HS 82

STIHL



2 - 20 Instruction Manual





Contents

1 Guide to Using this Manual....2
2 Safety Precautions and Working Techniques....2
3 Using the Unit....7
4 Fuel....8
5 Fueling....9
6 Rear Handle....11
7 Starting / Stopping the Engine....11
8 Cleaning the Air Filter....12
9 Adjusting the Carburetor....13
10 Spark Plug....14
11 Lubricating the Gearbox....14
12 Storing the Machine....15
13 Sharpening Instructions....15
14 Maintenance and Care....16
15 Minimize Wear and Avoid Damage....17
16 Main Parts....18
17 Specifications....18
18 Maintenance and Repairs....20
19 Disposal....20
20 EU conformity....20
21 Addresses....20

1 Guide to Using this Manual

1.1 Image symbols

The meanings of the image symbols on the tool are explained in this manual.

Depending on the model concerned, the following image symbols may be on your machine.



Fuel tank; fuel mixture of gasoline and engine oil



Operate manual fuel pump



Filler hole for gear lubricant



Rotating handle



This symbol shows the minimum and maximum permissible ethanol content in the gasoline. The gasoline must be mixed with two-stroke engine oil.

1.2 Symbols in text

WARNING

Warning where there is a risk of an accident or personal injury or serious damage to property.

NOTICE

Caution where there is a risk of damaging the machine or its individual components.

1.3 Engineering improvements

STIHL's philosophy is to continually improve all of its products. For this reason we may modify the design, engineering and appearance of our products periodically.

Therefore, some changes, modifications and improvements may not be covered in this manual.

2 Safety Precautions and Working Techniques



Special safety precautions are necessary when working with this machine because it has very sharp, high-speed cutting blades.



Before commissioning, it is important to read and understand the User Manual and to keep it in a safe place for future reference. Failure to observe the User Manual may lead to serious or even fatal injury.

Comply with all applicable local safety regulations, e.g., by employers' liability insurance associations, social insurance systems, occupational safety authorities, etc.

If you have never used the power tool before: Have your dealer or other expert show you how to safely operate your machine – or attend a specialist course.

Minors are not allowed to work with the power tool – except adolescents above 16 years of age who are instructed under supervision.

Children, animals and onlookers must not be allowed near the machine.

When not using the machine, it must be laid down in such a way that it does not endanger anyone. Ensure that the machine cannot be used without authorization.

The user is responsible for accidents or risks involving other persons or their property.

Original Instruction Manual
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Do not lend or rent out your power tool without the User Manual. Be sure that anyone using it understands the information contained in this manual.

The use of machines that emit noise may be limited to certain hours of the day as specified by national and/or regional or local regulations.

Anyone operating the machine must be well rested, in good physical health and in a good state of mind.

If you have any condition that might be aggravated by strenuous work, check with your doctor before operating a machine.

If you have a pacemaker: The ignition system of your machine produces an electromagnetic field of very low intensity. This field may interfere with some pacemakers. STIHL recommends that persons with pacemakers consult their physician and the pacemaker manufacturer to minimize any health risk.

Anyone who has consumed alcohol, medications or drugs that impair their ability to react must not operate a power tool.

Use the machine only for cutting hedges, shrubs, bushes, scrub and the like. The machine must not be used for any other purposes – **risk of accident!**

Other uses are not permitted and may lead to accidents or damage to the machine. Never attempt to modify the product in any way since this may result in accidents or damage to the power tool.

Only use cutting blades and accessories that are explicitly approved for this power tool by STIHL or are technically identical. If you have any questions in this respect, consult your dealer. Use only high-quality parts and accessories. Otherwise there is a risk of accidents and damage to the power tool.

STIHL recommends the use of genuine STIHL tools and accessories. They are specifically designed to match the product and meet your performance requirements.

Never attempt to modify your power tool in any way since this may increase the risk of personal injury. STIHL excludes all liability for personal injury and damage to property caused while using unauthorized attachments.

Do not use a high-pressure washer to clean the power tool. The solid jet of water may damage parts of the unit.

2.1 Clothing and equipment

Wear proper protective clothing and equipment.



Clothing must be sturdy but allow complete freedom of movement. Wear close-fitting clothes such as a boiler suit, not a loose jacket.

Do not wear clothing that could become trapped in wood, brush or moving parts of the machine. Do not wear a scarf, necktie or jewelry. Tie up and secure long hair above your shoulders.

Wear sturdy shoes with non-slip soles.



WARNING



To reduce the risk of eye injuries, wear close-fitting safety glasses in accordance with European standard EN 166, EN ISO 16321. Make sure the safety glasses fit snugly.

Wear "personal" sound protection, e.g., ear defenders.



Wear sturdy protective gloves made of a resistant material (e. g. leather).

STIHL offers a comprehensive range of personal protective equipment.

2.2 Transporting the power tool

Always stop the engine.

Attach the blade scabbard even when carrying the machine over short distances.

Carry the power tool by the handle – cutting blades behind you. Do not touch hot parts of the machine, especially the muffler and gear housing – **risk of burns!**

By vehicle: When transporting in a vehicle, properly secure your machine to prevent turnover, damage and fuel spillage.

2.3 Refueling



Gasoline is an extremely flammable fuel. Keep clear of naked flames. Do not spill any fuel – do not smoke.

Always **shut off the engine** before refueling.

Do not fuel a hot engine – **fuel may spill and cause a fire.**

Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly and to prevent fuel spraying out.

Only refuel the machine in a well ventilated place. If fuel has been spilled, immediately clean the machine – do not allow your clothes to be splashed with fuel. If that happens, change your clothes at once.



Place the clip lock fuel cap (bayonet-type) in position, turn it as far as it will and fold the clip lock down.

This helps reduce the risk of unit vibrations causing an incorrectly tightened fuel cap to loosen or come off and spill quantities of fuel.

Check for leaks. Do not start the engine if there is a fuel leak – **serious or fatal burns could result!**

2.4 Before starting

Check that your power tool is properly assembled and in good condition – refer to appropriate chapters in the User Manual:

- Check the fuel system for leaks, especially the visible parts, e. g., fuel cap, hose connections, manual fuel pump (only in machines with a manual fuel pump). In case of leakage and damage, do not start the engine – **risk of fire!** Have the machine serviced by a dealer before using it
- The stop switch must move easily in direction of **0** and spring back to the normal run position **I**.
- Smooth action of throttle trigger lockout and throttle trigger – the throttle trigger must return automatically to the idle position
- Check that the spark plug boot is secure – a loose boot may cause sparking that could ignite combustible fumes **and cause a fire!**
- Cutting blades must be properly tightened and in safe operating condition (clean, sharp, not bent or warped), correctly mounted and thoroughly sprayed with STIHL resin solvent (lubricant)
- Checking the cut protection for damage
- Never attempt to modify the controls or safety devices.
- Keep the handles dry and clean – free from oil and dirt – this is important for safe control of the machine.

The power tool must only be operated when it is in good operating condition – **Risk of accident!**

2.5 Starting the engine

Start the engine at least 3 meters from the refueling spot and only outdoors.

Place the power tool on firm ground in an open area. Make sure you have good balance and secure footing. Hold the power tool securely. The cutting blades must be clear of the ground and all other obstructions because they may begin to run when the engine starts.

Your power tool is designed to be operated by one person only. Do not allow other persons in the work area – even when starting.

Avoid contact with the cutting blades – **risk of injury!**

Do not drop-start the engine – start it as described in the User Manual.

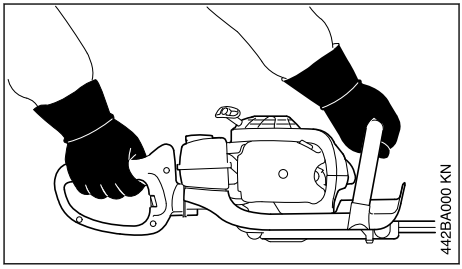
Note that the cutting blades continue to run for a short period after the throttle trigger is released – **flywheel effect!**

Check engine idling: The cutting blades must remain at a standstill when the engine idles – throttle trigger released.

2.6 Holding and guiding the power tool

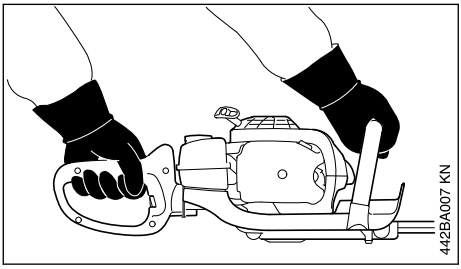
Always hold the unit firmly with both hands on the handles. Wrap your fingers and thumbs firmly around the handles.

2.6.1 Right-handed users



Right hand on the control handle and left hand on the handlebar.

2.6.2 Left-handed users



Left hand on the control handle and right hand on the handlebar.

Make sure you always have a secure footing and hold the machine so that the cutting blades are always facing away from your body.

2.7 While working

In the event of impending danger or in an emergency, switch off the engine immediately – move the stop switch in the direction of **0**.

Ensure that there are no other people within the working area.

Watch the cutting blades at all times – do not cut areas of the hedge that you cannot see.

Be extremely careful when cutting tall hedges; check the other side of the hedge before starting work.

Check for correct idling, so that the cutting blades stop moving when the throttle trigger is released.

If the cutting blades still move, have the machine repaired by your specialist dealer. Check and correct the idle speed setting at regular intervals.

Note that the cutting blades continue to run for a short period after the throttle trigger is released – **flywheel effect!**

The gear head becomes hot during operation. Do not touch the gear housing – **risk of burns!**

Take special care in **slippery conditions** – damp, snow, ice, on slopes or uneven ground!

Clear away fallen branches, scrub and cuttings.

Watch out for obstacles: tree stumps, roots – **risk of tripping or stumbling!**

Make sure you always have a firm and secure footing.

2.7.1 When Working at Height:

– Always use a lift bucket
– Never use the machine while standing on a ladder or in a tree
– never work on an unstable surface
– Never use the machine with just one hand

Be particularly alert and cautious when wearing ear protection because your ability to hear warnings (shouts, alarms, etc.) is impaired.

Take breaks when you start getting tired or feeling fatigue – **risk of accidents!**

Work calmly and carefully – in daylight conditions and only when visibility is good. Proceed with caution, do not put others in danger.



As soon as the engine starts running, the power tool generates toxic exhaust gas. These gases may be odorless and invisible and may contain unburned hydrocarbons and benzene. Never run the engine indoors or in poorly ventilated locations, even if your model is equipped with a catalytic converter.

To reduce the risk of **serious or fatal injury from breathing toxic fumes**, ensure proper ventilation when working in trenches, hollows or other confined locations.

Stop work immediately if you start suffering from nausea, headaches, impaired vision (e.g. your field of vision gets smaller), impaired hearing, dizziness, or impaired concentration – these symptoms may possibly be the result of too-high exhaust gas concentration – **risk of accidents!**

Operate your power tool in such a way that it produces a minimum of noise and emissions – do not run the engine unnecessarily, accelerate the engine only when working.

To reduce the risk of fire, **do not smoke** while operating or standing near your power tool. Combustible fuel vapor may escape from the fuel system.

If your power tool is subjected to unusually high loads for which it was not designed (e.g. heavy impact or a fall), always check that it is in good condition before continuing work – see also "Before Starting". Check in particular that the fuel system has no leaks and the safety equipment is fully operative. Never use a power tool that is no longer safe to operate. In case of doubt, contact a STIHL authorized dealer.

Do not operate your power tool in the starting throttle position – engine speed cannot be controlled in this position.

Inspect the hedge and work area to avoid damaging the cutting blades:
– Remove stones, rocks, pieces of metal and other solid objects
– Ensure that no sand or small stones get between the cutting blades, e.g. when working close to the ground.
– When cutting hedges next to or against wire fences, do not touch wire with the cutting blades

Do not touch electric power lines – never cut through electric power lines – **risk of electrocution!**



Do not touch the cutting blades.while the engine is running. If the cutting blades become jammed by an object, switch off the engine immediately before attempting to remove the object – **risk of injury!**

Opening the throttle when the cutting blades are jammed increases the load and reduces the working speed of the engine. The clutch then slips continuously and this can cause overheating and damage to important components (e.g. clutch, plastic housing components) – as a result, there is a **risk of injury** from the idling cutting blades!

If the hedge is very dusty or dirty, spray the cutting blades with STIHL resin solvent from time to time during cutting. This will significantly reduce blade friction, the aggressive effects of sap and the build-up of dirt particles.

The dust which is generated during operation may be harmful to health. Wear a dust mask in case of dust production.

Before you leave the machine: Shut the engine off.

Check the cutting blades at regular, frequent intervals during operation or immediately if there is a noticeable change in cutting behavior:
– Shut off the engine
– Wait for cutting blades to come to a standstill
– Check condition and tightness of connections, look out for fine cracks
– Ensure that the cutting blades are sharp

Always clean plant residue, chips, leaves and excess lubricant off the engine and muffler – **risk of fire!**

2.8 After finishing work

Always clean dust and dirt off the machine – do not use any grease solvents for this purpose.

Spray the cutting blades with STIHL resin solvent. Run the engine briefly until the solvent is evenly distributed.

2.9 Vibrations

Prolonged use of the power tool may result in vibration-induced circulation problems in the hands (whitefinger disease).

No general recommendation can be given for the length of usage because it depends on several factors.

The period of usage is prolonged by:
– Hand protection (wearing warm gloves)
– Work breaks

The period of usage is shortened by:
– Any personal tendency to suffer from poor circulation (symptoms: frequently cold fingers, tingling sensations).
– Low outside temperatures.
– The force with which the handles are held (a tight grip restricts circulation).

Continual and regular users should monitor closely the condition of their hands and fingers. If any of the above symptoms appear (e.g. tingling sensation in fingers), seek medical advice.

2.10 Maintenance and Repairs

Service the machine regularly. Do not attempt any maintenance or repair work not described in the instruction manual. Have all other work performed by a servicing dealer.

STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer. STIHL dealers are regularly given the opportunity to attend training courses and are supplied with the necessary technical information.

Only use high-quality replacement parts in order to avoid the risk of accidents and damage to the power tool. If you have any questions in this respect, consult a servicing dealer.

STIHL recommends the use of original STIHL replacement parts. They are specifically designed to match your model and meet your performance requirements.

To reduce the risk of injury, **always shut off the engine** before carrying out any maintenance or repairs or cleaning the machine. – Exception: Carburetor and idle speed adjustments.

Do not turn the engine over on the starter with the spark plug boot or spark plug removed since

there is otherwise a **risk of fire** from uncontained sparking.

To reduce the **risk of fire**, do not service or store your machine near open flames.

Check the fuel filler cap for leaks at regular intervals.

Use only a spark plug of the type approved by STIHL and make sure it is in good condition – see "Specifications".

Inspect the ignition lead (insulation in good condition, secure connection).

Check the condition of the muffler.

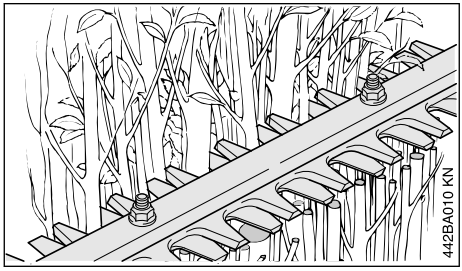
To reduce the risk of fire and damage to hearing, do not operate your machine if the muffler is damaged or missing.

Do not touch a hot muffler since **burn injury** will result.

Vibration behavior is influenced by the condition of the AV elements – check the AV elements at regular intervals.

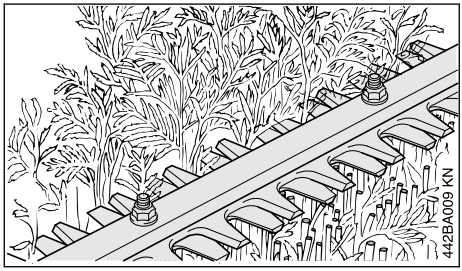
3 Using the Unit

3.1 HS 82 R



The HS 82 R is designed for cutting hedges and shrubs with thicker stems and branches.

3.2 HS 82 T



The HS 82 T is designed for shaping and trimming hedges and shrubs with thinner branches.

Use the HS 82 R hedge trimmer for cutting hedges with thicker branches.

3.3 Cutting Season

Observe country-specific or municipal rules and regulations for cutting hedges.

Do not use your power tool during other people's normal rest periods.

3.4 Cutting Sequence

Use lopping shears or a chain saw to cut out thick branches first.

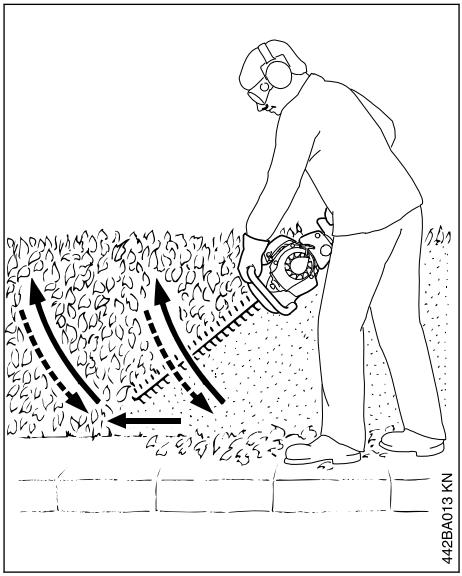
Cut both sides of the hedge first, then the top.

3.5 Disposal

Do not throw cuttings in the garbage can – they can be composted!

3.6 Working Technique

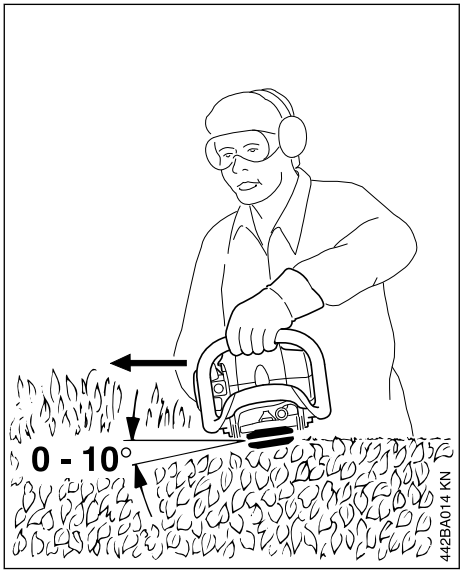
3.6.1 Vertical Cut



Swing the cutting blade from the bottom upwards in an arc – lower the nose of the blade, move along the hedge and then swing the blade up again in an arc.

Any working position above head height is tiring. To minimize the risk of accidents, work in such positions for short periods only.

3.6.2 Horizontal Cut



Hold the cutter bar at an angle of 0° to 10° as you swing the hedge trimmer horizontally.

Swing the cutting blade in an arc towards the outside of the hedge so that the cuttings are swept to the ground.

4 Fuel



The fuel is a mixture of two-stroke engine oil and gasoline in a mixing ratio of 1:50.

The permissible minimum and maximum ethanol content in the gasoline is shown on the product.

WARNING

Avoid direct skin contact with fuel and breathing in of gasoline fumes.

4.1 STIHL MotoMix

For products with the specification E0 - E10: STIHL recommends using STIHL MotoMix. This pre-blended fuel is free of benzene and lead, has a high octane rating and always provides the proper mixing ratio.

STIHL MotoMix uses STIHL HP Ultra two-stroke engine oil for optimum engine life.

MotoMix is not available in all markets.

4.2 Mixing fuel

NOTICE

Unsuitable fuels or a mixing ratio that deviates from the specification can lead to severe engine damage. The engine, seals, fuel lines and fuel tank may be damaged if low-quality gasoline or engine oil is used.

4.2.1 Gasoline

Use only **high-quality gasoline** with an octane rating of at least 90 ROC – leaded or unleaded.

Make sure that the permissible ethanol contents is within the required limits.

4.2.2 Engine oil

If you mix the fuel yourself, use only STIHL two-stroke engine oil or another high-performance engine oil classified as JASO FB, JASO FC, JASO FD, ISO-L-EGB, ISO-L-EGC or ISO-L-EGD.

STIHL specifies STIHL HP Ultra two-stroke engine oil or an equivalent high-performance engine oil in order to maintain emission limits over the machine's service life.

4.2.3 Mixing ratio

with STIHL two-stroke engine oil 1:50; 1:50 = 1 part oil + 50 parts gasoline

4.2.4 Examples

Quantity of gasoline	STIHL two-stroke engine oil 1:50
Liters	Liters (ml)
1	0.02 (20)
5	0.10 (100)
10	0.20 (200)
15	0.30 (300)
20	0.40 (400)
25	0.50 (500)

- ► Pour oil into an approved safety fuel canister first, then add gasoline and mix thoroughly

4.3 Storing fuel mixture

Store in approved safety fuel canisters only in a dry, cool and secure place protected against light and sunlight.

Fuel mixture deteriorates with age – mix only as much as needed for a few weeks. Do not store fuel mixture for longer than 30 days. The fuel mixture can become unusable more quickly if exposed to light, sunlight or low or high temperatures.

STIHL MotoMix however can be stored for up to 5 years without any problems.

- Shake the canister containing the fuel mixture thoroughly before refueling

WARNING

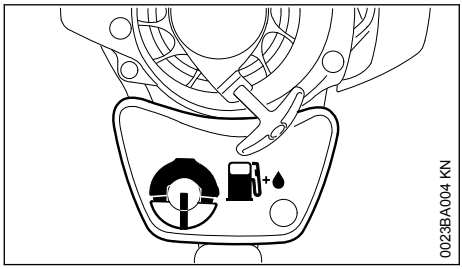
Pressure may have built up in the canister – open it carefully.

- The fuel tank and the canister in which fuel mixture is stored should be cleaned thoroughly from time to time

Residual fuel and the liquid used for cleaning must be disposed of properly in accordance with environmental regulations!

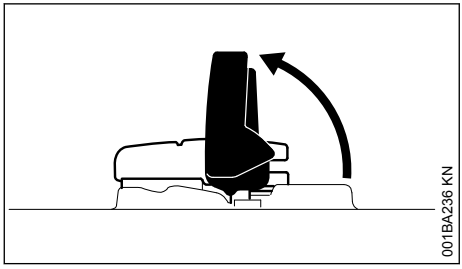
5 Fueling

5.1 Preparations

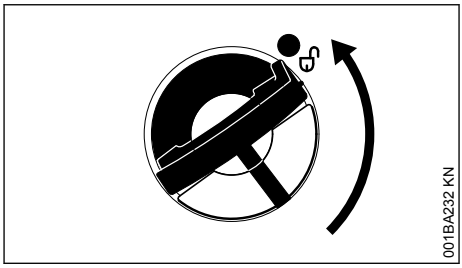


- Before fueling, clean the filler cap and the area around it to ensure that no dirt falls into the tank.
- Position the machine so that the tank cap faces up.

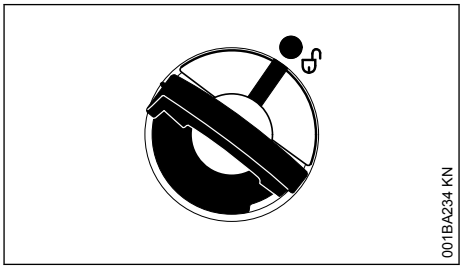
5.2 Opening



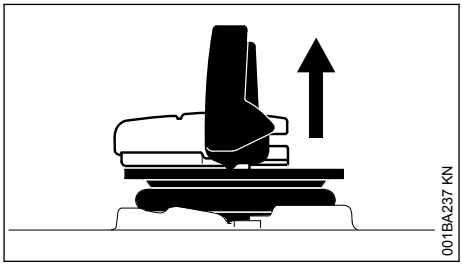
- Raise grip to vertical position.



- Turn the cap counterclockwise (about a quarter turn).



Marks on tank cap and fuel tank must line up.



- Remove the tank cap.

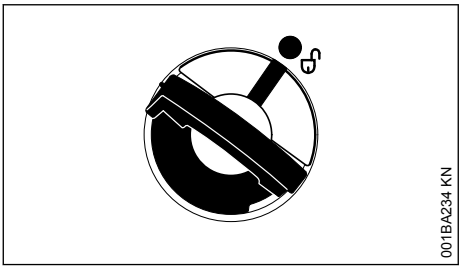
5.3 Filling Up with Fuel

Take care not to spill fuel while fueling and do not overfill the tank.

STIHL recommends you use the STIHL filler nozzle for fuel (special accessory).

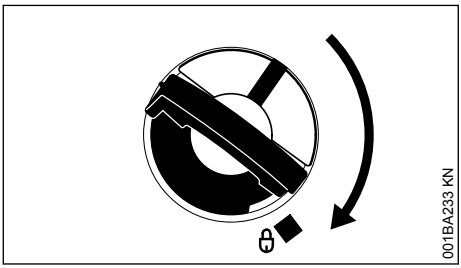
- Fill the fuel tank.

5.4 Closing

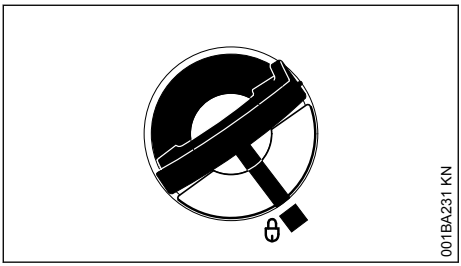


Grip must be vertical:

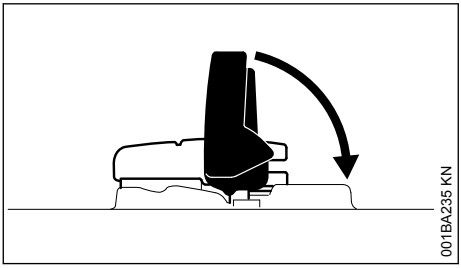
- ► Fit the cap – marks on tank cap and fuel tank must line up.
- ► Press the cap down as far as stop.



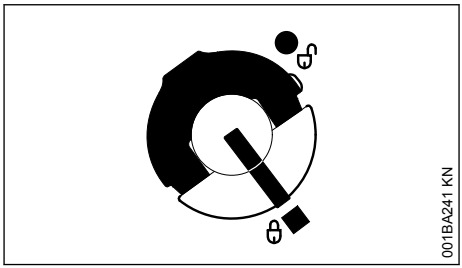
- ► While holding the cap depressed, turn it clockwise until it engages in position.



The marks on the tank cap and fuel tank are then in alignment.



- ► Fold the grip down.

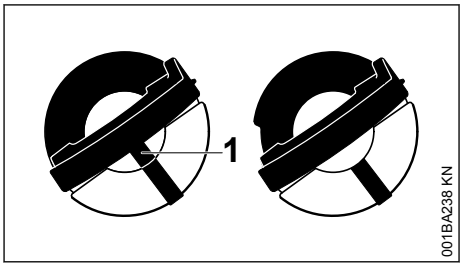


Tank cap is locked.

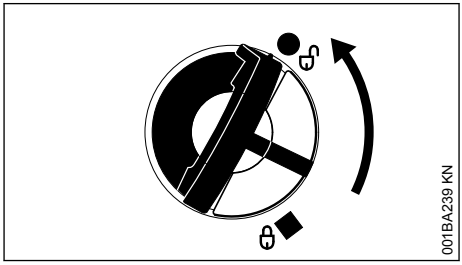
5.5 If the tank cap cannot be locked in the fuel tank opening

Bottom of cap is twisted in relation to top.

- ► Remove the cap from the fuel tank and check it from above.

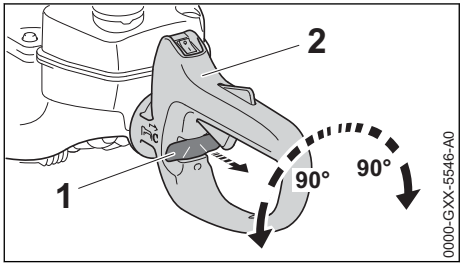


Left:	Bottom of cap is twisted – inner mark (1) in line with outer mark.
Right:	Bottom of cap in correct position – inner mark is under the grip. It is not in line with the outer mark.



- ► Place the cap on the opening and rotate it counterclockwise until it engages the filler neck.
- ► Continue rotating the cap counterclockwise (about a quarter turn) – this causes the bottom of the cap to be turned to the correct position.
- ► Turn the cap clockwise and lock it in position – see section on "Closing".

6 Rear Handle



The rear handle can be turned through 90° to the left or right for better control and comfort in all cutting situations.

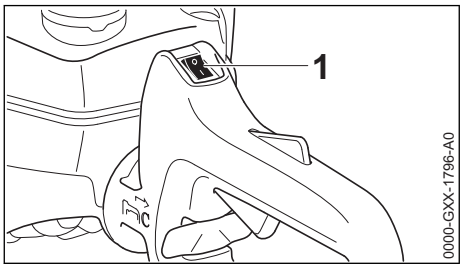
- ► Let go of the throttle trigger. Do not open the throttle.
- ► Disengage the lock (1).
- ► Turn the handle (2) to the required position and re-engage the lock (1).

The throttle trigger may be used again when the handle is locked in position.

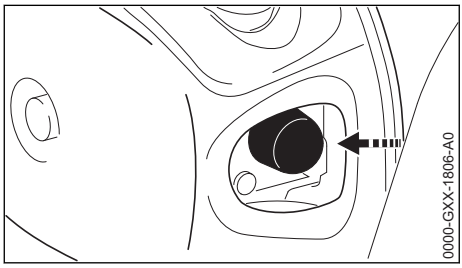
Do not operate the throttle while the handle lock is disengaged. Never disengage the lock while you are operating the throttle.

7 Starting / Stopping the Engine

- ► Observe safety precautions – see chapter on "Safety Precautions and Working Techniques".

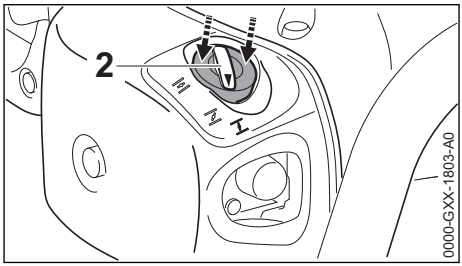


The stop switch (1) is in the normal run position **I**.



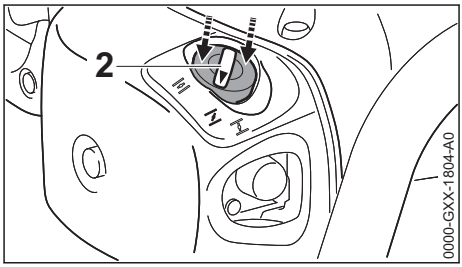
- ► Press the manual fuel pump bulb at least five times – even if the bulb is filled with fuel.

Cold engine (cold start)



- ► Depress the outer ring (arrows) of the choke knob (2) and then turn it to .

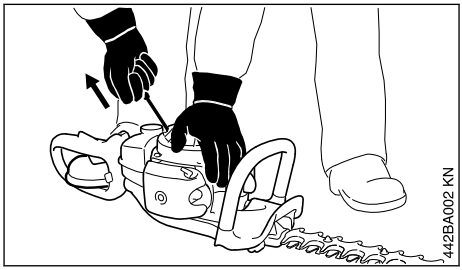
Warm engine (warm start)



- ► Depress the outer ring (arrows) of the choke knob (2) and then turn it to .

Also use this setting if the engine has been running but is still cold.

7.1 Cranking



- ► Place the machine on the ground.
- ► Remove the blade scabbard. Check that the cutting blades are not touching the ground or any other obstacles.
- ► Make sure you have a safe and secure footing.
- ► Hold the machine firmly with your left hand on the fan housing and press down.
- ► Hold the starter grip with your right hand.

7.1.1 Version without ErgoStart

- Pull the starter grip slowly until you feel it engage and then give it a brisk strong pull.

NOTICE

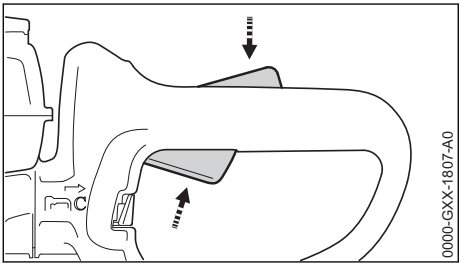
Do not pull out the starter rope all the way – **it might otherwise break**.

- Do not let the starter grip snap back. Guide it slowly back into the housing so that the starter rope can rewind properly.

7.1.2 Version with ErgoStart

- Pull the starter grip steadily.

7.2 As Soon As the Engine Runs



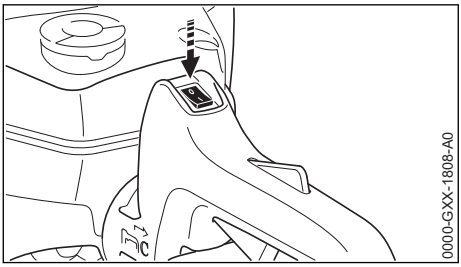
- Press down the throttle trigger lockout and open the throttle – the choke knob moves to the run position. After a cold start, warm up the engine by opening the throttle several times.

WARNING

Make sure the carburetor is correctly adjusted. The cutting attachment must not run when the engine is idling.

Your machine is now ready for operation.

7.3 Shut off the engine.



- Move the stop switch in the direction of **0** – when released, the stop switch springs back to the normal run position **I**.

7.4 Other Hints on Starting

7.4.1 At very low outside temperatures – warm up the engine

As soon as the engine runs:

- Allow engine to run in starting throttle position for about 10 seconds.
- Open the throttle wide – the slide control springs back to the normal run position and the engine returns to idling speed.

Engine does not start in warm start position

- Move the choke knob to and continue cranking until the engine runs.

If the engine does not start

- Check that all settings are correct.
- Check that there is fuel in the tank and refuel if necessary.
- Check that the spark plug boot is properly connected.
- Repeat the starting procedure.

Engine is flooded

- Depress the outer ring of the choke knob and then turn it to – continue cranking until engine runs.

Fuel tank run until completely dry

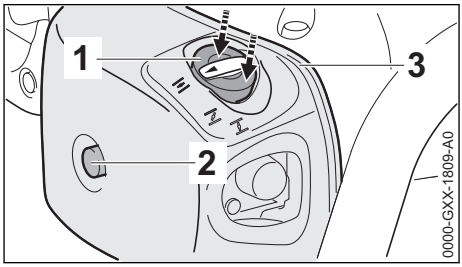
- After refueling, depress the manual fuel pump bulb at least 5 times – even if the bulb is already filled with fuel.
- Set the choke knob to suit the engine temperature.
- Now start the engine.

8 Cleaning the Air Filter

The machine is equipped with either a felt or paper filter element.

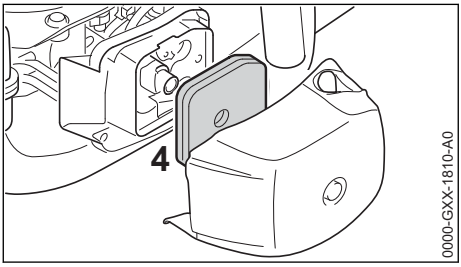
8.1 If There is a Noticeable Loss of Engine Power

8.1.1 Felt filter

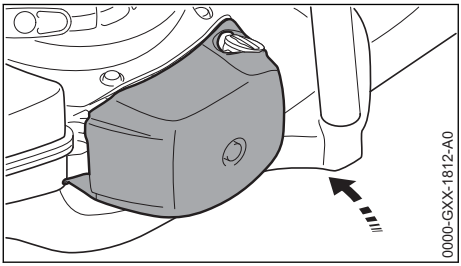


- Take out the screw (2).

- Depress the outer ring (arrows) of the choke knob (1) and then turn it to ⇄.
- Depress the outer ring (arrows) of the choke knob (1) and hold it depressed.
- Remove the filter cover (3).

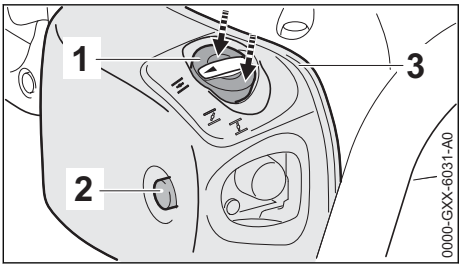


- Clean away loose dirt from around the filter.
- Remove the filter element (4).
- Fit a new filter element. As a temporary measure you can knock it out on the palm of your hand or blow it out with compressed air. Do not wash.
- Fit the filter element.

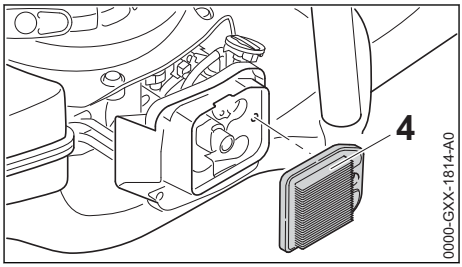


- Depress the outer ring of the choke knob and fit the filter cover.
- Insert the screw and tighten it down firmly.

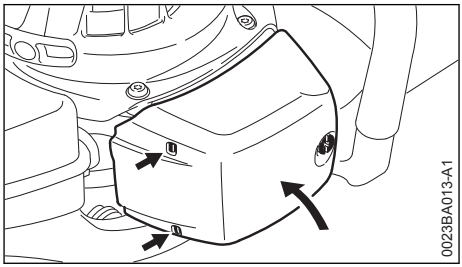
8.1.2 Paper filter



- Take out the screw (2).
- Depress the outer ring (arrows) of the choke knob (1) and then turn it to ⇄.
- Depress the outer ring (arrows) of the choke knob (1) and hold it depressed.
- Remove the filter cover (3).
- Clean away loose dirt from around the filter and inside the filter cover.



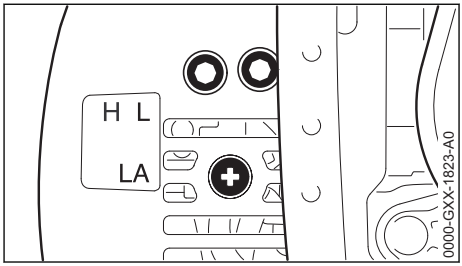
- Remove and check the filter element (4) – replace if dirty or damaged.
- Fit the filter in the filter housing.



- Position filter cover against the left side of the filter housing and swing it to the right – the two lugs (arrows) must engage the filter cover openings.
- Depress the outer ring of the choke knob and close the filter cover.
- Insert the screw and tighten it down firmly.

9 Adjusting the Carburetor

9.1 General Information



This setting provides an optimum fuel-air mixture under most operating conditions.

9.2 Preparations

- Shut off the engine.
- Check the air filter and clean or replace if necessary.

- Inspect cutting blades and clean if necessary (clean, move freely, not warped).

9.3 Adjusting Idle Speed

Engine stops while idling

- Warm up the engine for about 3 minutes.
- Turn the idle speed screw (LA) slowly clockwise until the engine runs smoothly – the cutting blades must not move.

Cutting blades run when engine is idling

- Turn the idle speed screw (LA) counterclockwise until the cutting blades stop moving and then turn the screw about another 1/2 to 3/4 turn in the same direction.

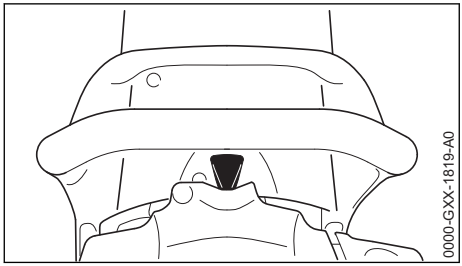
WARNING

If the cutting blades continue to run while the engine is idling, have your power tool checked and repaired by your servicing dealer.

10 Spark Plug

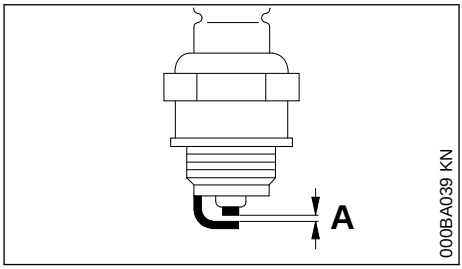
- If the engine is down on power, difficult to start or runs poorly at idle speed, first check the spark plug.
- Fit a new spark plug after about 100 operating hours – or sooner if the electrodes are badly eroded. Install only suppressed spark plugs of the type approved by STIHL – see "Specifications".

10.1 Removing the Spark Plug



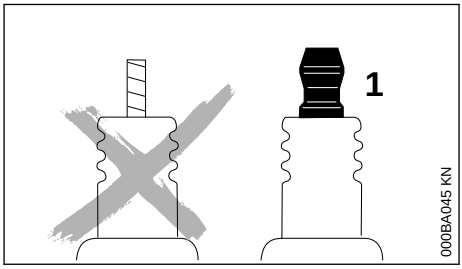
- Pull off the spark plug boot.
- Unscrew the spark plug.

10.2 Checking the Spark Plug



- Clean dirty spark plug.
- Check electrode gap (A) and readjust if necessary – see "Specifications".
- Rectify the problems which have caused fouling of the spark plug.

Possible causes are:
– Too much oil in fuel mix.
– Dirty air filter.
– Unfavorable running conditions.



WARNING

Arcing may occur if the adapter nut (1) is loose or missing. Working in an easily combustible or explosive atmosphere may cause a fire or an explosion. This can result result in serious injuries or damage to property.

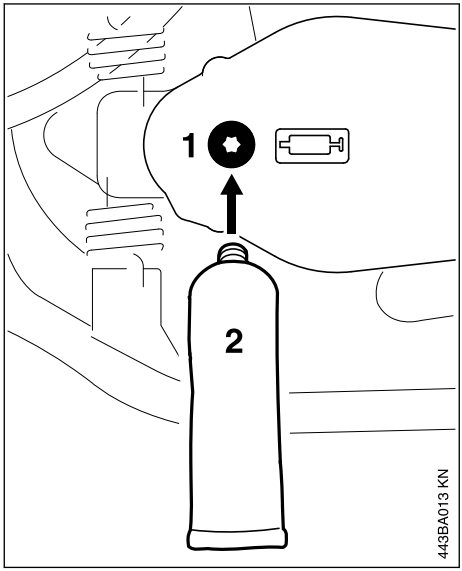
- Use resistor type spark plugs with a properly tightened adapter nut.

10.3 Installing the spark plug

- Fit the spark plug by hand and screw it in
- Tighten spark plug with combination wrench
- Press the spark plug boot firmly onto the spark plug

11 Lubricating the Gearbox

Use STIHL gear lubricant for hedge trimmers (special accessory) for lubricating the blade drive gear.



After about 25 hours of operation:
- ► Remove the screw plug (1) from the gear housing on the underside of the unit.
- ► Screw the tube of grease (2) into the filler hole.
- ► Squeeze up to 5 g grease into the gearbox.

NOTICE

Do not completely fill the gearbox with grease.

- ► Remove the tube of grease (2).
- ► Refit the filler plug and tighten it down firmly.

12 Storing the Machine

If out of use for periods of about 30 days or longer

- ► Drain and clean the fuel tank in a well-ventilated area.
- ► Dispose of fuel properly in accordance with local environmental requirements.
- ► If a manual fuel pump is fitted: Press the manual fuel pump at least 5 times.
- ► Start the engine and run it at idling speed until it stops
- ► Clean cutting blades, check condition and spray with STIHL resin solvent
- ► Attach blade scabbard
- ► Thoroughly clean the machine, especially the cylinder fins and air filter
- ► Store the machine in a dry and secure location. Keep out of the reach of children and other unauthorized persons

13 Sharpening Instructions

When cutting performance and behavior begin to deteriorate, i.e. blades frequently snag on branches: Resharpen the cutting blades.

It is best to have the cutting blades resharpened by a dealer on a workshop sharpener. STIHL recommends a STIHL servicing dealer.

It is also possible to use a flat crosscut sharpening file. Hold the sharpening file at the prescribed angle (see "Specifications").
- ► Only sharpen the cutting edge – do not file blunt projecting parts of the cutting blade or the cutting blade guard (see "Main Parts and Controls")
- ► Always file towards the cutting edge.
- ► The file only sharpens on the forward stroke – lift it off the blade on the backstroke.
- ► Use a whetstone to remove burr from cutting edge.
- ► Remove as little material as possible.
- ► After sharpening, clean away filing or grinding dust and then spray the cutting blades with STIHL resin solvent.

NOTICE

Do not operate your machine with dull or damaged cutting blades. This may cause overload and will give unsatisfactory cutting results.

14 Maintenance and Care

The following intervals apply to normal operating conditions only. If your daily working time is longer or operating conditions are difficult (very dusty work area, etc.), shorten the specified intervals accordingly.		**before starting work**	**after finishing work or daily**	**after each refueling stop**	**weekly**	**monthly**	**every 12 months**	**if problem**	**if damaged**	**as required**
Complete machine	Visual inspection (condition, leaks)	X		X						
	Clean		X							
Control handle	Check operation	X		X						
Air filter (felt)	Clean							X		X
	Replace								X	
Air filter (paper)	Clean							X		X
	Replace						X		X	
Manual fuel pump	Check	X								
	Have repaired by servicing dealer[1)]								X	
Pickup body (filter) in fuel tank	Have checked by servicing dealer[1)]							X		
	Have replaced by servicing dealer[1)]						X		X	X
Fuel tank	Clean							X		X
Carburetor	Check idle adjustment	X		X						
	Readjust idle									X
Spark plug	Readjust electrode gap							X		
	Replace after every 100 operating hours									
Cooling air inlet	Visual inspection		X							
	Clean									X
All accessible screws and nuts (not adjusting screws)	Retighten									X
Antivibration elements	Visual inspection	X								
	Have replaced by servicing dealer[1)]							X	X	
Cutting blades	Clean		X							
	Sharpen									X
	Visual inspection	X								

The following intervals apply to normal operating conditions only. If your daily working time is longer or operating conditions are difficult (very dusty work area, etc.), shorten the specified intervals accordingly.		before starting work	after finishing work or daily	after each refueling stop	weekly	monthly	every 12 months	if problem	if damaged	as required
	Have replaced by servicing dealer[1)]								X	
	Adjust adjustable blade clearance[2)]									X
Gearbox lubrication	Check and replenish after every 25 hours of operation									
Safety labels	Replace								X	

[1)]STIHL recommends an authorized STIHL servicing dealer.
[2)]market-specific or available as option

15 Minimize Wear and Avoid Damage

Observing the instructions in this manual helps reduce the risk of unnecessary wear and damage to the power tool.

The power tool must be operated, maintained and stored with the due care and attention described in this owner's manual.

The user is responsible for all damage caused by non-observance of the safety precautions, operating and maintenance instructions in this manual. This includes in particular:
– Alterations or modifications to the product not approved by STIHL.
– Using tools or accessories which are neither approved or suitable for the product or are of a poor quality.
– Using the product for purposes for which it was not designed.
– Using the product for sports or competitive events.
– Consequential damage caused by continuing to use the product with defective components.

15.1 Maintenance Work

All the operations described in the "Maintenance Chart" must be performed on a regular basis. If these maintenance operations cannot be performed by the owner, they should be performed by a servicing dealer.

STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer. STIHL dealers are regularly given the opportunity to attend training courses and are supplied with the necessary technical information.

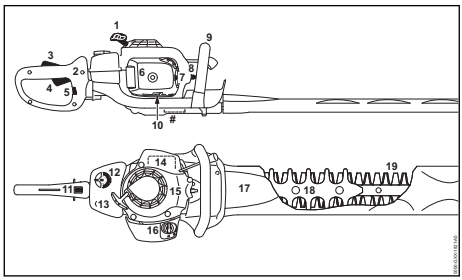
If these maintenance operations are not carried out as specified, the user assumes responsibility for any damage that may occur. Among other parts, this includes:
– Damage to the engine due to neglect or deficient maintenance (e.g. air and fuel filters), incorrect carburetor adjustment or inadequate cleaning of cooling air inlets (intake ports, cylinder fins).
– Corrosion and other consequential damage resulting from improper storage.
– Damage to the machine resulting from the use of poor quality replacement parts.

15.2 Parts Subject to Wear and Tear

Some parts of the power tool are subject to normal wear and tear even during regular operation in accordance with instructions and, depending on the type and duration of use, have to be replaced in good time. Among other parts, this includes:
– Cutting blades
– Clutch
– Filters (air, fuel)
– Rewind starter
– Spark plug

– Components of antivibration system

16 Main Parts



1 Starter Grip
2 Rear Handle
3 Throttle Trigger Lockout
4 Throttle Trigger
5 Handle Lock
6 Filter Cover
7 Manual Fuel Pump
8 Spark Plug Boot
9 Front Handle
10 Carburetor Adjusting Screws
11 Stop Switch
12 Fuel Tank Cap
13 Fuel tank
14 Muffler
15 Fan Housing
16 Choke Lever
17 Blade Scabbard
18 Cutter Guard
19 Cutting Blades
Serial Number

17 Specifications

17.1 Engine

STIHL single-cylinder two-stroke engine

Displacement:	22.7cm^3
Cylinder bore:	34 mm
Piston stroke:	25 mm
Engine power:	0.7 kW (1 hp) at 8500 rpm
Idle speed:	2800 rpm
Cut-off speed:	9300 rpm

17.2 Ignition system

Electronic magneto ignition

Spark plug (suppressed):	NGK CMR6H, Bosch USR 4 AC, STIHL ZK C 10
Electrode gap:	0.5 mm

17.3 Fuel system

All-position diaphragm carburetor with integral fuel pump

Fuel tank capacity: 460 cm^3 (0.46 l)

17.4 Weight

complete with cutting device, dry, without blade scabbard

17.4.1 HS 82 T

600 mm blade:	5.1 kg
750 mm blade:	5.3 kg

17.4.2 HS 82 R

600 mm blade:	5.3 kg
750 mm blade:	5.6 kg

17.4.3 HS 82 RC

600 mm blade:	5.3 kg
750 mm blade:	5.7 kg

17.5 Cutting blades

Sharpening angle to horizontal: 45°

17.6 Noise and vibration values

For determining noise and vibration data, idling and a nominal maximum speed in a ratio of 1:4 are taken into account.

For further details on compliance with Vibration Directive 2002/44/EC, see

www.stihl.com/vib

17.6.1 Sound pressure level L_{peq} according to ISO 22868, uncertainty K: 2 dB(A)

HS 82 T

600 mm blade:	95 dB(A)
750 mm blade:	95 dB(A)

HS 82 R

600 mm blade:	94 dB(A)
750 mm blade:	94 dB(A)

HS 82 RC

600 mm blade:	94 dB(A)
750 mm blade:	94 dB(A)

17.6.2 Sound power level L_{weq} according to ISO 22868, uncertainty K: 2 dB(A)

HS 82 T

600 mm blade:	106 dB(A)
750 mm blade:	106 dB(A)

HS 82 R

600 mm blade:	106 dB(A)
750 mm blade:	106 dB(A)

HS 82 RC

600 mm blade:	106 dB(A)
750 mm blade:	106 dB(A)

17.6.3 Guaranteed sound power level L_{WAd} according to 2000/14/EC

HS 82 T:	104 dB(A)
HS 82 R:	103 dB(A)
all HS 82 RC:	103 dB(A)

17.6.4 Vibration value $a_{hv,eq}$ according to ISO 22867 (without tip guard), uncertainty K_a: 2.0 m/s²

HS 82 T

	Handle, left	Handle, right
600 mm blade:	2.7 m/s²	2.1 m/s²
750 mm blade:	3.6 m/s²	2.2 m/s²

HS 82 R

	Handle, left	Handle, right
600 mm blade:	2.7 m/s²	3.1 m/s²
750 mm blade:	2.4 m/s²	2.8 m/s²

HS 82 RC

	Handle, left	Handle, right
600 mm blade:	2.5 m/s²	2.9 m/s²
750 mm blade:	2.6 m/s²	2.6 m/s²

17.6.5 Vibration value $a_{hv,eq}$ according to ISO 22867 (with tip guard), uncertainty K_a: 2.0 m/s²

HS 82 T

	Handle, left	Handle, right
600 mm blade:	2.7 m/s²	2.1 m/s²
750 mm blade:	3.6 m/s²	2.1 m/s²

HS 82 R

	Handle, left	Handle, right
600 mm blade:	2.4 m/s²	2.6 m/s²
750 mm blade:	2.6 m/s²	2.7 m/s²

HS 82 RC

	Handle, left	Handle, right
600 mm blade:	2.6 m/s²	2.3 m/s²
750 mm blade:	3.2 m/s²	2.8 m/s²

17.6.6 Vibration value p_F according to EN ISO 5349-3

HS 82 T

	Handle, left	Handle, right
600 mm blade:	68 m/s²	28 m/s²
750 mm blade:	68 m/s²	29 m/s²

HS 82 R

	Handle, left	Handle, right
600 mm blade:	47 m/s²	17 m/s²
750 mm blade:	53 m/s²	22 m/s²

HS 82 RC

	Handle, left	Handle, right
600 mm blade:	51 m/s²	23 m/s²
750 mm blade:	56 m/s²	24 m/s²

17.6.7 Uncertainty K_p according to EN ISO 5349-3

HS 82 T:	13 m/s²
HS 82 R:	10 m/s²
HS 82 RC - 600 mm cutting length	10 m/s²
HS 82 RC - 750 mm cutting length	11 m/s²

17.7 REACH

REACH is an EC regulation and stands for the Registration, Evaluation, Authorization and Restriction of Chemical substances.

For information on compliance with the REACH regulation (EC) No. 1907/2006 see

www.stihl.com/reach

17.8 Exhaust Emissions

The CO_2 value measured in the EU type approval procedure is specified at

www.stihl.com/co2

in the product-specific technical data.

The measured CO_2 value was determined on a representative engine in accordance with a standardized test procedure under laboratory conditions and does not represent either an explicit or implied guarantee of the performance of a specific engine.

The applicable exhaust emission requirements are fulfilled by the intended usage and maintenance described in this User Manual. The operating license shall be void if the engine is modified in any way.

18 Maintenance and Repairs

Users of this machine may only carry out the maintenance and service work described in this user manual. All other repairs must be carried out by a servicing dealer.

STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer. STIHL dealers are regularly given the opportunity to attend training courses and are supplied with the necessary technical information.

When repairing the machine, only use replacement parts which have been approved by STIHL for this power tool or are technically identical. Only use high-quality replacement parts in order to avoid the risk of accidents and damage to the machine.

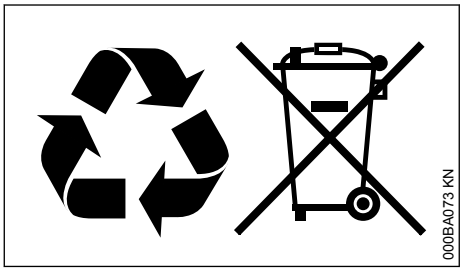
STIHL recommends the use of original STIHL replacement parts.

Original STIHL parts can be identified by the STIHL part number, the STIHL® logo and the STIHL parts symbol (the symbol may appear alone on small parts).

19 Disposal

Contact the local authorities or your STIHL servicing dealer for information on disposal.

Improper disposal can be harmful to health and pollute the environment.



- Take STIHL products including packaging to a suitable collection point for recycling in accordance with local regulations.
- Do not dispose with domestic waste.

20 EU conformity

The EU Declaration of Conformity is available at stihl.link/compliance.

Further information and a form for reporting security vulnerabilities are available at vdp.stihl.com.

CE

21 Addresses

www.stihl.com



www.stihl.com



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