

STIHL RM 756 GC, RM 756 GS RM 756 YC, RM 756 YS

STIHL



DE	Gebrauchsanleitung
EN	Instruction manual
FR	Manuel d'utilisation
NL	Gebruiksaanwijzing
IT	Istruzioni per l'uso
ES	Manual de instrucciones
PT	Manual de utilização
NO	Bruksanvisning
SV	Bruksanvisning
FI	Käyttöopas
DA	Betjeningsvejledning
PL	Instrukcja obsługi
SK	Návod na obsluhu
HU	Használati útmutató
SR	Uputstvo za upotrebu
EL	Οδηγίες χρήσης
RU	Инструкция по эксплуатации

RM 756.0 GC RM 756.0 GS RM 756.0 YC RM 756.0 YS



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 is a **translation of the 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: (⇒ 3.)

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 Blade stop lever
- 2 Self-propulsion lever
- 3 Throttle lever
- 4 RM 756 GC, RM 756 GS:
Gearshift lever
- 4 RM 756 YC, RM 756 YS:
Driving speed lever
- 5 Blade clutch lever
- 6 Handlebar
- 7 Screw for handlebar height
adjustment
- 8 Single-wheel cutting height
adjustment
- 9 Bumper
- 10 Spark plug socket
- 11 Discharge flap
- 12 Grass catcher bag with anti-dust
screen
- 13 Rating plate with machine number
- 14 RM 756 GC, RM 756 YC:
Carrying handle

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 should 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.

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 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.

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.

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



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.

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.

Open the tank ventilation screw before removing the tank cap.

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.

Only close the tank ventilation screw and fuel cock for transport and before placing the machine in the service position.

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.



Always wear hearing protection when working with the machine.



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.

4.4 Transporting the machine

Always wear protective gloves (⇒ 4.3) 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, close the tank ventilation screw and fuel cock and remove the spark plug socket prior to transport.

Only transport the machine once the engine has cooled down.

Use suitable loading aids (loading ramps, lifters).

Do not drop the machine.

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. (⇒ 12.)

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.



Risk of injury!

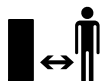
Worn or damaged parts (e.g. blunt blades) can affect the safety of the machine and result in injury to the user.

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. (⇒ 11.6)
- 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. blade brake clutch, 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 tank cap is screwed on properly.

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 blade stop 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" (⇒ 10.). 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.

In particular, check operation of the blade brake clutch before starting work. (⇒ 8.)

The machine must not be tilted during start-up.

Disengage the mowing blade before starting. Do not actuate the self-propulsion lever during starting.

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

Working on slopes:

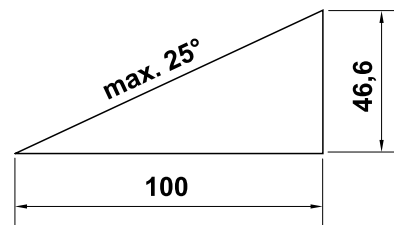
Always work across and back on slopes, never up and down.

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).

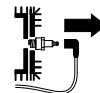
Disengage the mowing blade

- When driving the machine to and from the area to be mowed or when pushing it for this purpose
- Before pushing machine onto an area not covered in grass or before driving it onto such an area
- If tilting of the mower is necessary when pushing or driving it over an area other than grass
- Before adjusting the cutting height
- Before opening the discharge flap or removing the grass catcher bag

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 with the mowing blade engaged 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. (⇒ 11.1)

Close the tank ventilation screw and fuel cock 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 protective gloves (⇒ 4.3) 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 open tank ventilation screw as well as 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.

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



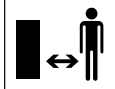
Caution!

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).



Wear hearing protection when working.



Caution – risk of injury!

Never reach into the working area of the blade when the engine is running.

Speed adjustment:

RM 756 YS, RM 756 YC:



Maximum speed



Minimum speed

Throttle:



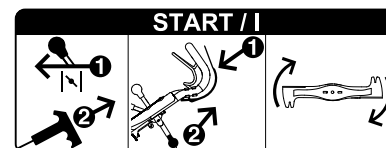
Choke position



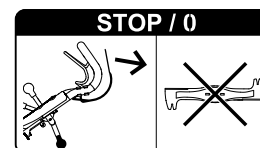
Start position



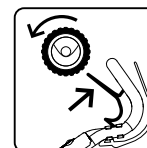
Stop position



Start the engine, engage the mowing blade.



Disengage the mowing blade.



Switch on self-propulsion.

6. Standard equipment

Item	Designation	Qty.
A	Basic unit with handlebar	1
B	Grass catcher bag frame	1
C	Grass catcher bag fabric	1
D	Grass catcher bag flap	1
E	Cable tie	2
F	Protective sleeve	1
–	Instruction manual	1
–	Engine instruction manual	1
RM 756 GS, RM 756 YS:		
G	Flat head bolt	4
H	Lock nut	4
RM 756 GC, RM 756 YC:		
I	Self-tapping screw	1
J	Carrying handle	1

7. Preparing the machine for operation



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.

7.1 Assembling the handlebar

RM 756 GC, RM 756 YC:

- **1** Remove screw (1) together with washer (2). Loosen screws (3).



Qty.

- **2** Push handlebar (4) into handlebar attachment (5) and fold up until the slot in the handlebar is above the bore in the housing, making sure that the cables are lying correctly (see illustration).
- **3** Install screw (1) with washer (2), making sure that the screw also extends into guard plate (6).
- **4** Tighten screws (3) to 21 - 29 Nm. Set the handlebar to the desired working height and hold, tighten screw (1).
- Check correct assembly:
The handlebar must be firmly located with the cables to the rear and outside of the handlebar.

RM 756 GC, RM 756 YC:

Installing the carrying handle



- **1** Push carrying handle (J) into the handlebar tube as shown with groove (4) pointing upwards.
- **2** Screw in self-tapping screw (I), making sure that it is positioned in the groove on the carrying handle. Tightening torque:
3 - 4 Nm

RM 756 GS, RM 756 YS:



- **1** Guide upper handlebar (1) with the open ends into lower handlebars (2) and hold. Insert bolts (G) from the outside inwards through the bores, fit lock nuts (H) and tighten to 19 - 27 Nm.
- **2** Set the handlebar to the desired working height and hold, tighten screw (3).

- Check correct assembly:
The upper handlebar must be firmly connected to the lower handlebar with the cables to the rear and outside of the handlebar.

7.2 Installing protective sleeve



- Insert all cables in protective sleeve (F).
- Guide cable tie (E) through the top opening in right lower handlebar (1) and use to fasten protective sleeve (F).
- Fasten protective sleeve (F) to right upper handlebar with cable tie (E) as shown.



Prior to initial operation, the cables must be checked and adjusted if necessary. (⇒ 11.9)

7.3 Single-wheel cutting height adjustment



The cutting height can be adjusted to six different positions at each wheel using a corresponding lever.

Lowest cutting height (1): 25 mm

Highest cutting height (6): 90 mm

Setting the cutting height:

- Push lever (1) towards the wheel, set to the desired position and allow to engage in the corresponding notch.

Repeat this procedure on all four wheels.



Avoid damage to the machine!

To prevent the machine tipping over, set the cutting height on the rear wheels first and then on the front wheels.

Caution must also be exercised when setting a lower cutting height because the entire weight of the machine then rests on the last wheel.

7.4 Height adjustment of the handlebar



The working height of the handlebar can be adjusted to 3 levels.

- Remove screw (1).
- Grip handlebar (2) with both hands, adjust to a pleasant working height by moving it upwards or downwards and hold in position.
- Install screw (1) and tighten.

7.5 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

Use only fresh, environmentally friendly, good quality fuel:



- Unleaded petrol

Please consult the engine instruction manual for precise details on the fuel quality/octane rating.

See the section "Technical specifications" for details about the fuel tank capacity. (⇒ 17.)

Topping up fuel

- Open tank ventilation screw (1).
- Unscrew tank cap (2).
- Top up fuel (use a funnel).
- Screw tank cap (1) back on again.



Open tank ventilation screw (1) and fuel cock (3) before operating the engine.

7.6 Assembling the grass catcher bag



- Pull grass catcher bag fabric (C) over grass catcher bag frame (B) as shown. The struts (1) and handle (2) must be located on the outside of the fabric.
- Position integrated plastic sleeves (3) on the grass catcher bag frame and press them into place. Start by pressing under guiding plate (4) of the grass catcher bag frame.

- First attach flap (D) on the left, then on the right of the grass catcher bag frame, then snap them in on both sides by pressing firmly.

7.7 Attaching and detaching the grass catcher bag



Attaching:

- Open discharge flap (1) and hold it open.
- Hold the grass catcher bag at handle (2) and guide into ejection chute (4) with guiding plate (3).
- Place brackets (5) on mountings (6) on the left and right between the machine and handlebar and attach the grass catcher bag with a gentle tug.
- Release discharge flap (1).

Detaching:

- Lift discharge flap (1).
- Hold grass catcher bag at handle (2) and detach.
- Close discharge flap (1).

8. Blade brake clutch (BBC)



Your lawn mower is equipped with a **blade brake clutch (BBC)**.

This means that the mowing blade stops within a short time after it is disengaged, but the engine keeps running.

In order to prevent injuries or damage to the machine, ensure that you are familiar with operation of the BBC system prior to initial use.

Two-hand operation:

The mowing blade can only be engaged as follows with the engine running:

Press blade stop lever (1) towards the handlebar and hold, then pull blade clutch lever (2) upwards with the other hand and allow it to engage.



Risk of injury!

For safety reasons, the lever must never be disabled, e.g. by tying it to the handlebar.

Operation of the blade brake clutch must be checked before each use. (⇒ 10.4)



Avoid damage to the machine!

Avoid overloading as this can result in greater wear to the blade brake clutch and consequently to overheating. (⇒ 9.)

9. Notes on working with the machine

Avoid overloading of the blade brake clutch

An overload can occur

- if mowing is continued when the grass catcher bag is full.
- if the mowing channel is blocked.
- if mowing at excessive speed in high grass.

If the mowing blade is blocked, the grass is no longer cut and the engine cuts out.

For this reason, never mow when the mowing channel is blocked or the grass catcher bag is full; adapt the driving speed to the conditions. Use a mulching kit (special accessory) if necessary.

Completion of work

Upon completing work, always remove combustible material (grass, leaves, etc.) from the housing and engine to prevent a fire hazard.

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.

9.1 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.)

10. Operating the machine



Risk of injury!

Carefully read and observe the “For your safety” section before operating the machine. (⇒ 4.)

10.1 Starting the engine



- Check the oil and fuel levels. (⇒ 7.5)
- Open tank ventilation screw (1) and fuel cock (2).
- Set throttle lever (3) to the **Choke** position (4) when the engine is cold. Set throttle lever (3) to the **Start** position (5) when the engine is warm or during hot weather.
- Pull recoil starter rope (6) slowly to the point of compression resistance and then pull vigorously to arm's length to prevent kickback. Slowly release the cable so that it can gradually be rolled up by the starter. Repeat the starting procedure until the engine starts.
- Set throttle lever (3) to the **Start** position (5).



Risk of injury!

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

10.2 Engaging the mowing blade



Avoid damage to the machine!

Do not engage the mowing blade in tall grass and only engage it at the maximum engine speed.

Always engage it quickly in order to prevent unnecessary wear to the blade clutch.

- **1** Press blade stop lever (1) to the handlebar and hold.
- **2** Pull blade clutch lever (2) back to the stop and allow to engage.
- Keep blade stop lever (1) pressed when working.

10.3 Disengaging the mowing blade



- **1** Release blade stop lever (1).

The blade clutch lever (2) is released and returns automatically to its initial position. The mowing blade is disengaged and braked, the engine continues to run.

10.4 Checking the blade brake clutch (BBC)

Operation of the blade brake clutch must be checked **three times** before starting work.

- Engage the mowing blade with the engine running. (⇒ 10.2)
A running mowing blade generates a clearly audible wind noise.
- Disengage the mowing blade (release the blade stop lever). (⇒ 10.3)
The blade brake clutch disengages the mowing blade from the engine drive and brakes it. This procedure is accompanied by stopping of the wind noise and must not take more than 3 seconds. No wind noise must be audible when the blade is stopped.

Measuring the run-on time

The run-on time corresponds to the duration of the wind noise following disengagement. This can be measured using a stopwatch.

Should the blade brake clutch not work as described (e.g. long run-on time or continuing audible wind noise when the mowing blade is disengaged), the machine must not be operated.



Risk of injury!

In this case, switch off the engine, detach the spark plug socket and have the necessary repairs performed by trained personnel. STIHL recommends STIHL specialist dealers.

10.5 Switching on self-propulsion

RM 756 YC, RM 756 YS:



The lawn mowers are equipped with a hydrostatic gearbox. The speed can be continuously regulated when self-propulsion is switched on.

- Start the engine. (⇒ 10.1)
- **1** Set the desired speed using driving speed lever (1).
STIHL recommends moving off slowly and therefore selecting a low speed.
- **2** Pull self-propulsion lever (2) to the handlebar and hold.
Self-propulsion is switched on and the lawn mower moves forwards.

Drive speed:

Continuously from



0,5 km/h

to



5,5 km/h

RM 756 GC, RM 756 GS:



The lawn mower is equipped with a three-speed gearbox. The three forward gears can be freely selected with self-propulsion engaged.

- Start the engine. (⇒ 10.1)
- **1** Engage the required gear with gearshift lever (1).
STIHL recommends moving off slowly and therefore engaging 1st gear.
- **2** Pull self-propulsion lever (2) to the handlebar and hold.
Self-propulsion is switched on and the lawn mower moves forwards.

Drive speed:

1st gear:	2,5 km/h
2nd gear:	3,7 km/h
3rd gear:	5,0 km/h

10.6 Switching off self-propulsion



- **1** Release self-propulsion lever (1) to switch off self-propulsion.

10.7 Stopping the engine



- To stop the engine, move throttle lever (1) to the **Stop** position (2).



10.8 Grass catcher bag with anti-dust screen



An anti-dust screen (1) is attached on the upper side of the grass catcher bag, which prevents fine dust from being blown upwards in the direction of the user.

Level indicator:

The centre of the anti-dust screen is lifted slightly through the air flow which is generated by the rotary motion of the mowing blade and is responsible for filling the grass catcher bag.

When the grass catcher bag is full, this flow of air is reduced and the anti-dust screen drops down onto the grass catcher bag.

Emptying the grass catcher bag:



Risk of injury!

Always disengage the mowing blade before emptying. (⇒ 10.3)

Take weight into account!

A completely filled grass catcher bag can weigh up to 22 kg.



Avoid damage to the machine!

Always empty the grass catcher bag in good time in order to prevent the mowing channel from becoming obstructed. Obstructions can block the mowing blade and lead to unnecessary wear of the blade brake clutch.

- Disengage the mowing blade. (⇒ 10.3)
- Detach the grass catcher bag. (⇒ 7.7)
- Hold the grass catcher bag by handle (2) and nylon strap (3) sewn onto the back and empty it.
- Attach the grass catcher bag again. (⇒ 7.7)

11. Maintenance



Risk of injury!

Always wear protective gloves.

Do not touch the blades until they have come to a standstill.

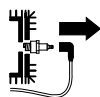
If you do not have the necessary expertise or auxiliary equipment, please always contact a specialist dealer.

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

STIHL recommends the use of original STIHL spare parts.

Risk of injury!

Carefully read the section "For your safety" (⇒ 4.), particularly the subsection "Maintenance and repairs" (⇒ 4.7), and follow all safety instructions exactly before performing any maintenance or cleaning operations on the machine.



Detach the spark plug socket before performing any maintenance or cleaning operations.



11.1 Cleaning the machine

Maintenance interval: After each use

Treating the machine carefully will protect it against damage and extend its service life.



Never spray water (high-pressure cleaner) onto engine components, seals, electrical parts or bearing points. This may result in damage and expensive repairs.

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

If you are unable to remove the dirt with water using a brush or a cloth, STIHL recommends the use of a special cleaner (e.g. STIHL special cleaner).

Detach accumulated cutting deposits in the housing and in the ejection chute beforehand using a stick.



Avoid damage to the machine!

In particular carefully clean the housing, all covers and the area around the engine as well as the mowing blade.

Cleaning position:

- Park the machine on level, flat and solid ground.
- Remove the grass catcher box. (⇒ 7.7)
- Close the tank ventilation screw. (⇒ 7.5)
- Set the maximum cutting height at the left and right rear wheels. (⇒ 7.3)
- Remove screw (1) together with washer (2).
- Hold the handlebar until notch (3) is above bore (4) in the housing.
- Install screw (1) with washer (2) firmly enough that the handlebar is securely fixed in the service position.
- Lift up the machine at the front, open the discharge flap and fold down the handlebar to the rear. Check that the machine is stable.

After cleaning, place the machine on all 4 wheels, locate the handlebar in the working position once more and set the desired cutting height.

11.2 Wheels

The wheel bearings are maintenance-free.

11.3 Engine

Maintenance interval:
See 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, as well as to observe the recommended oil change intervals.

Information regarding engine oil and oil capacity 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.

11.4 Gearbox

RM 756 YC, RM 756 YS:

Maintenance interval:
**Every 1000 operating hours/
at least once a year**

The hydrostatic gearbox must only be maintained by trained personnel. STIHL recommends STIHL specialist dealers.

RM 756 GC, RM 756 GS:

The 3-speed gearbox is maintenance free.

11.5 Blade brake clutch maintenance

Maintenance interval:
Once a year

The blade brake clutch is subject to natural wear.

It must only be maintained by trained personnel. STIHL recommends STIHL specialist dealers.

11.6 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.

Checking procedure



Risk of injury!

Observe the safety instructions in the "For your safety" section.
(⇒ 4.7)

- Place the machine in the cleaning position. (⇒ 11.1)
- Clean mowing blade (1) and check for notches and cracks.
- Use slide calliper (2) to measure the blade thickness **A** at several points.

- Measure the blade width as illustrated at the points **B** and **C** on the left and right of the blade.

Wear limits:

The blade thickness **A** must be at least 2,5 mm at any point.

The blade width must be at least 80 mm at point **B** and at least 55 mm at point **C**.

Different wear limits apply if e.g. the mulching blade available as a special accessory is installed in the lawn mower instead of the supplied mowing blade.

11.7 Removing and installing the mowing blade



Risk of injury!

Always wear gloves.



Removing

- Place the machine in the cleaning position. (⇒ 11.1)
- Hold mowing blade (1) and loosen blade fastening screw (2).
- Remove blade fastening screw (2), retaining washer (3) and mowing blade (1).

Assembly



Avoid damage to the machine!

The mowing blade must be replaced if notches or cracks are detected or if a wear limit is reached (⇒ 11.6).

- Clean the blade contact surface and blade holder.
- Secure the blade fastening screw with Loctite 243.

- Place mowing blade (1) on blade holder (4) as illustrated.
- Position retaining washer (3) as illustrated and tighten with blade fastening screw (2) to 60 - 65 Nm.



Risk of injury!

The prescribed tightening torque must be observed.

Retaining washer (3) must be replaced each time the blade is installed.

Blade fastening screw (2) must be renewed each time the blade is replaced.

11.8 Sharpening the mowing blade

If mowing results deteriorate over time, this is usually the result of a blunt mowing blade.

The following points must be noted when resharpening:

- Remove the mowing blade. (⇒ 11.7)
- 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 blades evenly to prevent vibration due to imbalance.
- The cutting angle of **30°** must be observed.
- Observe the wear limits when sharpening.
- Remove any sharpening burr.

11.9 Cable maintenance

The **throttle cable** must only be maintained by trained personnel. STIHL recommends STIHL specialist dealers.

Adjusting the blade brake clutch cable



Maintenance interval: As required

Adjustment of the cable is necessary

- if the mowing blade is stationary following engagement,
- if engagement only takes place following a delay,
- if the speed of the engaged mowing blade decreases during mowing.

Adjusting the cable

- Loosen nut (1) and tension cable (2) using nut (3). Then tighten nut (1) again.

Check

Correct adjustment is checked by measuring the spring length.

- **1** Measure the length of the relaxed spring (4) using a slide calliper.
- Engage the mowing blade – do **not** start the engine. (⇒ 10.2)
- **2** Measure the length of the stretched spring (4).
Difference in length:
at least 3 mm
- Adjust the cable again if necessary.



If the mowing blade does not correctly engage despite the cable being correctly adjusted, the blade brake clutch must be checked by a specialist dealer. STIHL recommends STIHL specialist dealers.

Adjusting the hydro self-propulsion cable



RM 756 YC, RM 756 YS

Maintenance interval: Prior to initial use or as required

Adjustment of the cable is necessary

- before the machine is operated for the first time
- if the maximum speed is not achieved
- if self-propulsion is permanently engaged. This means that the lawn mower automatically begins to move when the recoil starter rope is pulled, despite the self-propulsion lever not being actuated.

Adjusting the cable

- Pull driving speed lever (1) all the way back.
- Loosen nuts (2, 3) to release the tension on cable (4).
- Start the engine. (⇒ 10.1)
- Pull the self-propulsion lever to the handlebar and hold. (⇒ 10.5)
- Tension cable (4) using nut (3) until self-propulsion is activated. Then release the self-propulsion lever, stop the engine and tighten nut (2).



- **Check:**

When the self-propulsion lever is not actuated, the cable is tensioned slightly and the machine can be pulled backwards – the wheels are not blocked.

Adjusting the gearshift cable

RM 756 GC, RM 756 GS



Maintenance interval: As required

Adjustment of the cable is necessary

- if the individual gears cannot be engaged.

Adjusting the cable

- Tighten cable (1) using two nuts (2, 3) on the underside of the handlebar so that all three gears can be correctly engaged.

Adjusting the self-propulsion cable

RM 756 GC, RM 756 GS



Maintenance interval: As required

Adjustment of the cable is necessary

- if self-propulsion is not activated when the self-propulsion lever is operated.
- if self-propulsion is permanently engaged. This means that the lawn mower automatically begins to move when the recoil starter rope is pulled, despite the self-propulsion lever not being actuated.



Risk of injury!

The self-propulsion cable must be correctly adjusted before the machine is operated.

Checking the cable tension:

1. Engage 3rd gear and pull the recoil starter rope – the lawn mower is not driven.
2. Pull the self-propulsion lever to the handlebar and hold, pull the recoil starter rope – the lawn mower is driven.

Adjusting the cable:

- Tighten cable (1) using two nuts (2, 3) on the underside of the handlebar so that self-propulsion is activated at about half the travel of the self-propulsion lever.

11.10 Storage and periods of inoperation (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).

12. Transport



Risk of injury!

Before transporting, carefully read and observe the section "For your safety", in particular the "Transporting the machine" section. (⇒ 4.4)

12.1 Securing the machine (lashing)



Only transport the machine on all four wheels, on a clean, level load floor.

- Secure the machine against slipping using suitable fastening materials. Attach ropes or straps to lower handlebar (1) and bumper (2).

12.2 Lifting or carrying the machine

The lawn mower must always be lifted and carried by two people.

All models:

- Hold and lift the lawn mower by bumper (1) and handlebar (2).

RM 756 GC, RM 756 YC – Additional carrying method:

- Pull carrying handle (3) out from the lower handlebar as far as it will go.



- Right:
Hold and lift the lawn mower by bumper (1) and handlebar (2).
Left:
Hold and lift the lawn mower by bumper (1) and carrying handle (3).
- After transporting, push carrying handle (3) into the lower handlebar as far as it will go.

13. 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, recyclable waste can be re-used. For this reason, the machine should be disposed of for recycling at the end of its useful life. Improper disposal may be harmful to health and pollute the environment. Pay particular attention to the information in the section "Disposal" during disposal. (⇒ 4.9)

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

14. 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 blade
- Grass catcher bag
- V-belt
- Skirting protectors
- Tyres
- Mowing channel insert

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.

15. Standard spare parts

Mowing blades

6378 702 0100

Blade fastening screw

9008 319 2460

Retaining washer

0000 702 6600



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

16. Declaration of conformity

16.1 EU declaration of conformity – STIHL RM 756.0 GC, RM 756.0 GS, RM 756.0 YC, RM 756.0 YS 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 756.0 GC, RM 756.0 GS,
RM 756.0 YC, RM 756.0 YS
- cutting width: 54
- serial number: 6378

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.

Approved body involved:
TÜV Rheinland LGA Products GmbH
Tillystrasse 2
90431 Nuremberg, Germany

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

- Measured sound power level:
97.4 dB(A)
- Guaranteed sound power level: 98
dB(A)

The technical documents are stored at STIHL Tirol GmbH.

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

Langkampfen, 02.01.2021

STIHL Tirol GmbH

p.p.

Matthias Fleischer, Head of Research and Development Division

p.p.

Sven Zimmermann, Head of Quality Division

16.2 UKCA-Declaration of Conformity STIHL RM 756.0 GC, RM 756.0 GS, RM 756.0 YC 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 756.0 GC, RM 756.0 GS,
RM 756.0 YC
- cutting width: 54 cm
- serial number: 6378

complies with the relevant provisions of UK Regulations Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001, Supply of Machinery (Safety) Regulations 2008, Electromagnetic Compatibility Regulations 2016 and The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 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 14982:2009.

The measured and guaranteed sound power levels were determined in accordance with the Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001, Schedule 11.

Approved Body involved:
TUV Rheinland UK LTD
1011 Stratford Road
Solihull, B90 4BN

RM 756.0 GC, RM 756.0 GS, RM 756.0 YC

- Measured sound power level:
97.4 dB(A)
- Guaranteed sound power level:
98 dB(A)

The technical documents are stored at
STIHL Tirol GmbH.

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

Langkampfen, 01.07.2022

STIHL Tirol GmbH

p.p.



Matthias Fleischer, Vice President Product
Development

p.p.



Sven Zimmermann, Director Quality
Management

17. Technical specifications

RM 756.0 GC/RM 756.0 GS/RM 756.0 Y C/RM 756.0 YS

Serial number	6378
Engine, design	4-stroke combustion engine
Manufacturer	Kawasaki
Type	FJ 180 V KAI OHV
Displacement	179 ccm
Housing material	Die-cast magnesium
Nominal output at nominal speed	2,9 - 2800 kW - rpm
Fuel tank	3 l
Starter	Rope start
Cutting tool	Cutter bar
Cutting width	54 cm
Cutter bar speed	2800 rpm
Cutter bar drive	BBC
Blade fastening screw tightening torque	60 - 65 Nm
Wheel diameter (front)	207 mm
Wheel diameter (rear)	232 mm
Grass catcher box capacity	80 l
Cutting height	25 - 90 mm
Specified vibration characteristic in accordance with EN 12096:	
Measured value a_{hw}	2,40 m/sec ²

RM 756.0 GC/RM 756.0 GS/RM 756.0 Y C/RM 756.0 YS

Uncertainty K_{hw} 1,20 m/sec²
Measurement in accordance with EN ISO 5395-2, EN 20643

In accordance with
2000/14/EC/S.I.
2001/1701:

Guaranteed sound power level L_{WAd}	98 dB(A)
Uncertainty K_{WA}	1 dB(A)
In accordance with EN ISO 5395-2:	
Sound pressure level at workplace L_{pA}	86 dB(A)
Uncertainty K_{pA}	2 dB(A)
L/W/H	176/59/116 cm

RM 756.0 GC

Self-propulsion, rear wheels	3 V (3-speed)
Weight	60 kg

RM 756.0 GS

Self-propulsion, rear wheels	3 V (3-speed)
Weight	60 kg

RM 756.0 YC

Self-propulsion, rear wheels	Hydrostatic gearbox, continuously variable
Weight	61 kg

RM 756.0 YS

Self-propulsion, rear wheels	Hydrostatic gearbox, continuously variable
Weight	60 kg

17.1 REACH

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

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

18. Troubleshooting

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

📖 See engine instruction manual.

Fault:

Engine does not start

Possible cause:

- Throttle lever set to Stop position
- Choke is not actuated
- No fuel in tank
- Inferior, dirty or old fuel in tank
- Insufficient flow of fuel
- Spark plug dirty or damaged
- Incorrect electrode gap
- Spark plug socket detached from the spark plug
- Engine is flooded due to several starting attempts
- Dirty air filter
- Throttle cable is damaged (e.g. kinked)

Remedy:

- Set throttle lever to the Choke or Start position (⇒ 10.1)
- Set throttle lever to the Choke position (⇒ 10.1)
- Refill fuel tank (⇒ 7.5)

- Clean fuel system and carburettor; always use fresh, good quality fuel 📖, ✖, (⇒ 7.5)
- Check fuel line 📖, ✖
- Clean or replace spark plug 📖
- Adjust electrode gap ✖
- Connect spark plug socket; check connection between ignition lead and socket ✖
- Remove spark plug and dry; set throttle lever to STOP position and pull recoil starter rope several times with spark plug removed; screw in spark plug and connect spark plug socket 📖
- Clean/replace air filter 📖
- Repair throttle cable ✖

Fault:

Starting problems or deteriorating engine power

Possible cause:

- Mowing at an excessively low cutting height or fast speed
- Water in fuel tank and carburettor; carburettor blocked
- Fuel tank contaminated
- Air filter dirty
- Spark plug dirty

Remedy:

- Adapt cutting height and reduce mowing speed
- Empty fuel tank, clean fuel line and carburettor ✖
- Clean fuel tank ✖
- Clean/replace air filter 📖, ✖
- Clean spark plug ✖

Fault:

Engine cuts out during operation

Possible cause:

- Fuel cock closed
- Tank ventilation screw closed

- Blade brake clutch overloaded

Remedy:

- Open the fuel cock (⇒ 10.1)
- Open the tank ventilation screw (⇒ 10.1)
- Clean the mowing channel, empty the grass catcher bag (⇒ 9.)

Fault:

No drive when self-propulsion lever is actuated

Possible cause:

- Self-propulsion cable incorrectly adjusted
- Self-propulsion cable damaged (e.g. kinked)
- V-belt worn

Remedy:

- Check the adjustment (⇒ 11.9)
- Replace the cable ✖
- Replace the V-belt ✖

Fault:

Engine overheating

Possible cause:

- Oil level in engine too low
- Cooling ribs dirty

Remedy:

- Perform an engine oil change if necessary 📖
- Clean cooling ribs (⇒ 11.3)

Fault:

Poor cut, lawn turning yellow

Possible cause:

- Mowing blade is blunt or worn,
- Rate of feed is too high in relation to the cutting height

- Engine speed is too low

Remedy:

- Re-sharpen or replace mowing blade (⇒ 11.6)
- Reduce rate of feed and/or select correct cutting height (⇒ 9.), (⇒ 7.3)
- Set the throttle lever to the Start position (⇒ 10.1)

Fault:

Mowing channel blocked

Possible cause:

- Mowing blade is worn
- Mowing grass which is too long or too wet
- Engine speed is too low

Remedy:

- Replace the mowing blade (⇒ 11.6)
- Adapt the cutting height and mowing speed to the mowing conditions (⇒ 9.), (⇒ 7.3)
- Set the throttle lever to the Start position (⇒ 10.1)

Fault:

Excessive vibration during operation

Possible cause:

- Cutting unit defective
- Mowing blade imbalance
- Engine mounting loose

Remedy:

- Check mowing blade, blade shaft and blade fastening screws; tighten blade fastening screws (⇒ 11.7)
- Re-sharpen/replace mowing blade (⇒ 11.8)
- Tighten engine mounting bolts ✖

Fault:

Petrol runs out of the tank cap when the machine is placed in the cleaning position

Possible cause:

- Tank ventilation screw was tightening too firmly

Remedy:

- Replace tank cap ✖



Service performed on



Next service date

19. Service schedule

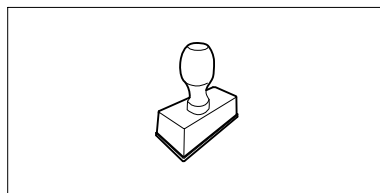
19.1 Handover confirmation

Model: _____

Serial number:

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Date: _ _ _ _ _ _ _ _



Next service

Date: _ _ _ _ _ _ _ _

19.2 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.