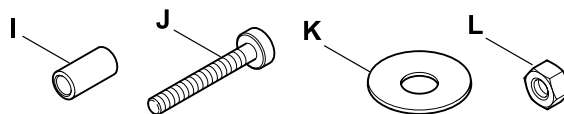
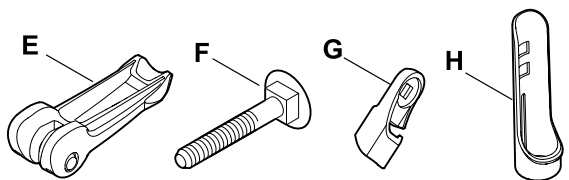
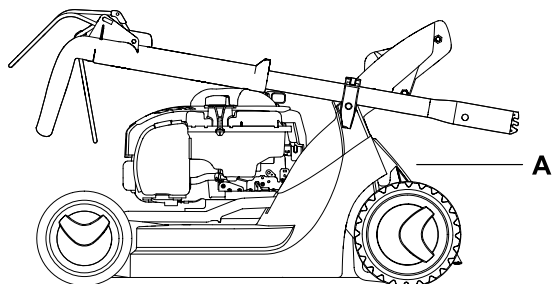
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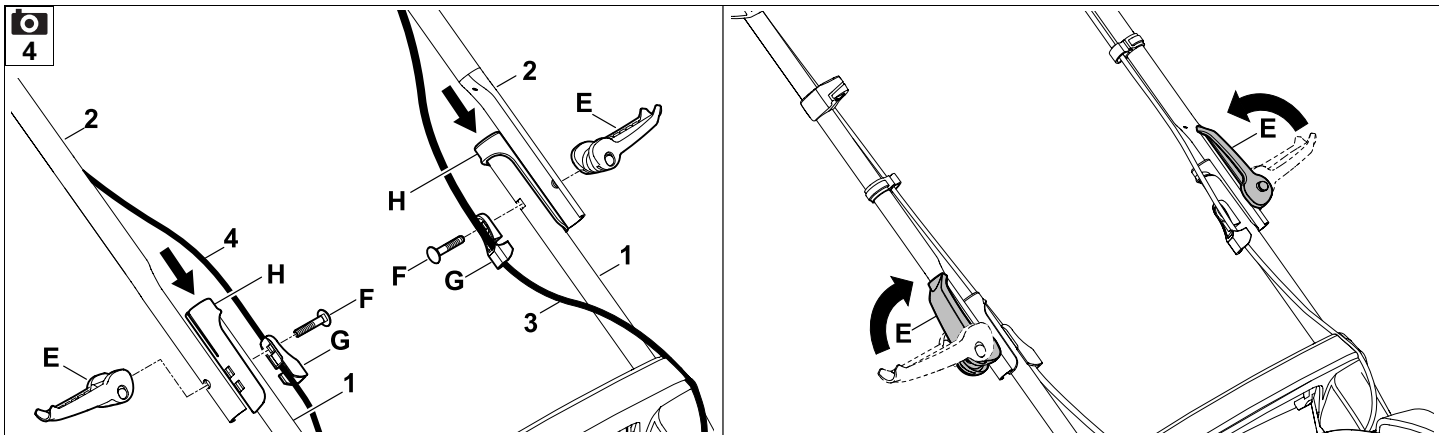
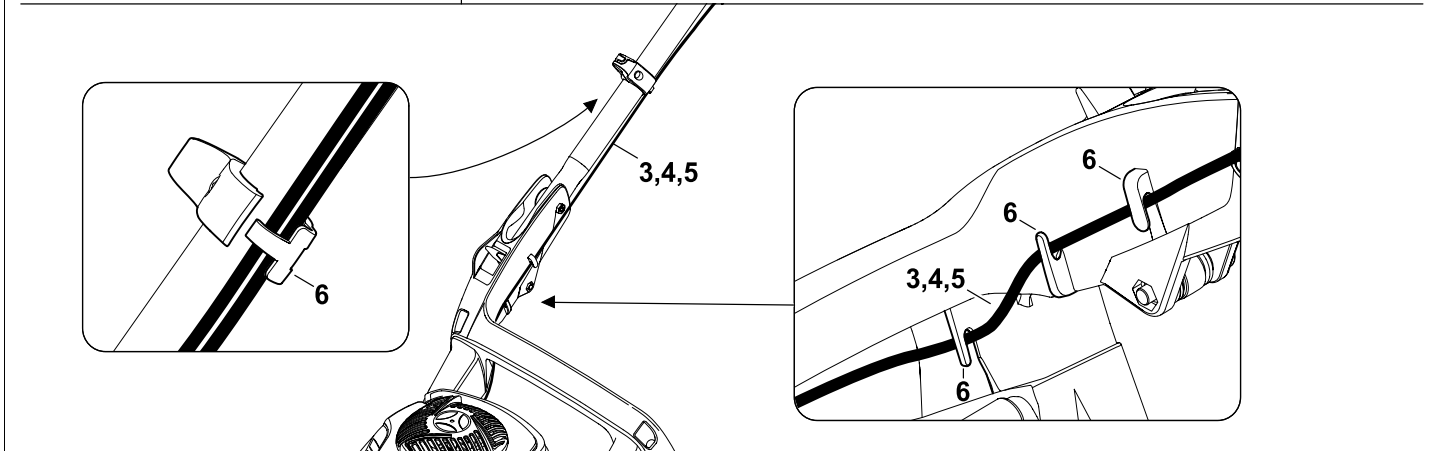
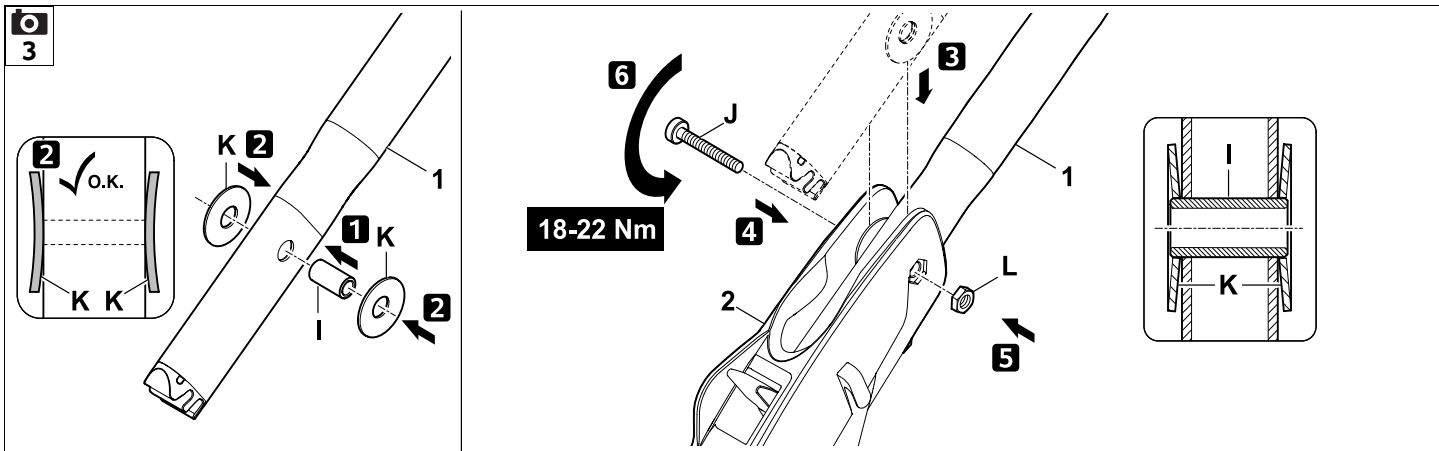


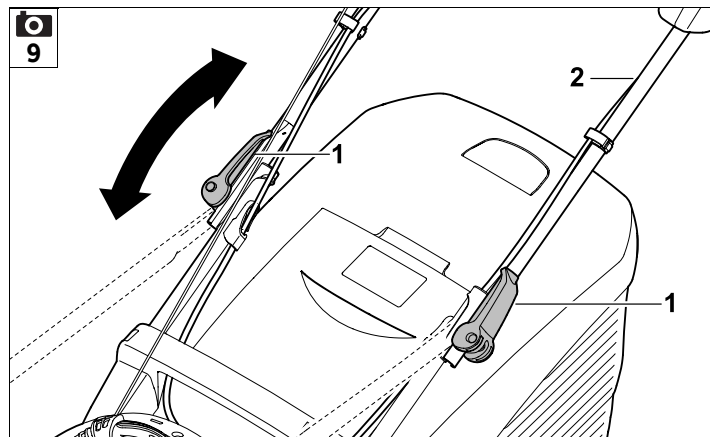
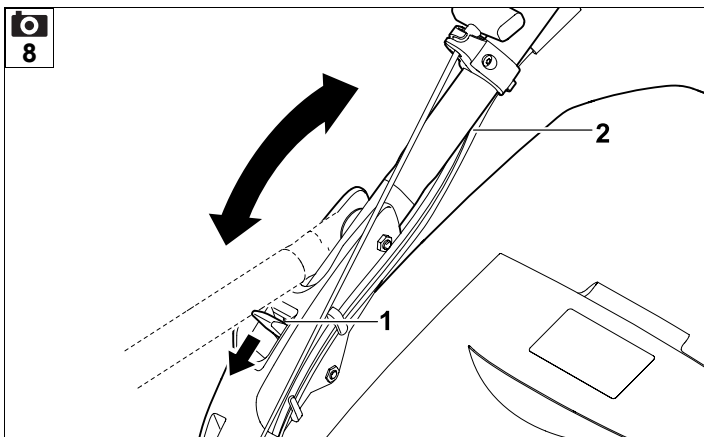
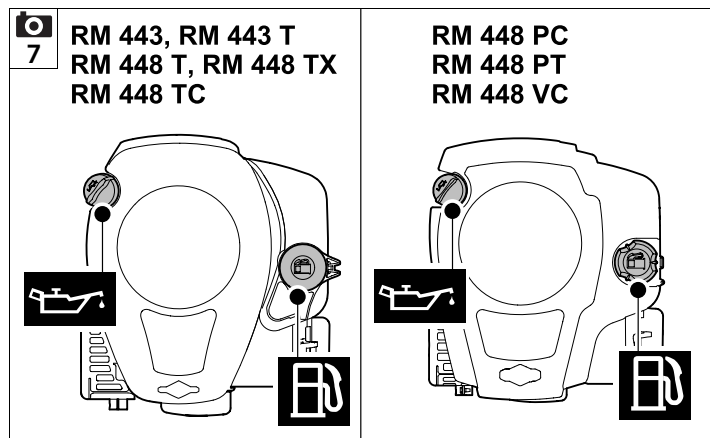
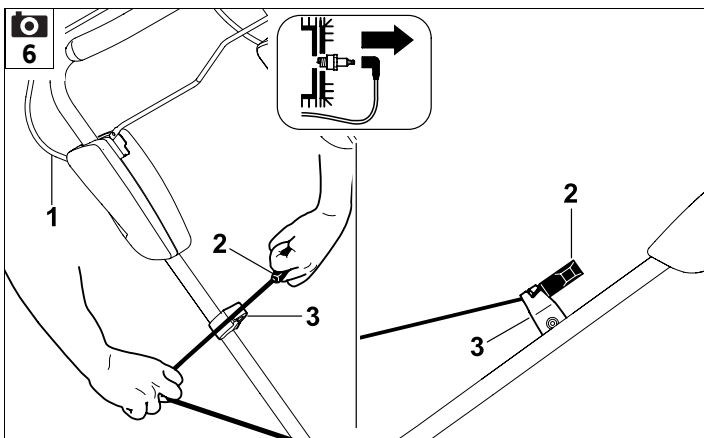
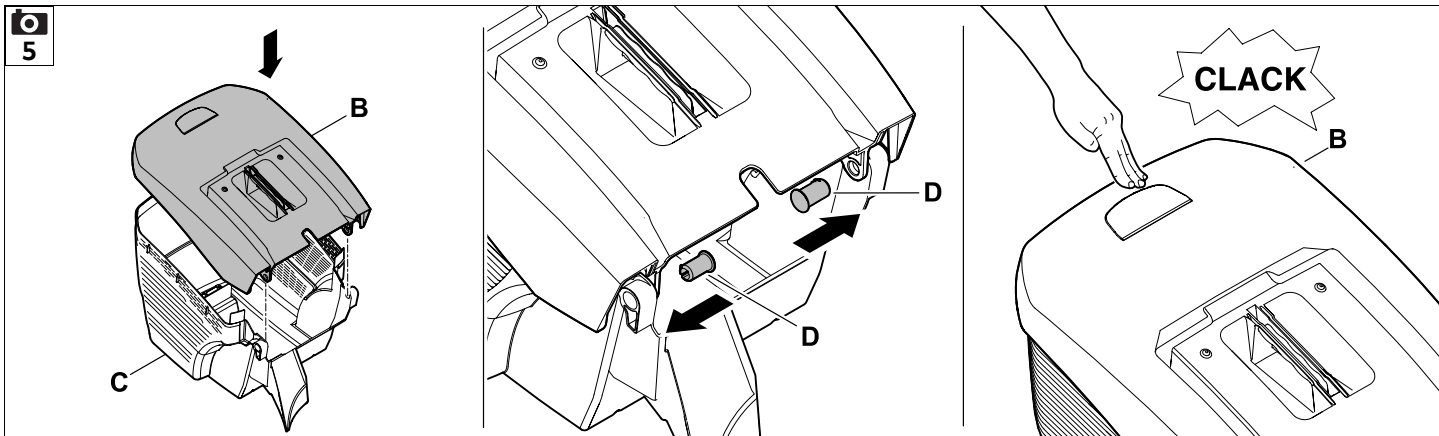
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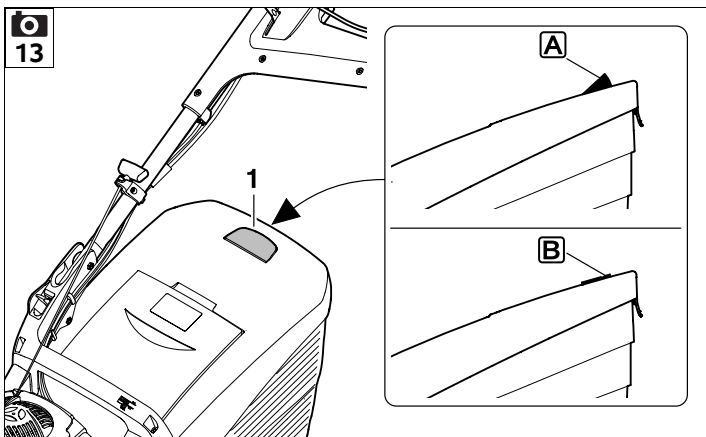
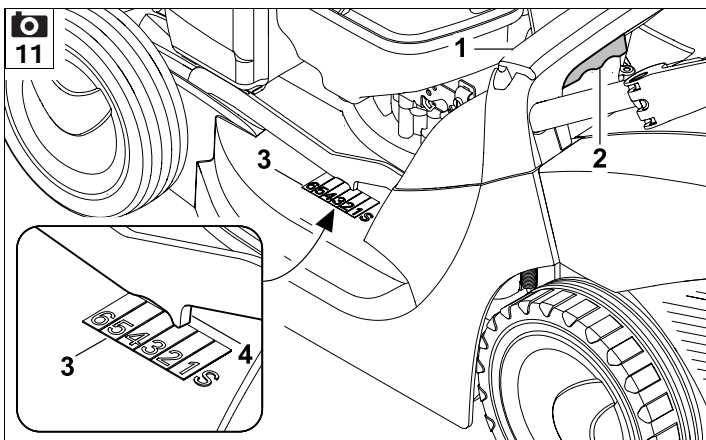
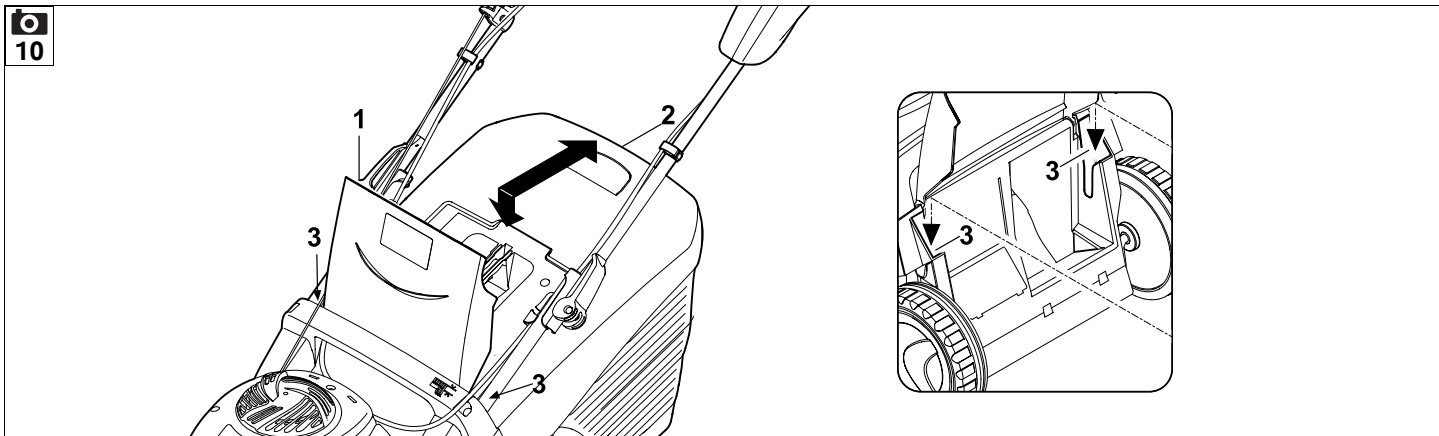


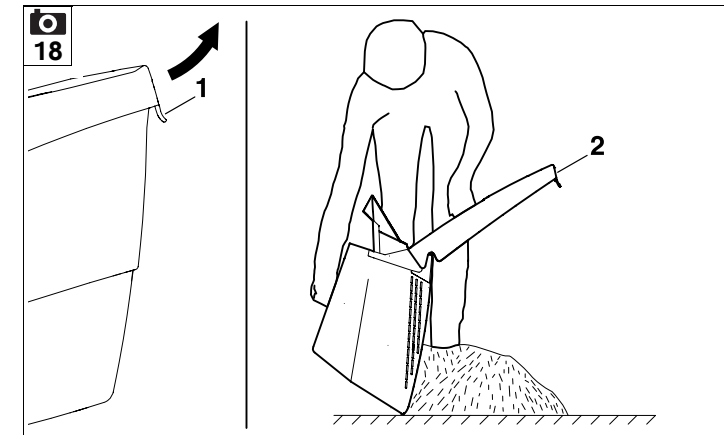
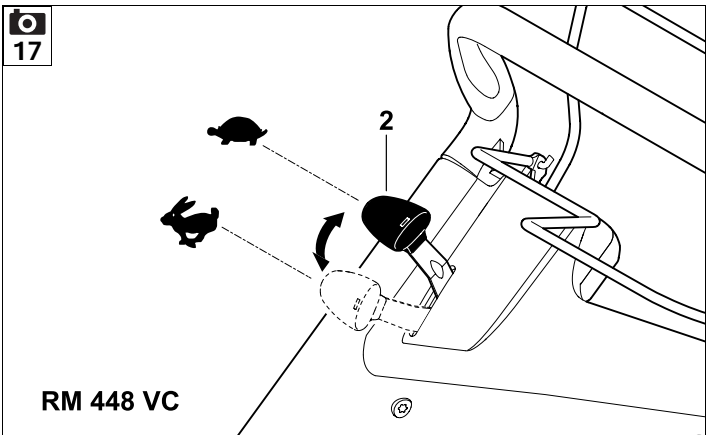
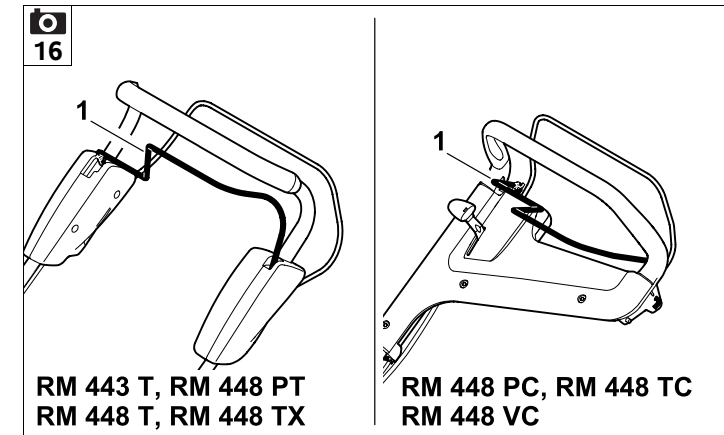
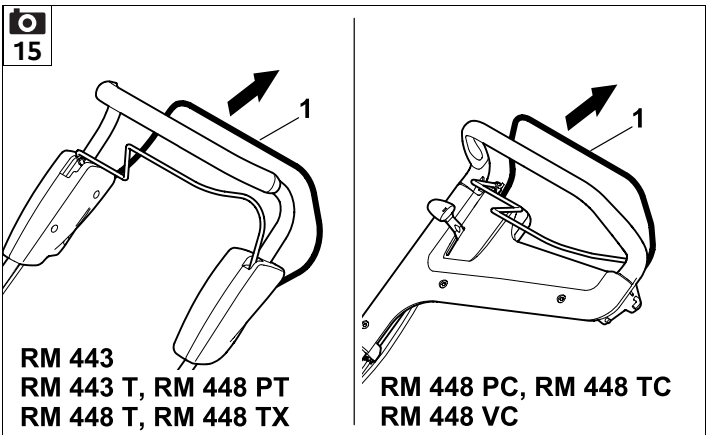
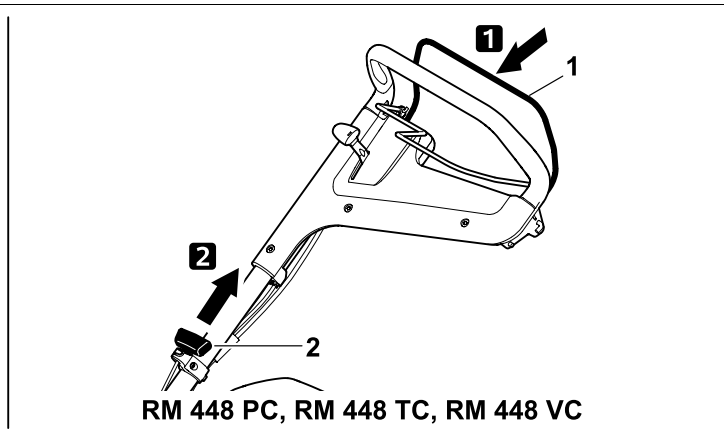
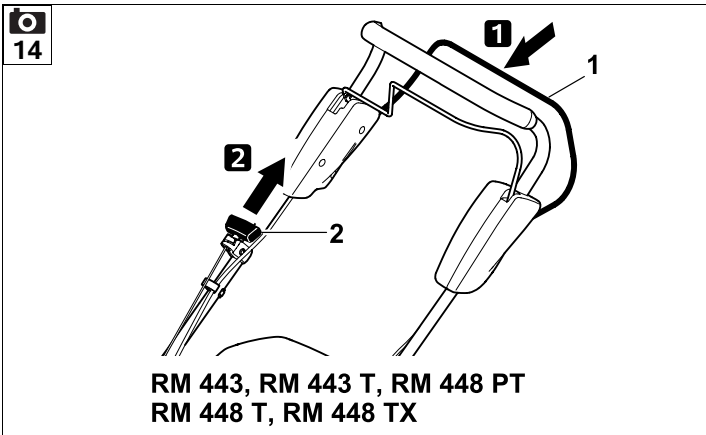
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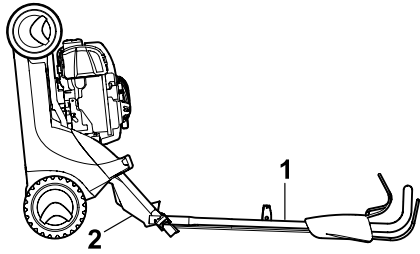




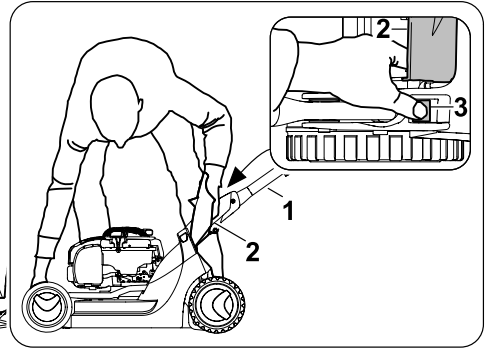
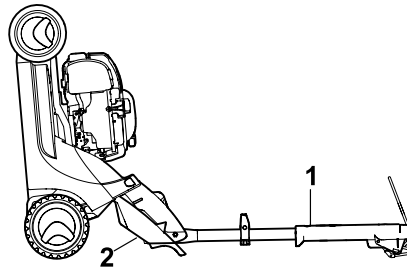


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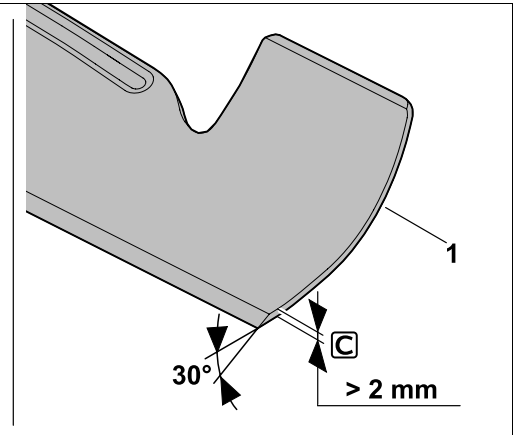
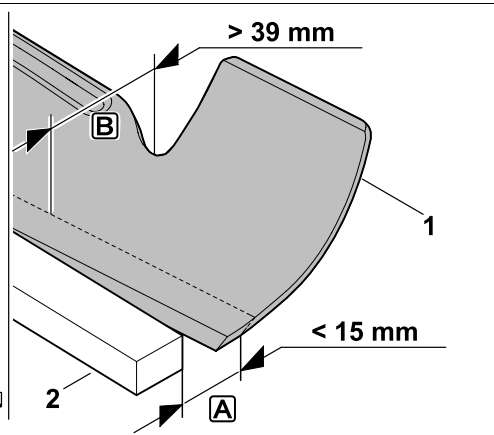
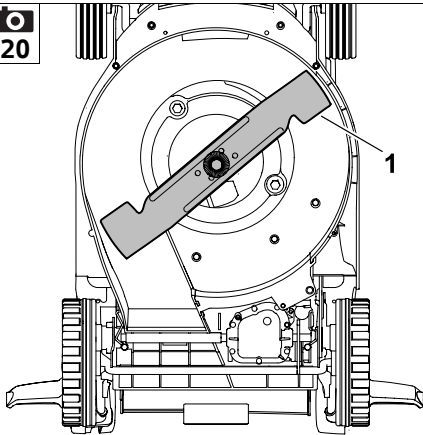
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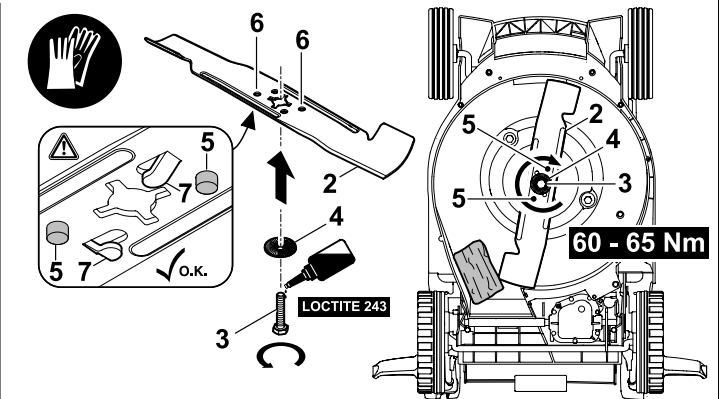
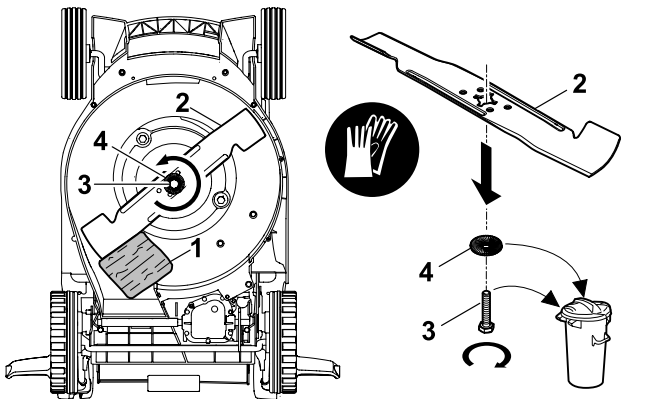
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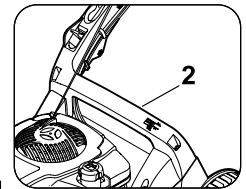
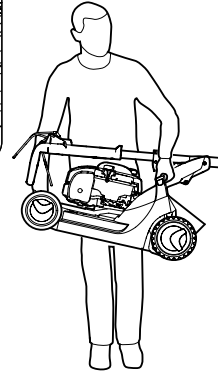
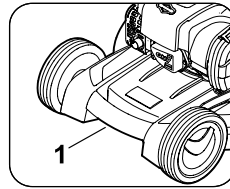
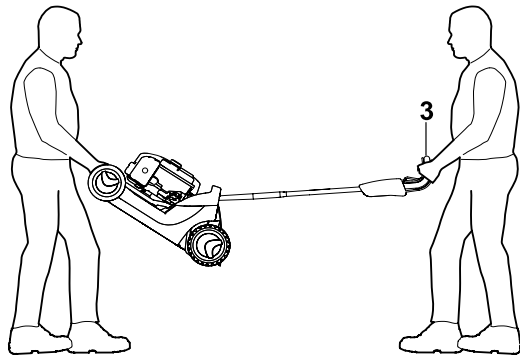
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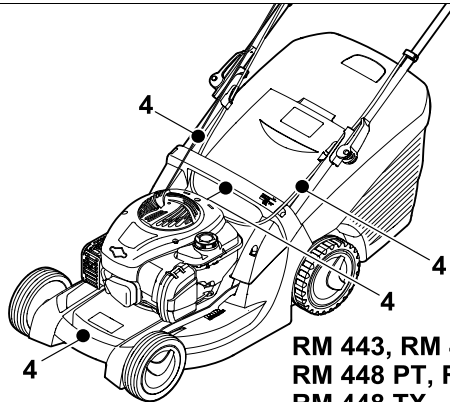
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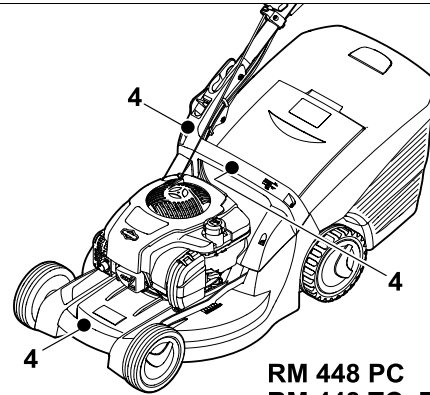
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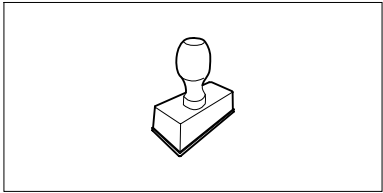


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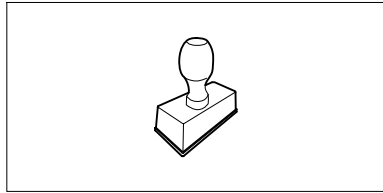
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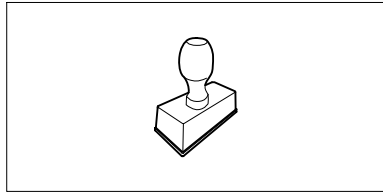
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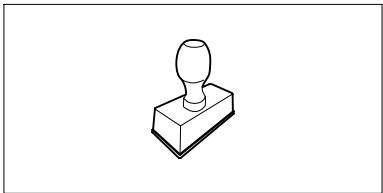
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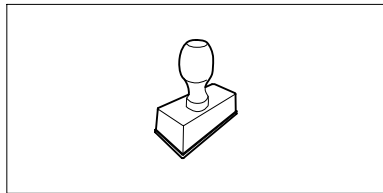
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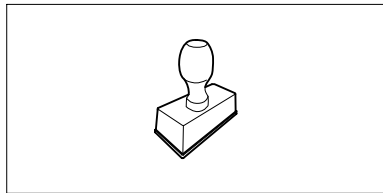
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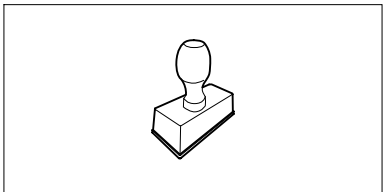
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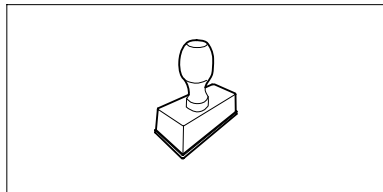
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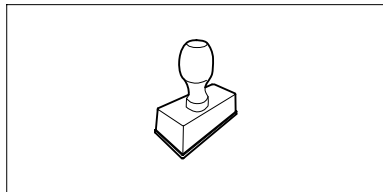
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Dear Customer,

Thank you for choosing STIHL. We develop and manufacture our quality products to meet our customers' requirements. The products are designed for reliability even under extreme conditions.

STIHL also stands for premium service quality. Our specialist dealers guarantee competent advice and instruction as well as comprehensive service support.

We thank you for your confidence in us and hope you will enjoy working with your STIHL product.



Dr. Nikolas Stihl

**IMPORTANT: READ BEFORE USE AND
KEEP IN A SAFE PLACE.**

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2. Notes on the instruction manual

2.1 General

This instruction manual constitutes **original manufacturer's instructions** in the sense of EC Directive 2006/42/EC.

STIHL is continually striving to further develop its range of products; we therefore reserve the right to make alterations to the form, technical specifications and equipment level of our standard equipment.

For this reason, the information and illustrations in this manual are subject to alterations.

This instruction manual may describe models that are not available in all countries.

This instruction manual is protected by copyright. All rights reserved, especially the right of reproduction, translation and processing using electronic systems.

2.2 Instructions for reading the instruction manual

Illustrations and texts describe specific operating steps.

All symbols which are affixed to the machine are explained in this instruction manual.

Viewing direction:

Viewing direction when "**left**" and "**right**" are used in the instruction manual: the user is standing behind the machine and is looking forwards in the direction of travel.

Section reference:

References to relevant sections and subsections for further descriptions are made using arrows. The following example shows a reference to a section: (⇒ 4.)

Designation of text passages:

The instructions described can be identified as in the following examples.

Operating steps which require intervention on the part of the user:

- Release bolt (1) using a screwdriver, operate lever (2)...

General lists:

- Use of the product for sporting or competitive events

Texts with added significance:

Text passages with added significance are identified using the symbols described below in order to especially emphasise them in the instruction manual:



Danger

Risk of accident and severe injury to persons. A certain type of behaviour is necessary or must be avoided.



Warning

Risk of injury to persons. A certain type of behaviour prevents possible or probable injuries.



Caution

Minor injuries or material damage can be prevented by a certain type of behaviour.



Note

Information for better use of the machine and in order to avoid possible operating errors.

Texts relating to illustrations:

Illustrations relating to use of the machine can be found in the front of this instruction manual.

The camera symbol serves to link the figures on the illustration pages with the corresponding text passages in the instruction manual.



3. Machine overview



- 1 Motorstop lever
- 2 Self-propulsion lever (RM 443 T, RM 448 PC, RM 448 PT, RM 448 T, RM 448 TX, RM 448 TC, RM 448 VC)
- 3 Vario drive lever (RM 448 VC)
- 4 Upper handlebar
- 5 Recoil starter rope
- 6 Quick-clamping device (RM 443, RM 443 T, RM 448 PT, RM 448 T, RM 448 TX)
- 7 Lower handlebar (RM 443, RM 443 T, RM 448 PT, RM 448 T, RM 448 TX)
- 8 Engine
- 9 Muffler with protective grille
- 10 Spark plug socket
- 11 Handle, front
- 12 Front wheel
- 13 Rear wheel
- 14 Grass catcher box
- 15 Handle, rear
- 16 Cutting height adjustment lever
- 17 Rating plate with machine number
- 18 Handlebar bracket (RM 448 PC, RM 448 TC, RM 448 VC)
- 19 Handlebar detent lever (RM 448 PC, RM 448 TC, RM 448 VC)

4. For your safety

4.1 General



These safety regulations must be observed when working with the machine.



Read the entire instruction manual before using the machine for the first time. Keep the instruction manual in a safe place for future reference.

Observe the operating and maintenance instructions contained in the separate engine instruction manual.

These safety precautions are essential for your safety, however the list is not exhaustive. Always use the machine in a reasonable and responsible manner and be aware that the user is responsible for accidents involving third parties or their property.

Make sure that you are familiar with the controls and use of the machine.

The machine must only be used by persons who have read the instruction manual and are familiar with operation of the machine. The user should seek expert and practical instruction prior to initial operation. The user must receive instruction on safe use of the machine from the vendor or another expert.

During this instruction, the user should be made aware that the utmost care and concentration are required for working with the machine.

Residual risks persist even if you operate this machine according to the instructions.



Risk of death from suffocation!

Packaging material is not a toy - danger of suffocation! Keep packaging material away from children.

Only give or lend the machine, including any accessories, to persons who are familiar with this model and how to operate it. The instruction manual forms part of the machine and must always be provided to persons borrowing it.

The machine must only be operated by persons who are well rested and in good physical and mental condition. If your health is impaired, you should consult your doctor to determine whether working with the machine is possible. The machine should not be operated after the consumption of alcohol, drugs or medications which impair reactions.

Make sure that the user is physically, sensorily and mentally capable of operating the machine and working with it. If the user is physically, sensorily or mentally impaired, the machine must only be used under supervision or following instruction by a responsible person.

Make sure that the user is of legal age or being trained under supervision in a profession in accordance with national regulations.

The machine is intended for private use.

Caution – risk of accident!

The lawn mower is only intended for mowing lawns. Its use for other purposes is not permitted and may be dangerous or result in damage to the machine.

Due to the physical danger to the user, the lawn mower must not be used for the following applications (incomplete list):

- For trimming bushes, hedges and shrubs.
- For cutting creepers.
- For tending lawn roofs and balcony boxes.
- For shredding or chopping tree or hedge cuttings.
- For clearing paths (vacuuming, blowing).
- For levelling earth mounds, e.g. mole hills.
- For transporting clippings, except in the grass catcher box intended for this purpose.

For safety reasons, any modification to the machine, except the proper installation of accessories approved by STIHL, is forbidden and results in voiding of the warranty cover. Information regarding approved accessories can be obtained from your STIHL specialist dealer.

In particular, any tampering with the machine which increases the power output or speed of the engine or motor is forbidden.

It is not permitted to transport objects, animals or persons, particularly children, on the machine.

Particular care is required during use in public green spaces, parks, sports fields, along roads and in agricultural and forestry businesses.



Caution! Danger to health due to vibrations. Excessive exposure to vibrations can result in damage to the cardiovascular or nervous system,

particularly in persons with cardiovascular problems. Please consult a physician if you experience symptoms that may have

been caused by vibrational loads. Symptoms of this kind principally affect the fingers, hands or wrists and include (incomplete list):

- numbness,
- pain,
- muscular weakness,
- skin discolouration,
- unpleasant tingling sensation.

Hold the handlebar tightly, but not tensed, with both hands in the designated locations during operation.

Plan your working times so that more severe physical strains over a longer period are avoided.

Only release the machine if it is on a level surface and cannot roll away by itself.

4.2 Refilling the tank – handling petrol



Danger to life!

Petrol is poisonous and extremely inflammable.

Petrol must only be stored in appropriate, tested containers (canisters). Always screw on the fuel tank and canister caps properly and tightly. Defective caps must be replaced for safety reasons.

Never use beverage bottles or similar for disposal or storage of fuels and lubricants. Persons, particularly children, could be tempted to drink out of them.



Keep petrol away from sparks, naked flames, pilot lights, heat sources, and other ignition sources. Do not smoke!

Refill the tank out-of-doors and do not smoke during refilling.

Before refilling the tank, stop the engine and allow it to cool.

Refilling with petrol must be performed before the engine is started. When the engine is running or is hot, the tank cap must not be removed and the tank must not be refilled with petrol.

Do not overfill the fuel tank!

To give the fuel room to expand, never fill the fuel tank past the lower edge of the filler neck.

Observe the additional instructions in the engine instruction manual.



If petrol is spilled, the engine must only be started after the petrol-contaminated area has been cleaned. All attempts at starting must be avoided until the petrol fumes have dispersed (wipe dry).

Any spilt fuel must be wiped up immediately.

Clothing must be changed if it comes into contact with petrol.

Never store the machine with petrol in the tank inside a building. The resulting petrol fumes could come into contact with naked flames or sparks and could be ignited.

If it is necessary to drain the tank, this must be done out of doors.

4.3 Clothing and equipment



Always wear sturdy footwear with high-grip soles when working. Never work barefoot or, for example, in sandals.



Also always wear sturdy gloves and tie up and secure long hair (headscarf, cap, etc.) when performing maintenance and cleaning work or when transporting the machine.



Wear suitable safety glasses when sharpening the mowing blade.

Always wear long trousers and tight-fitting clothing when operating the machine.

Never wear loose clothes which may become caught on moving parts (control levers) – do not wear jewellery, ties or scarves.



Noise is produced when working. Noise can damage the hearing.

Wear hearing protection.

4.4 Transporting the machine

Always wear gloves in order to prevent injuries due to sharp-edged and hot components.

Do not transport the machine with the engine running. Switch off the engine, let the blades come to a standstill and remove the spark plug socket prior to transport.

Only transport the machine once the engine has cooled down and with an empty fuel tank.

Use suitable loading aids (loading ramps, lifters).

Secure the machine and any machine components being transported (e.g. grass catcher box) on the load floor using fastening material of adequate size (belts, ropes, etc.).

Avoid contact with the mowing blade when lifting and carrying the machine.

Observe the information in the section "Transport". It describes how to lift and lash the machine. (⇒ 13.)

When transporting the machine, always observe regional legislation, especially regarding load security and the transport of objects on load floors.

4.5 Before operation

Make sure that only persons who are familiar with the instruction manual are permitted to use the machine.

Check the fuel system (particularly visible parts such as e.g. tank, tank cap, hose connections) before operating the machine. In the event of any leaks or damage, do not start the engine – **fire hazard!**

Have the machine repaired by a specialist dealer prior to operation.

Observe the local regulations regarding permitted operating times for gardening power tools with combustion engines or electric motors.

Carefully inspect the complete area on which the machine is to be used and remove any stones, sticks, wires, bones and other foreign objects which could be thrown up by the machine. Obstacles (e.g. tree stumps, roots) can be easily overlooked in long grass.

For this reason, mark all foreign objects (obstacles) which are hidden in the lawn and cannot be removed before commencing work with the machine.

All faulty, worn or damaged parts must be replaced before using the machine. Replace any illegible or damaged danger

signs and warnings on the machine. Your STIHL specialist has a supply of replacement stickers and all the other spare parts.

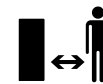
Check secure seating of the spark plug socket on the spark plug before using the machine.

The machine must only be used in good operating condition. Before each use, check whether:

- The machine is properly assembled.
- The cutting tool and the entire cutting unit (mowing blade, fastening elements, mowing deck housing) are in good condition. In particular check for secure fastening, damage (notches or cracks) and wear.(⇒ 12.4)
- The tank cap is properly attached.
- The tank and fuel-carrying parts as well as the tank cap are in good condition.
- The safety devices (e.g. motorstop lever, discharge flap, housing, handlebar, protective grille) are in good condition and working properly.
- The grass catcher box is undamaged and correctly installed; a damaged grass catcher box must not be used.
- The oil closure screw is properly attached.

Carry out any necessary work or consult a specialist dealer. STIHL recommends STIHL specialist dealers.

4.6 Working with your machine



Never work when animals or persons, particularly children, are in the danger area.

The switch and safety devices installed in the machine must not be removed or bypassed. In particular, never secure the motorstop lever to the handlebar (e.g. by tying it).



Caution – risk of injury!

Never put hands or feet on or underneath rotating parts.
Never touch the rotating blade.

Always keep away from the discharge opening.

Always observe the safety distance provided by the handlebar. The handlebar must always be installed correctly and must not be modified. Never operate the machine with the handlebar folded down.

Never attach any objects to the handlebar (e.g. work clothing).

Only work during the day or with good artificial light.

Do not operate the machine in the rain or during thunder storms, particularly when there is a risk of lightning strike.

The risk of accidents is higher if the ground is damp due to increased danger of slipping.
Particular caution should be exercised during working in order to prevent slipping. If possible, avoid using the machine when the ground is damp.

Exhaust gases:



Danger to life through poisoning!

In the case of nausea, headache, impaired vision (e.g. decreasing field of view) hearing disorder, dizziness, decreasing power of concentration, stop working immediately. These symptoms may be caused by excessively high exhaust gas concentrations.



The machine generates poisonous exhaust gases when the engine is running. The gases contain poisonous carbon monoxide, a colourless and odourless gas, as well as other pollutants. The engine must never be operated in closed or poorly ventilated spaces.

Starting:

Exercise care when starting the machine and observe the instructions contained in the section entitled "Operating the machine" (⇒ 11.). Starting the machine in accordance with these instructions reduces the risk of injury.

Risk of injury!

If the starter rope recoils at speed, the hand and arm will be pulled towards the engine faster than the starter rope can be released. This kickback can result in broken bones, crush injuries and sprains.

Keep your feet a safe distance from the cutting tool when starting the machine.

The machine must not be tilted during start-up.

The self-propulsion lever must not be pressed when starting the engine.

Do not start the engine if the discharge chute is not covered by the discharge flap or the grass catcher box.

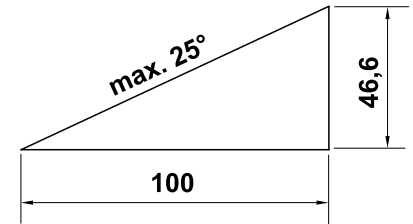
Working on slopes:

Always work across and back on slopes, never up and down.
If the user loses control when mowing up and down, there is a risk of being run over by the machine.

Be particularly careful when changing direction on a slope.

Always ensure good stability on slopes and avoid mowing on excessively steep slopes.

For safety reasons, the machine must not be used on slopes with an inclination of more than 25° (46.6%). **Risk of injury!** A slope inclination of 25° corresponds to a vertical height increase of 46.6 cm for a 100 cm horizontal distance.



In order to ensure an adequate oil supply for the engine, the information in the accompanying engine instruction manual must be additionally observed when using the machine on slopes.

Working:



Risk of injury!

Never place your hands or feet above, underneath or on rotating parts.



Do not attempt to examine the blade while the lawn mower is operating. Never open the discharge flap and/or remove the grass catcher box when the mowing blade is running. Rotating blades can cause injury.

Only operate the machine at walking speed – never run when working with the machine. Working quickly with the machine increases the risk of injury due to stumbling, slipping, etc.

Be particularly careful when turning the machine around or pulling it towards you.

Risk of stumbling!

Use the machine with great care when working near slopes, terraces, ditches and embankments. In particular, ensure that you maintain sufficient distance to such danger areas.

Objects hidden in the turf (lawn sprinkler systems, posts, water valves, foundations, electrical wires, etc.) must be avoided.

Never run over any such foreign objects.



STOP

Beware of the cutting tool running on for several seconds before coming to a standstill.

Switch off the engine, allow the work tool to come to a complete standstill and detach the spark plug socket

- before leaving the machine unattended,
- before re-filling the tank. Allow the engine to cool down before filling the tank.

Fire hazard!

- before remedying blockages, including those in the discharge chute,
- before lifting or carrying the machine,
- before transporting the machine,
- before carrying out any work on the mowing blade,
- before checking or cleaning the machine or before carrying out any other work (e.g. folding down the handlebar) on it,

- after hitting a foreign object or if the lawn mower begins to vibrate excessively. In these cases check the machine, in particular the cutting unit (blade, blade shaft, blade fastening), for damage and carry out the necessary repairs before restarting and working with the machine.



Risk of injury!

Strong vibration is normally an indication of a fault. In particular, the lawn mower must not be operated with a damaged or bent crankshaft or mowing blade. If you do not have the appropriate expertise, have the necessary repairs carried out by a specialist dealer (STIHL recommends STIHL specialist dealers).

Switch off the engine

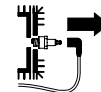
- When pushing the machine to and from the area to be worked.
- Before pushing the machine onto an area not covered with grass.
- Before opening the discharge flap or removing the grass catcher box.
- When the machine has to be tilted for transportation.
- Before adjusting the cutting height.

4.7 Maintenance and repairs

Before beginning cleaning, adjustment, repair and maintenance operations:

- Park the machine on firm and level ground
- Stop the engine and allow it to cool down

- Detach the spark plug socket.



Caution – risk of injury!

Keep the spark plug socket away from the spark plug; an inadvertent ignition spark can result in fires or electric shocks.

Inadvertent contact between the spark plug and the spark plug socket can result in unwanted starting of the engine.



Risk of injury due to the mowing blade!

Pulling the recoil starter rope starts the work tool rotating. Always ensure sufficient distance between the mowing blade and your body, particularly your hands and feet, when you pull the recoil starter rope.

Allow the machine to cool down before working on or around the engine, exhaust manifold or muffler in particular. Temperatures of 80° C and above can be reached. **Danger of burns!**

Direct contact with engine oil can be dangerous. Engine oil must not be spilled. STIHL recommends leaving the task of topping up engine oil or performing engine oil changes to a STIHL specialist dealer.

Cleaning:

The complete machine must be cleaned thoroughly following use. (⇒ 12.3)

Empty the fuel tank (e.g. by running it empty) before placing the machine in the cleaning position.

Remove accumulated clipping deposits using a stick. Clean the underside of the mower with water and a brush.

Never use high-pressure cleaners and do not clean the machine under running water (e.g. using a garden hose).

Do not use aggressive cleaning agents. These can damage plastics and metals, impairing the safe operation of your STIHL machine.

In order to prevent fire hazards, keep the area around the air vents, cooling ribs and the area of the exhaust free from e.g. grass, straw, moss, leaves or escaping grease.

Maintenance operations:

Only maintenance operations described in this instruction manual may be carried out. Have all other work performed by a specialist dealer.

If you do not have the necessary expertise or auxiliary equipment, please **always** contact a specialist dealer.

STIHL recommends that you have maintenance operations and repairs performed exclusively by a STIHL specialist dealer.

STIHL specialist dealers regularly attend training courses and are provided with technical information.

Only use tools, accessories or attachments approved for this machine by STIHL or technically identical parts.

Otherwise, there may be a risk of accidents resulting in personal injury or damage to the machine. If you have any questions, please consult a specialist dealer.

The characteristics of original STIHL tools, accessories and spare parts are optimally adapted to the machine and the user's requirements. Genuine STIHL spare parts can be recognised by the STIHL spare parts number, by the STIHL lettering and,

if present, by the STIHL spare parts symbol. On smaller parts, only the symbol may be present.

For safety reasons, fuel-carrying components (fuel line, fuel cock, fuel tank, tank cap, connections, etc.) must be checked regularly for damage and leaks and replaced by a technician if necessary (STIHL recommends STIHL specialist dealers).

Always keep warning and information stickers clean and readable. Damaged or missing stickers must be replaced by new, original plates from your STIHL specialist dealer. If a component is replaced with a new component, ensure that the new component is provided with the same stickers.

Only perform work on the cutting unit when wearing thick work gloves and exercising extreme care.

Ensure that all nuts, pins and screws (in particular the blade fastening screw) are securely tightened so that the machine is in a safe operating condition.

Check the complete machine and the grass catcher box for wear or damage on a regular basis, particularly before extended periods when the machine is not in use (e.g. over winter). For safety reasons, worn or damaged parts must be replaced immediately to ensure that the machine is always in a safe operating condition.

Never alter the basic setting of the engine or run at excessive engine speeds.

Components or guards that are removed for maintenance operations must be properly reinstalled immediately.

4.8 Storage for prolonged periods without operation

Allow the engine to cool before storing the machine in an enclosed space.

Store the machine with empty fuel tank and the fuel reserve in a lockable and well-ventilated room.

Ensure that the machine is protected from unauthorised use (e.g. by children).

Never store the machine with petrol in the tank inside a building. The resulting petrol fumes could come into contact with naked flames or sparks and could be ignited.

If the tank has to be emptied (e.g. to store the machine before the winter break), this should only be done out of doors (e.g. by running the tank empty).

Thoroughly clean the machine before storage (e.g. winter break).

Only store the machine with the spark plug socket disconnected.

Store the machine in good operational condition.

Allow the machine to cool down completely before covering it.

Store the machine on a level surface so that it cannot unintentionally roll away.

4.9 Disposal

Waste products such as used engine oil or fuel, used lubricants, filters, batteries and similar wearing parts can be harmful to people, animals and the environment, and must consequently be disposed of properly.

Consult your recycling centre or your specialist dealer for information on the proper disposal of waste products. STIHL recommends STIHL specialist dealers.

Ensure that old machines are properly disposed of. Render the machine unusable prior to disposal. In order to prevent accidents, remove the ignition lead, empty the fuel tank and drain the engine oil in particular.

Risk of injury due to the mowing blade!

Always store an old lawn mower in a safe place prior to scrapping. Ensure that the machine and particularly the mowing blade are kept out of the reach of children.

5. Description of symbols



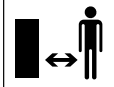
Caution!

Read the instruction manual before initial use.



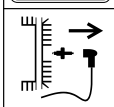
Risk of injury!

Keep other persons out of the danger area.



Risk of injury!

Detach the spark plug socket before performing work on the cutting tool or maintenance and cleaning work.



Risk of injury!

Keep your hands and feet away from the blades.



Cutting tool runs on for several seconds after switching off (engine/blade brake).



RM 443, RM 443 T,
RM 448 PT, RM 448 T,
RM 448 TX:

Starting the engine



RM 443, RM 443 T,
RM 448 PT, RM 448 T,
RM 448 TX:

Stopping the engine



RM 443 T, RM 448 PT,
RM 448 T, RM 448 TX:

Switching on self-propulsion



RM 448 PC, RM 448 TC,
RM 448 VC:

Starting the engine



RM 448 PC, RM 448 TC,
RM 448 VC:

Stopping the engine



RM 448 PC, RM 448 TC,
RM 448 VC:

Switching on self-propulsion



RM 448 VC:

Set the driving speed.
(⇒ 11.3)



6. Standard equipment



Item	Designation	Qty.
A	Basic unit	1
B	Upper part of grass catcher box	1
C	Lower part of grass catcher box	1
D	Pin	2
–	Instruction manual	1
–	Instruction manual for engine	1
RM 443, RM 443 T, RM 448 PT, RM 448 T, RM 448 TX:		
Item	Designation	Qty.
E	Quick-clamping device	2
F	Bolt	2
G	Cable guide	2
H	Protective sleeve	2

RM 448 PC, RM 448 TC, RM 448 VC:

Item	Designation	Qty.
I	Sleeve	1
J	Bolt	1
K	Washer	2
L	Nut	1

7. Preparing the machine for operation

7.1 General



Risk of injury!

Observe the safety instructions in the section "For your safety" (⇒ 4.).

- Place the machine on level and firm ground when performing all the operations described.

7.2 Installing the mono handlebar (RM 448 PC, RM 448 TC, RM 448 VC)



- **1** Insert sleeve (I) in the bore on handlebar (1).
- **2** Fit the two washers (K) with the convex side facing inwards onto the sleeve in handlebar (1).
- **3** Hold sleeve (I) and washers (K) and insert together with handlebar (1) into the holder on handlebar bracket (2).
- **4** Insert bolt (J) from the outside inwards through the bores in handlebar (1) and in handlebar bracket (2).
- **5** Screw on nut (L).
- **6** Tighten bolt (J). Tightening torque: **18 - 22 Nm**

Installing the cables:

- RM 448 PC, RM 448 TC:
Route motorstop cable (3) and self-propulsion cable (4) into cable guides (6) of the handlebar bracket and handlebar.
- RM 448 VC:
Route motorstop cable (3), self-propulsion cable (4) and Vario drive cable (5) into cable guides (6) of the handlebar bracket and handlebar.

7.3 Installing the dual handlebar (RM 443, RM 443 T, RM 448 PT, RM 448 T, RM 448 TX)



- Fit protective sleeves (H) onto the two lower handlebars (1).
- Insert bolt (F) through the bore in cable guide (G).
- Fit upper handlebar (2) onto lower handlebar sections (1).
- Left-hand side:
Attach cable guide (G) to motorstop cable (3).
- Right-hand side (RM 443 T, RM 448 PT, RM 448 T, RM 448 TX):
Attach cable guide (G) to self-propulsion cable (4).
- Insert bolt (F) from the outside inwards through the bores on both sides.
- Screw quick clamping devices (E) onto bolts (F) (the screw should project by about one screw thread turn) and fold upwards.

- Check correct assembly:
Quick-clamping devices (E) must be sufficiently tightened so that they are pressed tightly against the handlebar and the upper handlebar is firmly connected to the lower handlebar. If the handlebar is not firmly installed or the quick-clamping devices are not correctly located, open the quick-clamping devices and turn them until they are securely fastened.

7.4 Assembling the grass catcher box



- Fit the upper part of the grass catcher box (B) onto the lower part of the grass catcher box (C). Ensure correct location in the guides.
- Push pin (D) through the bores provided from inside.
- Allow the upper part of the grass catcher box (B) to engage in the lower part of the grass catcher box using slight pressure.
- Attach the grass catcher box (⇒ 8.3).

7.5 Attaching and detaching the recoil starter rope



Attaching

- Detach the spark plug socket from the engine.
- Press motorstop lever (1) to the handlebar and hold.
- Slowly pull out recoil starter rope (2).
- Release motorstop lever (1) and attach recoil starter rope (2) to rope guide (3).
- Connect the spark plug socket.

Detaching

- Detach the spark plug socket from the engine.
- Detach recoil starter rope (2) from rope guide (3).

7.6 Fuel and engine oil



Avoid damage to the machine

Top up engine oil before starting for the first time. Use a suitable filling aid when topping up the engine oil and when refuelling (e.g. funnel).

Engine oil:

Please consult the engine instruction manual for the type of engine oil to be used and the oil capacity. Check the oil filling level at regular intervals (see engine instruction manual). Avoid exceeding or falling below the correct oil level.

Screw on the oil tank cap properly before operating the engine.



Fuel:

Recommendation:
Fresh good quality fuels,
unleaded petrol.

Please consult the engine instruction manual for details on the fuel quality (octane rating).



8. Controls

8.1 Adjusting the mono handlebar (RM 448 PC, RM 448 TC, RM 448 VC)



Danger of pinching!

When actuating the detent lever, always hold the upper handlebar with one hand at its highest point. Never place your fingers between the handlebar and bracket (above and below the detent lever).

Folding down handlebar:

Transport position (for cleaning, for space-saving transport and for storage of the machine):

- Detach the recoil starter rope from the rope guide. (⇒ 7.5)
- Hold the upper handlebar (2) with one hand at its highest point and lift (relieve load) slightly.
- Press the detent lever (1) downwards and hold.
- Fold down handlebar (2) forwards.

Working position

 (to push machine):

- Fold the handlebar (2) up rearwards and ensure that the handlebar is fully engaged.
- Attach the recoil starter rope at the rope guide. (⇒ 7.5)

Height adjustment:

The height of the mono handlebar can be adjusted to 2 levels:

- Hold the upper handlebar (2) with one hand at its highest point and lift (relieve load) slightly.
- Press the detent lever (1) downwards and hold.
- Move the handlebar (2) into the required position.
- Release the detent lever (1) and ensure that the handlebar is again fully engaged.

8.2 Folding down the dual handlebar (RM 443, RM 443 T, RM 448 PT, RM 448 T, RM 448 TX)



Danger of pinching!

The upper handlebar can be folded down by releasing the quick-release caps. For this reason, always hold the upper handlebar (2) with one hand at its highest point when you open the quick-release caps.

Transport position (for cleaning, for space-saving transport and for storage of the machine):

- Detach the recoil starter rope from the rope guide. (⇒ 7.5)
- Open the quick-clamping devices (1) – fold downwards – and fold down upper handlebar (2) forwards.

Working position

 (to push machine):

- Fold up the upper handlebar (2) rearwards and hold with one hand.
- Close quick-clamping devices (1) (fold upwards).

- Attach the recoil starter rope at the rope guide. (⇒ 7.5)

8.3 Grass catcher box



Attaching:

- Open the discharge flap (1) and hold it open.
- Attach the grass catcher box (2) to the mountings (3) on the rear of machine by means of the locating lugs.
- Close the discharge flap (1).

Detaching:

- Open the discharge flap (1) and hold it open.
- Lift the grass catcher box (2) and remove it rearwards.
- Close the discharge flap (1).

8.4 Central cutting height adjustment



Six different cutting heights can be set.

Level 1 = 25 mm

Level 6 = 75 mm

Setting the cutting height:

- Hold the handle (1), pull the lever (2) upwards and hold.
- Set the required cutting height by moving the machine upwards and downwards. The current cutting height can be read off at the cutting height indicator (3) by means of the marking (4).

- Release the detent lever (2) and allow it to engage.

8.5 Level indicator



The flow of air generated by the blade raises level indicator (1). The flow of air stops when the grass catcher box is full. If the flow of air is too low, level indicator (1) returns to its resting state. This is a prompt to empty the grass catcher box.

The functionality of the level indicator is restricted if the flow of air is impaired. External influences such as wet, dense or high grass, low cutting levels, contamination or the like can impair the flow of air and the functionality of the level indicator.

Grass catcher box is being filled

Grass catcher box is filled

- Empty the filled grass catcher box (⇒ 11.4).

9. Safety devices

The machine is equipped with several safety devices for safe operation and for the prevention of improper use.



Risk of injury!

If a safety device is found to be defective, the machine must not be operated. Consult a specialist dealer; STIHL recommends STIHL specialist dealers.

9.1 Safety devices

The lawn mower is equipped with safety devices, which prevent inadvertent contact with the mowing blade and with ejected clippings.

These include the housing, discharge flap, grass catcher box and correctly installed handlebar.

9.2 Motorstop lever

The lawn mower is equipped with a motorstop device.

The engine stops when the motorstop lever is released during running operation. The engine and blade come to a standstill within 3 seconds.



Risk of injury!

If the run-on time of the blade exceeds this delay, stop using the machine and take it to your specialist dealer.

Measuring the run-on time

Following engine start-up, the blade rotates and a wind noise is audible. The run-on time corresponds to the duration of the wind noise after the engine stops. This can be measured using a stopwatch.

10. Notes on working with the machine

A perfect, thick lawn is achieved by

- Mowing at low driving speeds.
- Mowing regularly and keeping the grass short.

- Not cutting the lawn too short in hot, dry conditions as it will be burnt by the sun and become unsightly.
- Using a sharp mowing blade – mowing blade should therefore be sharpened regularly (specialist dealer).
- Changing the cutting direction regularly.

10.1 Working area for operator




- For safety reasons, the operator must stay within the working area behind the handlebar when starting the engine and when the engine is running. Always observe the safety distance provided by the handlebar.
- The lawn mower must only be operated by one person. Other persons must keep out of the danger area. (⇒ 4.)

11. Operating the machine

11.1 Starting the engine



 Do not start the engine in tall grass. Select a higher cutting height setting if the engine is difficult to start.

Thanks to the fixed throttle setting, the engine always operates at the optimum working speed after starting.

- Press motorstop lever (1) to the handlebar and hold.

- Slowly pull out recoil starter rope (2) to the point of compression resistance. Then pull vigorously and quickly to arm's length. Slowly return recoil starter rope (2) again so that it is rolled up again.
- Repeat the procedure until the engine starts.

11.2 Stopping the engine



- To stop the engine, release motorstop lever (1). Engine and mowing blade come to a stop after a short run-down time.

11.3 Self-propulsion (RM 443 T, RM 448 PC, RM 448 PT, RM 448 T, RM 448 TX, RM 448 TC, RM 448 VC)



The lawn mowers RM 443 T, RM 448 PC, RM 448 PT, RM 448 T, RM 448 TX, RM 448 TC and RM 448 VC are equipped with self-propulsion.

RM 443 T, RM 448 PC, RM 448 PT, RM 448 T, RM 448 TX, RM 448 TC:

One forward drive speed (single-speed gearbox)

RM 448 VC:

Continuously variable forward drive speed when driving (Vario gearbox)

Switching on self-propulsion:

- Start the engine. (⇒ 11.1)
- Pull self-propulsion lever (1) to the handlebar and hold. Self-propulsion is switched on and the lawn mower moves forwards.



Avoid damage to the machine!
Always actuate the self-propulsion lever fully (to the stop) in order to prevent resultant damage to the gearbox.

Setting the drive speed (RM 448 VC):



Avoid damage to the machine!
Only actuate Vario drive lever (2) when the engine is running.

- Increasing the driving speed: Push Vario drive lever (2) forwards when driving.
- Reducing the driving speed: Pull Vario drive lever (2) rearwards when driving.



Switching off self-propulsion:

- Release self-propulsion lever (1). Self-propulsion is switched off and the lawn mower comes to a standstill. The engine continues to run.

11.4 Emptying the grass catcher box



Risk of injury!
For safety reasons, the engine must be stopped before removing the grass catcher box.

- Detach the grass catcher box. (⇒ 8.3)
- Open the grass catcher box at the tab (1). Fold up the upper part of the grass catcher box (2) and hold. Fold the grass catcher box rearwards and empty the clippings.
- Close the grass catcher box.
- Attach the grass catcher box. (⇒ 8.3)

12. Maintenance

12.1 General



Risk of injury!

Observe the safety instructions in the section "For your safety" (⇒ 4.).

Annual service by the specialist dealer:

The lawn mower should be inspected once annually by a specialist dealer. STIHL recommends STIHL specialist dealers.

12.2 Engine

Maintenance interval:

See engine instruction manual.

General information:

Observe the operating and maintenance instructions contained in the attached engine instruction manual.

To achieve a long service life, it is always particularly important to maintain a sufficient level of oil and to change the oil and air filter regularly.

The recommended oil change intervals as well as information on engine oil and oil capacities can also be found in the engine instruction manual.

The cooling ribs must always be kept clean to ensure that the engine is adequately cooled.

12.3 Cleaning the machine

Maintenance interval: After each use



Care of the machine will protect it against damage and extend its service life.



Risk of injury!

Stop the engine, detach the spark plug socket and allow the machine to cool down.

Empty the fuel tank (run empty) before placing the machine in the cleaning position.

The machine is only safely in the cleaning position when the discharge flap is open.

- Select the highest cutting level. (⇒ 8.4)
- Detach the grass catcher box. (⇒ 8.3)

Cleaning position RM 443, RM 443 T, RM 448 PT, RM 448 T, RM 448 TX:

- Hold upper handlebar (1) and open the quick-clamping devices – fold downwards.
- Set down upper handlebar (1) rearwards.
- Open discharge flap (2) and hold it open.
- Lift up the machine at the front and place in the cleaning position as shown.

Cleaning position RM 448 PC, RM 448 TC, RM 448 VC:

- Stand to the right of the machine to tilt it upwards.
- Set the upper handlebar to the lowest position (as far as the stop, the detent lever does not engage in this position). (⇒ 8.2)

- Open discharge flap (2) with the right hand and hold it open.
- Hold the bracket with the left hand as shown and hold the discharge flap open. Press detent lever (3) with the thumb at the same time and hold.
- Hold the machine with the right hand at the front handle and tilt it slowly rearwards until the handlebar is in contact with the ground as shown.
- Release discharge flap (2) and detent lever (3) and check that the machine is standing securely.

Notes on cleaning:

- Clean off dirt using little water, with a brush or with a cloth. In particular, also clean the mowing blade. Never spray water onto engine components, seals or bearing points.
- First, remove accumulated clipping deposits using a stick.
- If necessary, use a special cleaner (e.g. STIHL special cleaner).

12.4 Checking blade wear



Maintenance interval: Before each use



Risk of injury!

Blades are subjected to differing degrees of wear depending on the location and duration of use. If you use the machine on sandy ground or use it frequently under dry conditions, the blade will be subjected to greater loads and will wear more quickly than the average. A worn blade may break off and cause serious injuries. The instructions for blade maintenance must therefore always be observed.

- Tilt the mower upwards into the cleaning position. (⇒ 12.3)
- Clean the mowing blade (1).
- Place a ruler (1) against the front blade edge and measure permissible grinding **A**.
- Measure blade width **B** using a slide calliper (2).
- Check blade thickness **C** at 5 points at least using a slide calliper (2). In particular, minimum thickness must also be ensured in the area of the blade wings.

Wear limits:

Permissible grinding **A**: < 15 mm

Blade width **B**: > 39 mm

Blade thickness **C**: > 2 mm

The blade must be replaced,

- if it is damaged (notches, cracks),

- if the measured values are achieved at one or more points or are outside the permissible limits.

If the multi-blade available as a special accessory is installed on the lawn mower, different wear limits apply (see instruction manual for accessory).

12.5 Removing and installing the mowing blade



Removing:

- Use a suitable wooden block (1) to counterhold mowing blade (2).
- Unscrew the blade fastening screw (3). Remove the mowing blade (2), blade fastening screw (3) and retaining washer (4).

Installation:



Risk of injury!

The mowing blade (2) must only be installed as shown. The tabs (7) must face downwards and the curved wings must point upwards.

Observe the specified torque when tightening the blade fastening screw, as the secure attachment of the cutting tool depends on this.

Additionally secure the blade fastening screw (3) with

Loctite 243.

Replace the spring washer (4) each time the blade is installed and the blade fastening screw (3) each time the blade is replaced.

- Clean the blade contact surface and blade bushing.

- Install the mowing blade (2) with the curved wings pointing upwards (towards the machine). The locating lugs (5) on the blade bushing must be located in the bores (6) of the mowing blade.

- Use a suitable wooden block (1) to counterhold mowing blade (2).

- Install the blade fastening screw (3) with a new retaining washer (4) and tighten.

Tightening torque: **60 - 65 Nm**

12.6 Sharpening the mowing blade

STIHL recommends having the mowing blade sharpened by a technician.

Operation of the machine is impaired in the case of an incorrectly sharpened blade (incorrect sharpening angle, imbalance, etc.).

Sharpening instructions:

- Remove the mowing blade. (⇒ 12.5).
- Cool the mowing blade when sharpening, e.g. with water. The blade must not be allowed to display blue colouring, as this would reduce its cutting quality.
- Sharpen the blade evenly to prevent vibrations due to imbalance.
- Observe the sharpening angle of 30°.
- After sharpening, remove any sharpening burr at the cutting edge using fine sandpaper if necessary.
- Observe the wear limits. (⇒ 12.4)

12.7 Storage and periods of operation (winter break)

Store the machine in a dry, locked, dust-free place. Make sure that it is out of the reach of children.

Any faults must be remedied prior to storage. The machine must always be in a safe operating condition.

Empty the fuel tank and carburettor prior to storage (e.g. by running empty).

Also note the following points when storing the machine for long periods (winter break):

- Clean all external parts of the machine with care.
- Thoroughly lubricate/grease all moving parts.
- Unscrew the spark plug (see engine instruction manual) and pour approx. 3 cm³ of engine oil into the engine via the spark plug hole. Turn the engine several times with the spark plug removed (pull the recoil starter rope).



Fire hazard!

Keep the spark plug socket away from the spark plug hole due to the danger of ignition.

- Screw the spark plug back in (see engine instruction manual).
- Perform an oil change (see engine instruction manual).

13. Transport

13.1 Transport



Risk of injury!

Observe the section "For your safety" before transporting. (⇒ 4.)

Always wear suitable safety clothing when transporting (safety shoes, thick gloves).

Always detach the spark plug socket before lifting or transporting. For safety reasons, STIHL recommends lifting or carrying the machine only with the aid of a second person.

Before lifting, note the weight indicated in the section "Technical specifications".

Carrying the machine

- Two persons:
Only hold the machine at the front handle (1) and at the handlebar (3). Always ensure sufficient distance between the mowing blade and your body, particularly your feet and legs.
- One person:
Lift and carry the machine using both hands, with one hand at the centre of the rear handle (2) and the other hand at the front handle (1).

Securing the machine

- Secure the machine on the load floor using suitable fastening materials.
- Attach ropes or straps at the points marked (4).

14. Environmental protection



Lawn clippings should be composted and not disposed of in household waste.

The machine, its packaging and accessories are all produced from recyclable materials and must be disposed of accordingly.

By disposing of materials separately, and in an environmentally friendly manner, valuable resources can be re-used. For this reason, the machine should be disposed of for recycling at the end of its useful life. Pay particular attention to the information in the "Disposal" section during disposal (⇒ 4.9).

Consult your recycling centre or your specialist dealer for information on the proper disposal of waste products.

15. Minimising wear and preventing damage

Important information on maintenance and care of the product group

petrol lawn mowers (STIHL RM)

STIHL assumes no liability for material or personal damage caused by the non-observance of information contained in the operating instructions, in particular with regard to safety, operation and maintenance, or which arise through the use of unauthorised attachment or spare parts.

Please always observe the following important information for the prevention of damage or excessive wear to your STIHL machine:

1. Wearing parts

Some parts of the STIHL machine are subject to normal wear even when used properly and must be replaced in due time depending on type and duration of use.

These include:

- Mowing blades
- Grass catcher box
- V-belt (RM 443 T, RM 448 PC, RM 448 PT, RM 448 T, RM 448 TC, RM 448 TX, RM 448 VC)

2. Compliance with the information in this instruction manual

The STIHL machine must be used, maintained and stored with the care described in this instruction manual. Any damage caused by non-compliance with the safety, operating and maintenance instructions is the sole responsibility of the user.

This applies in particular to:

- Product modifications not approved by STIHL.
- Use of fuel and lubricants not approved by STIHL (lubricants, petrol and engine oil, see engine manufacturer's specifications).
- The use of tools or accessories which are not approved or suitable for the machine, or are of inferior quality.
- Improper use of the product.
- Use of the product for sporting or competitive events.
- Resultant damage due to continued use of the product with defective components.

3. Maintenance operations

All operations listed in the section "Maintenance" must be performed regularly.

If these maintenance operations cannot be carried out by the user, a specialist dealer must be commissioned to perform them.

STIHL recommends that you have maintenance operations and repairs performed exclusively by a STIHL specialist dealer.

STIHL specialist dealers regularly attend training courses and are provided with technical information.

If these operations are neglected, faults may arise which are the responsibility of the user.

These include:

- Corrosive and other resultant damage caused by incorrect storage.
- Damage to the machine through the use of inferior-quality spare parts.
- Damage due to untimely or inadequate maintenance or damage due to maintenance or repair work not performed in the workshops of specialist dealers.

16. Standard spare parts

Mowing blade RM 443, RM 443 T:

6338 702 0100

Mowing blade RM 448 PC, RM 448 PT, RM 448 T, RM 448 TC, RM 448 TX, RM 448 VC:

6358 702 0100

Blade fastening screw:

9008 319 9028

Retaining washer:

0000 702 6600



The fastening elements for the mowing blade (e.g. blade fastening screw) must be replaced when replacing the blade, i.e. when installing the blade. Spare parts are available from a STIHL specialist dealer.

17. EU - Declaration of conformity

17.1 STIHL

RM 443.0, RM 443.0 T, RM 448.0 PC, RM 448.0 PT, RM 448.0 T, RM 448.0 TC, RM 448.0 TX, RM 448.0 VC Lawn Mower

STIHL Tirol GmbH
Hans Peter Stihl-Strasse 5
6336 Langkampfen
Austria

declares under our sole responsibility that

- design: lawn mower
- manufacturer's brand: STIHL
- type: RM 443.0, RM 443.0 T, RM 448.0 PC, RM 448.0 PT, RM 448.0 T, RM 448.0 TC, RM 448.0 TX, RM 448.0 VC
- serial number:
RM 443.0, RM 443.0 T: 6338
RM 448.0 PC, RM 448.0 PT, RM 448.0 T, RM 448.0 TC, RM 448.0 TX, RM 448.0 VC: 6358

complies with the relevant provisions of Directives 2000/14/EC, 2006/42/EC, 2014/30/EU and 2011/65/EU and has been developed and manufactured in accordance with the versions of the following standards valid on the date of manufacture: EN ISO 5395-1, EN ISO 5395-2 and EN 14982 (where applicable).

Name and address of relevant, named location:

TÜV Rheinland LGA Products GmbH
Tillystrasse 2
D-90431 Nuremberg

The measured and guaranteed sound power levels were determined in accordance with Directive 2000/14/EC, Appendix VIII.

RM 443.0, RM 443.0 T

- Measured sound power level: 93 dB(A)
- Guaranteed sound power level: 94 dB(A)

RM 448.0 PC, RM 448.0 PT, RM 448.0 TX, RM 448.0 VC

- Measured sound power level: 95.3 dB(A)
- Guaranteed sound power level: 96 dB(A)

RM 448.0 T, RM 448.0 TC

- Measured sound power level: 95.7 dB(A)
- Guaranteed sound power level: 96 dB(A)

The technical documents are stored in the Product Approval department at STIHL Tirol GmbH.

The year of manufacture and machine number are indicated on the lawn mower.

Langkampfen, 02.11.2020

STIHL Tirol GmbH

p.p.



Matthias Fleischer, Head of Research and Development Division

p.p.



Sven Zimmermann, Head of Quality Division

Importer for Great Britain

ANDREAS STIHL Ltd.
Stihl House
Stanhope Road
CAMBERLEY
SURREY GU15 3YT
Great Britain

18. Technical specifications

**RM 443.0, RM 443.0 T, RM 448.0 PC,
RM 448.0 PT, RM 448.0 T, RM 448.0 TC,
RM 448.0 TX, RM 448.0 VC:**

Engine, design

4-stroke combustion engine

Starter	Rope start
Cutting tool	Cutter bar
Cutter bar drive	Permanent
Tightening torque for blade fastening screw	60 - 65 Nm
Safety device	Motorstop
Wheel diameter (front)	180 mm
Wheel diameter (rear)	200 mm
Grass catcher box capacity	55 l
Cutting height	25 - 75 mm

RM 443.0, RM 443.0 T:

Serial number	6338
Cutting width:	41 cm

RM 443.0:

Engine: Manufacturer, type	Briggs & Stratton, Series 550 EX OHV RS
Displacement	140 ccm
Nominal output at nominal speed	2,1 - 2800 kW - rpm
Fuel tank	0,8 l
Cutter bar speed	2800 rpm
Self-propulsion	No
Length	144 cm
Width	49 cm
Height	109 cm
Weight	23 kg

Sound emissions

In accordance with Directive 2000/14/EC:

Guaranteed sound power level L_{WAd}	94 dB(A)
--	----------

In accordance with Directive 2006/42/EC:

Sound pressure level
at workplace L_{pA} 81 dB(A)

Uncertainty K_{pA} 2 dB(A)

Hand-arm vibrations

Specified vibration characteristic in
accordance with EN 12096:

Measured value a_{hw} 4,10 m/sec²

Uncertainty K_{hw} 2,05 m/sec²

Measurement in accordance with
EN 20643

RM 443.0 T:

Engine: Manufacturer, type Briggs & Stratton, Series 550
EX OHV RS

Displacement 140 ccm

Nominal output at
nominal speed 2,1 - 2800
kW - rpm

Fuel tank 0,8 l

Cutter bar speed 2800 rpm

Self-propulsion 1 forward gear
with soft starter

Length 144 cm

Width 48 cm

Height 109 cm

Weight 25 kg

Sound emissions

In accordance with Directive 2000/14/EC:

Guaranteed sound
power level L_{WAAd} 94 dB(A)

In accordance with Directive 2006/42/EC:

Sound pressure level
at workplace L_{pA} 81 dB(A)

Uncertainty K_{pA} 2 dB(A)

Hand-arm vibrations

Specified vibration characteristic in
accordance with EN 12096:

Measured value a_{hw} 4,10 m/sec²

Uncertainty K_{hw} 2,05 m/sec²

Measurement in accordance with
EN 20643

RM 448.0 PC, RM 448.0 PT, RM 448.0 T, RM 448.0 TC, RM 448.0 TX, RM 448.0 VC:

Serial number 6358

Cutting width 46 cm

RM 448.0 PC:

Engine: Manufacturer, type Briggs & Stratton, Series 625

Displacement 150 ccm

Nominal output at
nominal speed 2,2 - 2800
kW - rpm

Fuel tank 0,8 l

Cutter bar speed 2800 rpm

Self-propulsion 1 forward gear
with soft starter

Length 147 cm

Width 50 cm

Height 113 cm

Weight 27 kg

Sound emissions

In accordance with Directive 2000/14/EC:

Guaranteed sound
power level L_{WAAd} 96 dB(A)

In accordance with Directive 2006/42/EC:

Sound pressure level
at workplace L_{pA} 83 dB(A)

Uncertainty K_{pA} 2 dB(A)

Hand-arm vibrations

Specified vibration characteristic in
accordance with EN 12096:

Measured value a_{hw} 3,00 m/sec²

Uncertainty K_{hw} 1,50 m/sec²

Measurement in accordance with
EN 20643

RM 448.0 PT:

Engine: Manufacturer, type

Displacement 150 ccm

Nominal output at
nominal speed 2,2 - 2800
kW - rpm

Fuel tank 0,8 l

Cutter bar speed 2800 rpm

Self-propulsion 1 forward gear
with soft starter

Length 147 cm

Width 50 cm

Height 111 cm

Weight 27 kg

Sound emissions

In accordance with Directive 2000/14/EC:

Guaranteed sound
power level L_{WAAd} 96 dB(A)

In accordance with Directive 2006/42/EC:

Sound pressure level
at workplace L_{pA} 83 dB(A)

Uncertainty K_{pA} 2 dB(A)

Hand-arm vibrations

Specified vibration characteristic in
accordance with EN 12096:

Measured value a_{hw} 3,90 m/sec²

Uncertainty K_{hw} 1,95 m/sec²

Measurement in accordance with
EN 20643

RM 448.0 T:

Engine: Manufacturer, type Briggs & Stratton, Series 575

Displacement 140 ccm

Nominal output at
nominal speed 2,1 - 2800
kW - rpm

Fuel tank 0,8 l

Cutter bar speed 2800 rpm

Self-propulsion 1 forward gear
with soft starter

Length	147 cm
Width	50 cm
Height	111 cm
Weight	26 kg

Sound emissions

In accordance with Directive 2000/14/EC:

Guaranteed sound power level $L_{WA,d}$	96 dB(A)
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In accordance with Directive 2006/42/EC:

Sound pressure level at workplace L_{pA}	83 dB(A)
Uncertainty K_{pA}	2 dB(A)

Hand-arm vibrations

Specified vibration characteristic in accordance with EN 12096:

Measured value a_{hw}	3,90 m/sec ²
Uncertainty K_{hw}	1,95 m/sec ²

Measurement in accordance with EN 20643

RM 448.0 TC:

Engine: Manufacturer, type	Briggs & Stratton, Series 575
Displacement	140 ccm
Nominal output at nominal speed	2,1 - 2800 kW - rpm
Fuel tank	0,8 l
Cutter bar speed	2800 rpm
Self-propulsion	1 forward gear with soft starter
Length	147 cm
Width	50 cm
Height	113 cm
Weight	27 kg

Sound emissions

In accordance with Directive 2000/14/EC:

Guaranteed sound power level $L_{WA,d}$	96 dB(A)
---	----------

In accordance with Directive 2006/42/EC:

Sound pressure level at workplace L_{pA}	83 dB(A)
Uncertainty K_{pA}	2 dB(A)

Hand-arm vibrations

Specified vibration characteristic in accordance with EN 12096:

Measured value a_{hw}	3,50 m/sec ²
Uncertainty K_{hw}	1,75 m/sec ²

Measurement in accordance with EN 20643

RM 448.0 TX:

Engine: Manufacturer, type	Briggs & Stratton, Series 550 EX OHV RS
Displacement	140 ccm
Nominal output at nominal speed	2,1 - 2800 kW - rpm
Fuel tank	0,8 l
Cutter bar speed	2800 rpm
Self-propulsion	1 forward gear with soft starter
Length	147 cm
Width	50 cm
Height	111 cm
Weight	26 kg

Sound emissions

In accordance with Directive 2000/14/EC:

Guaranteed sound power level $L_{WA,d}$	96 dB(A)
---	----------

In accordance with Directive 2006/42/EC:

Sound pressure level at workplace L_{pA}	83 dB(A)
Uncertainty K_{pA}	2 dB(A)

Hand-arm vibrations

Specified vibration characteristic in accordance with EN 12096:

Measured value a_{hw}	4,10 m/sec ²
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Uncertainty K_{hw}	2,05 m/sec ²
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Measurement in accordance with EN 20643

RM 448.0 VC:

Engine: Manufacturer, type	Briggs & Stratton, Series 625
Displacement	150 ccm
Nominal output at nominal speed	2,2 - 2800 kW - rpm
Fuel tank	0,8 l
Cutter bar speed	2800 rpm
Self-propulsion	Vario forwards
Length	147 cm
Width	50 cm
Height	113 cm
Weight	28 kg

Sound emissions

In accordance with Directive 2000/14/EC:

Guaranteed sound power level $L_{WA,d}$	96 dB(A)
---	----------

In accordance with Directive 2006/42/EC:

Sound pressure level at workplace L_{pA}	83 dB(A)
Uncertainty K_{pA}	2 dB(A)

Hand-arm vibrations

Specified vibration characteristic in accordance with EN 12096:

Measured value a_{hw}	3,00 m/sec ²
Uncertainty K_{hw}	1,50 m/sec ²

Measurement in accordance with EN 20643

18.1 REACH

REACH is an EC Directive for the registration, evaluation, authorisation and restriction of chemicals.

Information on compliance with the REACH Directive (EC) No. 1907/2006 is available from www.stihl.com/reach.

19. Troubleshooting

✂ If necessary, contact a specialist dealer; STIHL recommends STIHL specialist dealers.

📖 See engine instruction manual.

Fault:

Engine not starting

Possible cause:

- Motorstop lever not pressed.
- No fuel in tank; fuel line blocked.
- Inferior, dirty or old fuel in tank.
- Air filter dirty.
- Spark plug socket detached from spark plug; ignition lead not properly fastened to socket.
- Spark plug dirty or damaged; incorrect electrode gap.

Remedy:

- Press motorstop lever to handlebar and hold. (⇒ 9.2)
- Top up fuel; clean fuel line. ✂
- Always use fresh, good quality fuel, unleaded petrol; clean carburettor. ✂
- Clean air filter. ✂
- Connect spark plug socket; check connection between ignition lead and socket. ✂
- Clean or replace spark plug; adjust electrode gap. ✂

Fault:

Starting problems or deteriorating engine power.

Possible cause:

- Lawn mower housing blocked.
- Mowing at an excessively low cutting height or propulsion speed is too high in relation to the cutting height.
- Water in fuel tank and carburettor; carburettor blocked.
- Fuel tank contaminated.
- Air filter dirty.
- Spark plug dirty.

Remedy:

- Clean lawn mower housing (detach spark plug socket!). (⇒ 12.3)
- Select a higher cutting height or reduce the pushing speed. (⇒ 8.4)
- Empty fuel tank, clean fuel line and carburettor. ✂
- Clean fuel tank. ✂
- Clean air filter. ✂
- Clean spark plug. ✂

Fault:

Engine overheating.

Possible cause:

- Oil level in engine too low.
- Cooling ribs dirty.

Remedy:

- Change engine oil. (⇒ 7.6)
- Clean cooling ribs. (⇒ 12.3)

Fault:

Excessive vibration during operation.

Possible cause:

- Cutting unit defective.

- Engine mounting loose.

Remedy:

- Check mowing blade, blade shaft and blade fastening (blade fastening screw and retaining washer), and repair if necessary. ✂
- Tighten engine mounting bolts. ✂

Fault:

Poor cut, lawn turning yellow

Possible cause:

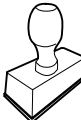
- Mowing blade is blunt or worn,

Remedy:

- Sharpen or replace the mowing blade (⇒ 12.6), (⇒ 12.5), ✂

20. Service schedule


20.1 Handover confirmation


Model:	_____
Serial number:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
Date:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
	
Next service	
Date:	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>

20.2 Service confirmation



Please hand this instruction manual to your STIHL specialist dealer in the case of maintenance operations. He will confirm the service operations performed in the pre-printed boxes.

 Service performed on

 Next service date