



Contents

Guide to Using this Manual	2
Safety Precautions and Working	0
Techniques	2
Sample applications	10
Cutting wheels	12
Composite resin cutting wheels	13
Diamond cutting wheels	13
Assembling the bearing and guard	16
Tensioning the ribbed V-belt	18
Fitting / replacing an abrasive	
wheel	18
Fuel	19
Fueling	20
Starting / Stopping the Engine	21
Air Filter System	23
Adjusting the Carburetor	24
Spark Arresting Screen in Muffler	25
Checking the Spark Plug	26
Replacing the Starter Rope and	
Rewind Spring	27
Replacing the V-belt	29
Cut-off machine cart	29
Storing the Machine	30
Maintenance and Care	31
Main Parts	33
Specifications	34
Special Accessories	34
Maintenance and Repairs	35
Quality Certification	35

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Dear Customer,

Thank you for choosing a quality engineered STIHL product.

This machine has been built using modern production techniques and comprehensive quality assurance. Every effort has been made to ensure your satisfaction and troublefree use of the machine.

Please contact your dealer or our sales company if you have any queries concerning your machine.

Your

Hans Pepe Loud

Hans Peter Stihl

Guide to Using this Manual

Pictograms

All the pictograms attached to the machine are shown and explained in this manual.

Symbols in text



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



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

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.

Safety Precautions and Working Techniques



Special safety precautions must be taken when working with a cut-off machine, due to the very high rotational speed of the cutting wheel.

It is important that you carefully read the entire Instruction Manual before using the machine for the first time and keep it in a safe place for future reference. Non-observance of the following safety precautions may cause serious or even fatal injury.

Observe the national safety regulations issued, for example, by the employers' liability insurance association, social security institutions, occupational safety and health authorities or other organizations.

If you have never used a power tool before: have your STIHL dealer or other specialist show you how to operate the machine - or attend one of the special training courses.

Minors should never be allowed to use the machine - except for young trainees over the age of 16 when working under supervision.

Keep children, animals and bystanders well away from 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 third parties or their property.

The machine should only be provided or loaned to people familiar with this model and its operation. The instruction manual should always be handed over with the machine.

Use of machines that emit noise may be restricted in terms of time by national and/or on-site, local regulations.

The machine may only be operated by people who are fit, in good physical health and in good mental condition.

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

If you have a pacemaker: The ignition system of your machine produces an electromagnetic field of very low intensity. An effect on individual pacemaker types cannot be excluded entirely. STIHL recommends that you consult your doctor and the manufacturer of your pacemaker in order to avoid health hazards.

Anyone who has consumed alcohol, medicines affecting their ability to react or drugs must not operate a power tool.

Postpone the work if the weather is bad (snow, ice, wind) - higher risk of accidents!

The machine may only be used for cutting. It is not suitable for cutting wood or wooden objects.

Asbestos dust is extremely toxic - the machine must therefore **never be used** to cut asbestos!

Other uses are not permitted and may lead to accidents or damage to the machine.

Never modify the machine in any way, as this could be extremely dangerous. STIHL excludes all liability for personal injury and damage to property caused while using unauthorized attachments.

Only use cutting wheels and attachments which have been approved by STIHL for this machine or which are technically equivalent. Contact a dealer if in doubt. Only use high-quality cutting wheels and attachments. Otherwise there may be a risk of accidents or damage to the machine.

STIHL recommends the use of genuine STIHL cutting wheels and attachments. These have been optimized for the product and the user's requirements.

Do not use high-pressure cleaners to clean the machine. The hard water jet can damage parts of the machine.

Do not spray the machine with water.



Never use circular saw blades, carbide, rescue or wood cutting attachments or saws of any kind - these may cause fatal injuries! Instead of uniformly removing particles as when cutting with a cutting wheel, the teeth of a circular saw blade may snag in the material. This causes the machine to react in a highly aggressive manner with uncontrolled and extremely dangerous kickback.

Clothing and equipment

Wear proper protective clothing and equipment.



Clothing must be sturdy and snug-fitting, but allow complete freedom of movement. Wear snug fitting clothing with cutretardant pads – an overall, not a loose-fitting jacket.

When cutting steel, always wear clothing made of barely flammable material (e.g., leather or cotton with flame-retardant finish) – no manmade fibers – **risk of fire due to flying sparks!**

Ensure that there are no flammable deposits (chips, fuel, oil, etc.) on the clothing.

Do not wear clothing that could become trapped in moving parts of the machine – no scarves, no neckties, no jewelry. Long hair must be tied up and covered.



Wear safety boots with steel toe caps and non-slip soles.



Wear a **hard hat** wherever there is any risk of falling objects. Wear a face shield and always wear **safety glasses** – danger due to flying objects.

A face mask alone is not sufficient to protect the eyes.

Dust (e. g., crystalline material from the object being cut), fumes and smoke may be produced while cutting - **health** hazard!

Always wear a **dust mask** if dust is generated.

If fumes or smoke are anticipated (e. g., when cutting composite materials), wear **respiratory protection**.

Wear "personal" **hearing protection** – e. g., ear defenders.



Wear **heavy-duty**, **nonslip gloves** – preferably made of leather.

STIHL can supply a comprehensive range of protective clothing and equipment.

English

Transporting the machine

Always stop the engine.

Carry the machine only by the top handle – cutting wheel towards the rear – with the hot muffler facing away from the body.

Avoid touching hot parts of the machine, especially the surface of the muffler – **risk of burns!**

Never transport the machine with the cutting wheel fitted - **it may break!**

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

Refueling



Gasoline is an extremely flammable fuel – keep clear of naked flames and fire – do not spill any fuel – no smoking.

Switch off the engine before refueling.

Never refuel the machine while the engine is still hot – the fuel may spill over – **risk of fire!**

Open the fuel filler cap carefully so that any excess pressure is relieved gradually and fuel does not splash out.

The machine may only be refueled in a well ventilated place. Clean the machine immediately if fuel is spilled. Change your clothes immediately if they are contaminated with fuel. Dust may collect on the engine unit, particularly around the carburetor. If the dust is soaked with gasoline, it may catch fire. For this reason, ensure that the dust is always removed.



Check for fuel leakage while refueling and during operation. Never start the engine if fuel has been spilled or is leaking -Fatal burns may result!

Various cut-off machines may be equipped with various filler caps:

Bayonet filler cap



Never use a tool to open or close the bayonet filler cap. This could damage the cap and cause fuel to leak out.

Secure the bayonet filler cap tightly after refueling.

Threaded filler cap



Close the threaded filler cap as tightly as possible after refueling.

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

Cut-off machine, spindle bearing

A faultless spindle bearing ensures the radial and axial run-out of the diamond cutting wheel – have this checked by a dealer if necessary.

Cutting wheels

Selecting cutting wheels

Cutting wheels must be approved for freehand cutting. Do not use any other cutting wheels or attachments - **risk of accidents!**

Cutting wheels are suitable for varying materials: Observe the cutting wheel codes.

STIHL generally recommends wet cutting.



Observe the outer diameter of the cutting wheel.



The diameter of the spindle hole of the cutting wheel and the shaft of the cut-off machine must match.

Check spindle hole for damage. Do not use cutting wheels with a damaged spindle hole – **Risk of accident!**



The permissible speed of the cutting wheel must be equal to or greater than the maximum spindle speed of the cut-off machine! Refer to the chapter "Specifications".

Before fitting a used cutting wheel, check that it is not cracked, chipped, or uneven, and does not display any signs of core fatigue or overheating (discoloration); check also that there are no damaged or missing segments and that the spindle bore is not damaged.

Never use a chipped, cracked or warped cutting wheel.

Never straighten diamond cutting wheels.

Never use an cutting wheel that has been dropped – a damaged cutting wheel may break – **risk of accident!**

Observe the use-by date where resin cutting wheels are concerned.

Mounting cutting wheels

Check the cut-off machine spindle, do not use cut-off machines with damaged spindles – **risk of accident!**

Note the arrows indicating the direction of rotation on diamond cutting wheels.

Position front thrust washer – tighten tensioning nut – turn cutting wheel by hand, in the process making a visual inspection for radial and axial runout.

Storing cutting wheels

Store cutting wheels in a dry, frost-free place, on a flat surface, at constant temperatures – danger of breakage and shattering!

Always protect cutting wheels against sudden impact with the floor or objects.

Before starting

Check that the cut-off machine is in good condition - refer to the corresponding chapters in the Instruction Manual:

- The cutting wheel must be suitable for the material to be cut. It must be in good condition and fitted correctly (direction of rotation, securely seated).
- Check that the deflector is secure consult a STIHL servicing dealer if it is loose
- The throttle trigger and throttle trigger interlock must move easily – throttle trigger must return automatically to the idle position when released
- Slide control / master control / stop switch must move easily to STOP or 0
- Check that the spark plug boot is secure. A loose boot can lead to flying sparks which may ignite the escaping fuel/air mixture – risk of fire!
- Never attempt to modify the controls or safety devices
- Keep the handles dry and clean free from oil and dirt – for safe control of the cut-off machine

The machine should only be used if it is in good working order – **risk of** accident!

Starting the engine

Move at least 3 meters away from the place at which the machine was refueled and never start the machine in enclosed spaces.

The machine may only be used on level ground. Ensure a firm and secure footing and hold the machine firmly. The cutting wheel must not touch any objects or the ground and must not be in the cut.

The cutting wheel may begin to rotate as soon as the machine is started.

The machine is operated by only one person. There should not be any other person within the working area, not even when starting the machine.

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

The cutting wheel continues to run for some time after the throttle trigger has been released – **Risk of injury due to coasting effect!**

Holding and guiding the machine

The cut-off machine may only be used for freehand cutting or when mounted on a STIHL cut-off machine cart.

English

Hand-held cutting



Always hold the machine **firmly with both hands**: Right hand on the rear handle – even if you are left-handed. To ensure reliable control, wrap your thumbs tightly around the handlebar and handle.



When a cut-off machine with rotating cutting wheel is moved in the direction of the arrow, a force is produced which causes the machine to tip sideways.

The object that is to be cut must be positioned firmly; always guide the machine to the workpiece – never vice versa.

Cut-off machine cart

STIHL cut-off machines can be mounted on a STIHL cut-off machine cart.

Deflector



Set the deflector correctly for the cutting wheel: so that particles of material are guided away from the user and machine.

Note the direction in which the cut particles are ejected.

During work

In the event of impending danger or in an emergency, switch off the engine immediately by moving the slide control / master control / stop switch to **STOP** or **0**.

Check for correct idling, so that the cutting wheel is no longer driven when the throttle trigger is released and comes to a complete halt.

Check and/or correct the idle setting regularly. Have the machine repaired by a STIHL servicing dealer if the cutting wheel continues to turn nevertheless.

Ensure that the working area is clear – watch out for obstacles, holes and pits.

Beware of **slipping** on ice, water, snow or uneven ground!

Never work on a ladder or on any other unsteady support. Do not work above shoulder height and never operate the saw with one hand - **risk of accidents!**

Ensure you always have a firm and safe footing.

Do not work alone – keep within calling distance of others in case help is needed.

Never allow anyone in the working area and keep well away from other people to protect them from noise and flying objects.

More care and attention than usual are required when wearing ear protection, as sounds warning you of impending danger (shouts, beeps, etc.) cannot be heard properly.

If you get tired, take a break in good time.

Work calmly and methodically – only with good lighting and visibility. Take care not to endanger other people!



Your power tool produces toxic exhaust fumes as soon as the engine is running. These gases may be colorless and odorless and may contain unburnt hydrocarbons and benzene. Never run the engine indoors or in poorly ventilated areas, even if your model is equipped with a catalytic converter.

Ensure proper ventilation when working in trenches, hollows or other confined locations – **risk of serious or fatal injury from breathing toxic fumes!**. If you feel sick, if you have a headache, vision problems (e.g., your field of vision gets smaller), hearing problems, dizziness or inability to concentrate, stop work immediately. Such symptoms may be caused by an excessively high concentration of exhaust emissions – **risk of accident!**

No smoking when working with or near the machine - risk of fire!

If the machine 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 - refer also to the section "Before starting". Check the fuel system for leaks and make sure the safety devices are working properly. Never use the machine if it is not in good condition. Consult a STIHL servicing dealer if in doubt.

Do not work in the starting throttle position, as the engine speed cannot be controlled in this position.

Never touch a rotating cutting wheel with your hand or any other part of the body.

Examine the workplace. Avoid all danger due to damaged piping or electrical wiring.

The machine must not be used near inflammable substances or gases.

Never use the machine to cut inside pipes, metal troughs or other containers unless you are absolutely sure that they do not contain any volatile or inflammable substances.

Never leave the machine unattended with the engine running. Switch off the engine before leaving the machine (e. g., for a break). Before putting the cut-off machine down on the ground:

- Switch off engine
- Wait until the cutting wheel has come to a standstill



Inspect cutting wheel frequently – replace immediately if there is evidence of cracking, warping or other damage (e. g., overheating) – **risk of accident** due to breakage!

In the event of changes in cutting behavior (e. g., increased vibration, reduced cutting performance), stop work and eliminate the causes of the changes.

Reactive forces

The most frequently occurring reactive forces are kickback and pull-in.

Dangers of kickback

Kickback can result in fatal cuts.



Kickback occurs when the cut-off machine is suddenly thrown up and back in an uncontrolled arc towards the operator.

Kickback occurs if, for example, the cutting wheel

- becomes jammed above all in the upper quarter
- is severely braked through frictional contact with a solid object

Reduce the risk of kickback

- Work cautiously and methodically
- Hold the cut-off machine firmly with both hands and maintain a secure grip



 Do not use the upper quarter of the cutting wheel for cutting. The cutting wheel must be introduced into the cut with extreme care, without twisting and without pushing



- Always be aware that the object to be cut may move and other factors may cause the cut to close and jam the cutting wheel.
- The object to be cut must be secured and supported so that the cut remains open during and after cutting
- Work with water and wet cutting when using diamond cutting wheels
- Depending on version, composite resin cutting wheels are suitable for dry cutting or wet cutting only.
 Always use wet cutting with composite resin cutting wheels that are suitable only for wet cutting

Pulling away



The machine pulls forward, away from the user, when the cutting wheel touches the object to be cut from above.

Working with the cut-off machine



The cutting wheel must be guided straight in the cut, without wedging. Never exert lateral pressure on the cutting wheel.

Do not use the cutting wheel for lateral grinding or scrubbing.



Do not stand in line with the cutting wheel.

Do not lean too far forwards and never bend over the cutting wheel, especially when the deflector has been pulled back.

Don't cut above shoulder height.

The cut-off machine may only be used for cutting. It must not be used as a lever or shovel.

Do not press down on the cut-off machine.

Always decide the cutting direction before positioning the cutting wheel. After that, do not change the cutting direction. Avoid knocks and bumps with

the machine while in the cut – do not drop the machine into the cut – **danger** of breakage!

Diamond cutting wheels: If cutting performance begins to deteriorate, check the sharpness of the diamond cutting wheel, resharpen as needed. To do this, briefly cut through abrasive material, e. g., sandstone, aerated concrete or asphalt.

At the end of the cut, the cut-off machine is no longer supported by the cutting wheel in the cut. The machine's weight must be borne by the user, otherwise you **may lose control of the machine!**



When cutting steel: glowing metal particles **may cause fires!**

Keep water and sludge away from electric cables - risk of electric shocks!

To obtain a clean cut: the cutting wheel should be pulled into the workpiece if possible or moved back and forth in cutting direction. It must never be pushed.

Work with water and wet cutting when using diamond cutting wheels -e. g., use STIHL water attachment.

Depending on version, composite resin cutting wheels are suitable for dry cutting or wet cutting only.

Work with water and wet cutting when using composite resin cutting wheels that are suitable only for wet cutting – e. g., use STIHL water attachment.

Use dry cutting when using composite resin cutting wheels that are suitable only for dry cutting. If composite resin

cutting wheels of this type become wet, their cutting performance is reduced and they become dull. If composite resin cutting wheels of this type become wet while working (e. g., due to puddles or water in pipes), do not increase the cutting pressure, but continue working with the same pressure – **risk of breakage!** Wet composite resin cutting wheels must be used up immediately.

Cut-off machine cart

Clear a path for the cart. If the cart is pushed over objects, the cutting wheel may become wedged in the cut and **shatter**!

Vibrations

Prolonged use of the power tool may result in vibration-induced circulation problems in the hands ("white finger 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 sensation)
- Low outside temperatures
- Amount of gripping force (holding the power tool tightly restricts circulation)

Users who use the machine periodically or for long periods or users who repeatedly experience corresponding symptoms (e.g., tingling sensation in fingers), should undergo a medical examination.

Maintenance and repairs

The machine must be serviced regularly. Do not attempt any maintenance or repair work not described in the Instruction Manual. All other work should be carried out by a servicing dealer.

STIHL recommends that maintenance and repair work be carried out only by authorized STIHL dealers. STIHL dealers receive regular training and are supplied with technical information.

Use only high-quality replacement parts, in order to avoid the risk of accidents or damage to the machine. Contact a dealer if in doubt.

STIHL recommends the use of genuine STIHL spare parts. Such parts have been optimized for the machine and the user's requirements.

Before starting any maintenance or repair work and before cleaning the machine, always **stop the engine and disconnect the spark plug boot – risk of injury** if the engine starts up inadvertently! – Exception: adjustment of carburetor and idle speed.

To reduce the **risk of fire** due to ignition outside the cylinder, move the slide control / stop switch to **STOP** or **0** before turning the engine over on the starter with the spark plug boot removed or the spark plug unscrewed. Do not service or store the machine near a naked flame – **risk of fire** due to the fuel.

Check fuel cap regularly for tightness.

Use only spark plugs that are in perfect condition and have been approved by STIHL – see Specifications.

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

Check that the muffler is in perfect working condition.

Do not use the machine if the muffler is damaged or missing - **risk of fire! – Hearing damage!**

Never touch a hot muffler – risk of burns!

Check the rubber buffers underneath the machine - the housing must not rub against the ground - **risk of damage!**

The condition of the antivibration elements influences vibration behavior – inspect antivibration elements periodically.

Sample applications

Water must always be used for wet cutting when working with diamond cutting wheels



Extend service life and increase cutting speed

Always ensure a supply of water to the cutting wheel.

Bind dust

The cutting wheel must be supplied with at least 0.6 l/min of water.

Water attachment

- Water attachment on the machine for all types of water supplies
- Pressurized water tank 10 l for binding dust
- water tank usable on the cut-off machine cart for binding dust

Use composite resin cutting wheels with or without water – depending on version

Depending on version, composite resin cutting wheels are suitable for dry cutting or wet cutting only.

Composite resin cutting wheels suitable only for dry cutting

During dry cutting, wear a suitable dust mask.

If fumes or smoke are anticipated (e. g., when cutting composite materials), wear **respiratory protection**.

Composite resin cutting wheels suitable only for wet cutting



Use cutting wheel only with water.

To bind dust, the cutting wheel must be supplied with at least 1 liter of water per minute. To avoid a reduction in cutting performance, the cutting wheel must be supplied with not more than 4 liters of water per minute.

After using the cutting wheel, the wheel should be allowed to continue spinning at operating speed for

approx. 3 to 6 seconds without water in order to spin off the water remaining on it.

- Water attachment on the machine for all types of water supplies
- Pressurized water tank 10 l for binding dust
- water tank usable on the cut-off machine cart for binding dust

Observe with diamond and composite resin cutting wheels

Object to be cut

- Must be fully supported
- Must be secured so it cannot roll or slip off
- Must be prevented from vibrating

Severed parts

With openings, recesses, etc., the sequence of the cuts is important. Always make the last cut so that the cutting wheel does not become jammed and so that the operator is not endangered by the severed or separated part.

If necessary, leave small ridges that hold the part that is to be separated in position. Break these ridges later.

Before finally separating the part, determine:

- how heavy the part is
- how it can move after separation
- whether it is under tension

When breaking out the part, do not endanger assistants.

Cut in several passes



Mark cutting line (A)



 Work along the cutting line. When making corrections, do not tilt the cutting wheel, but always set the cutting wheel against the workpiece anew – the cutting depth for each operation should not exceed 5 to 6 cm. Cut thicker material in multiple operations



 sever large wall thicknesses with even back and forth movements

Cutting plates

 Secure the plate on a non-slip surface



 Grind a guide groove (A) along the line marked



- Make the cut (B) deeper with even back and forth motions
- Leave a "hinge" (C)
- First sever the plate at the cut ends so that no material breaks away
- Break plate



 Make curves in multiple operations

 make certain that the cutting wheel does not tilt

Cutting round and hollow bodies



- Secure pipes, round bodies, etc. against rolling away
- when determining the cutting line, avoid reinforcement, especially in the direction of the severing cut
- Grind a guide groove along the line marked
- Make cuts deeper with even back and forth motions – feed with full cutting depth along the guide groove – for small corrections of direction, do not tilt the cutting wheel, but always position it anew instead – if necessary, leave small ridges that hold the part that is to be separated in position. Break these ridges later

Shaping pipe





Manual cutting along this line requires particular caution and precision.



- Grind a guide groove along the marked cutting line – do this by starting at the apex and cut outward on both sides
- Cut into pipes, round bodies, etc. in the area at the ends of the cutting line, so that the material does not break away
- Make cuts deeper with even back and forth motions – start at the apex and cut outwards on both sides – feed with full cutting depth along the guide groove – for small corrections of direction, do not tilt the cutting wheel, but always position it anew instead – if necessary, leave small

ridges that hold the part that is to be separated in position. Break these ridges later

Cutting wheels

Cutting wheels are exposed to extremely high loads especially during freehand cutting.

The cutting wheels, which have been developed by STIHL in cooperation with renowned manufacturers of abrasive wheels, are of high quality and tailored precisely to the respective intended use as well as the engine performance of the cut-off machine.

They are of consistently outstanding quality.

Transport and storage

- Do not expose cutting wheels to direct sunshine or other thermal stresses during transport and storage
- Avoid jolting and impacts
- Stack cutting wheels flat on a level surface in the original packaging in a dry place where the temperature is as constant as possible
- Do not store cutting wheels in the vicinity of aggressive fluids
- Store cutting wheels in a frost-free place

Composite resin cutting wheels



The proper selection and use of composite resin cutting wheels ensures economical use and avoids accelerated wear. The code on the

- label
- of the packaging (table with recommendations for use) is an aid to selection

STIHL composite resin cutting wheels are suitable, depending on the version, for cutting the following materials:

- Asphalt
- Concrete
- Stone
- ductile cast iron pipes
- Steel

STIHL composite resin cutting wheels are not suitable for cutting railway tracks.

Diamond cutting wheels



The proper selection and use of diamond cutting wheels ensures economical use and avoids accelerated wear. The code on the

- label
- of the packaging (table with recommendations for use) is an aid to selection

STIHL diamond cutting wheels are suitable, depending on the version, for cutting the following materials:

- Asphalt
- Concrete
- Stone (hard stone)
- abrasive concrete
- Fresh concrete
- Clay brick
- Clay pipe

STIHL diamond cutting wheels are not suitable for cutting metal.

Product Codes



The product code is a combination of one to four letters and numbers:

 the letters denote the main field of application of the cutting wheel

Letter	Main field of application
Α	Asphalt
В	Concrete
BA	Concrete, asphalt
S	Stone (hard stone)
SB	Hard stone, concrete

 the numbers denote the performance class of the STIHL diamond cutting wheel

Axial and radial run-out

A faultless spindle bearing of the cut-off machine is necessary for a long service life and efficient functioning of the diamond cutting wheel.

Using the cutting wheel on a cut-off machine with a faulty spindle bearing can lead to deviations in radial and axial run-out.

English



An excessively high radial run-out deviation (**A**) overloads individual diamond segments, which overheat in the process. This can lead to stress cracks in the parent wheel or to annealing of individual segments.

Deviations in axial run-out (**B**) result in higher thermal loading and wider cuts.

Troubleshooting

Cutting wheel

Error	Cause	Remedy
ragged edges or cut surfaces, crooked cut	Deviation in radial or axial run-out	Contact a servicing dealer ¹⁾
heavy wear on the sides of the segments	Cutting wheel gyrates	use a new cutting wheel
ragged edges, crooked cut, no cutting performance, generation of sparks	Cutting wheel is dull; built-up edges with cut- ting wheels for stone	Sharpen cutting wheels for stone by briefly cutting through abrasive materials; replace cutting wheel for asphalt with a new one
poor cutting performance, high segment wear	Cutting wheel is turning in the wrong direction	Mount cutting wheel so that it turns in the right direction
Breakdowns or tears in the parent wheel and segment	Overloading	use a new cutting wheel
Undercut	Cutting in the wrong material	use new cutting wheel; observe separat- ing layers of various materials

1) STIHL recommends STIHL servicing dealers

Undercut



Do not cut into the base course (frequently chipped stones and gravel) when cutting roadway pavement – cutting in chipped stones and gravel is revealed by light-colored dust – excessive undercut may occur as a result – **Danger of shattering!**

Built-up edges, sharpen



Built-up edges take the form of a light gray deposit on the tops of the diamond segments. This deposit on the segments clogs the diamonds and blunts the segments.

Built-up edges can form:

- when cutting extremely hard materials, e. g., granite
- with incorrect handling, e. g., excessive feed effort
- if excessively large cross-sections are cut without pendulum cutting (movement back and forth in the cutting plane)

Built-up edges increase vibration, reduce cutting performance, and cause formation of sparks.

At the first signs of built-up edges, immediately "sharpen" the diamond cutting wheel – to do this, briefly cut through abrasive material such as sandstone, aerated concrete or asphalt.

Addition of water prevents the formation of built-up edges.



If work continues with dull segments, these may soften due to the high heat generated – the parent wheel is annealed and its strength is compromised – this can lead to stresses that are clearly recognizable by gyrations of the cutting wheel. Do not continue to use the cutting wheel – **Risk** of accident!

Assembling the bearing and guard

The "bearing with guard" is mounted on the inboard side of the cast arm by the manufacturer.

The "bearing with guard" can also be mounted on the outboard side depending on requirements.

Assembly on the inboard side is recommended for freehand cutting on account of the better balance; outboard mounting is recommended when the machine is mounted on a STIHL cut-off machine cart.

Outboard mounting

 Disassemble the cutting wheel (see "Fitting / replacing a cutting wheel")



- Move the guard to the position illustrated
- Pull out the plugs (arrows)
- Mount the adjusting lever (1) in position A
- Press the plugs into the free mounting holes



- Undo the nuts (2)
- Remove the banjo bolts (3)



• Turn the guard in the direction of the arrow until the adjusting lever points downwards



- To relax the poly V-belt, loosen the hexagon head screws (4)
- Turn the tensioning nut (5) counterclockwise with the combination wrench approx. 1/4 turn, as far as it will go = 0
- Remove the hexagon bolts



- Pull the V-belt guard (6) off to the front and remove the poly V-belt from the front pulley
- Remove the "bearing with guard" (7)



- Fit the "bearing with guard" (7) on the outboard side of the cast arm – at the same time, guide the poly Vbelt over the belt pulley
- Slide on the V-belt guard
- Line the threaded holes in the bearing up with the oblong holes in the cast arm and with the holes in the V-belt guard
- Screw in the hexagon bolts, but do not tighten them yet
- Refit the water attachment parts to the guard

Continue as described in the chapter "Tensioning the ribbed V-belt".

Tensioning the ribbed V-belt

This machine is equipped with an automatic spring-action V-belt tensioning device.



Prior to tensioning of the ribbed v-belt, the hexagon head screws (1) must be loosened and the arrow on the tensioning nut (2) must point to **0**.

 otherwise loosen the hexagon head screws (1) and the tensioning nut (2) with the combination wrench counterclockwise – approx. 1/4 turn, as far as possible = 0



 to tighten the ribbed v-belt, fit the combination wrench over the tensioning nut as illustrated



- Turn the tensioning nut clockwise approx. 1/8 turn the tensioning nut will be engaged by the spring
- Continue turning approx. 1/8 turn up to the stop

Do not turn the combination wrench further by force.

The ribbed V-belt is automatically tensioned by the force of the spring in this position.

- Remove the combination wrench from the tensioning nut
- Tighten hexagon head screws (1) on the V-belt guard

Retensioning the poly ribbed V-belt

The poly V-belt is retensioned without the aid of the tensioning nut.

 Unscrew the three hexagon bolts on the V-belt guard

The poly V-belt is automatically tensioned by the force of the spring.

• Retighten the hexagon bolts.

Fitting / replacing an abrasive wheel

The engine must be switched off for fitting or replacement – set Master Control lever to STOP or 0.

Blocking the shaft



- Slide the locking pin (1) through the bore in the V-belt guard
- Turn the shaft with the combination wrench until the locking pin (1) engages in a bore behind the guard

Removing a cutting wheel



- Use the combination wrench to loosen and remove the hexagon head screw (2)
- Remove the front thrust washer (3) from the shaft together with the cutting wheel



Fitting a cutting wheel

• Fit the new cutting wheel (4)

Note the arrows indicating the direction of rotation on diamond cutting wheels.

- Fit the front thrust washer (3). The catches of the front thrust washer (3) must engage in the shaft grooves.
- Screw in the hexagon bolt and tighten it with the combination wrench - if using a torque wrench, refer to the "Specifications" for the tightening torque
- Draw the locking pin out of the V-belt guard



Fuel

Your engine requires a mixture of gasoline and engine oil.

For health reasons, avoid direct skin contact with gasoline and avoid inhaling gasoline vapor.

STIHL MotoMix

STIHL recommends the use of STIHL MotoMix. This ready-to-use fuel mix contains no benzol or lead, has a high octane rating and ensures that you always use the right mix ratio.

STIHL MotoMix is specially formulated for use in STIHL engines and guarantees a long engine life.

MotoMix is not available in all markets.

Mixing Fuel



Unsuitable fuels or lubricants or mix ratios other than those specified may result in serious damage to the engine. Poor quality gasoline or engine oil may damage the engine, sealing rings, hoses and the fuel tank.

Gasoline

Use only high-quality brand-name gasoline with a minimum octane rating of 90 - leaded or unleaded.

If your machine is equipped with a catalytic converter, you must use unleaded gasoline.



A few tankfuls of leaded gasoline will greatly reduce the efficiency of the catalytic converter.

Engine Oil

Use only quality two-stroke engine oil. We recommend STIHL two-stroke engine oil since it is specially formulated for use in STIHL engines and guarantees a long engine life.

If STIHL two-stroke engine oil is not available, use only quality two-stroke oil designed for use in air-cooled engines. Do not use oils designed for watercooled engines or engines with a separate lubricating system (e.g. conventional four-stroke engines).

Use only STIHL 50:1 two-stroke engine oil for the fuel mix in models with a catalytic converter.

Mix Ratio

STIHL 50:1 two-stroke engine oil: 50 parts gasoline to 1 part oil

Examples

Gasoline	STIHL e	ngine oil 50:1
Liters	Liters (r	nl)
1	0,02 (2	20)
5	0,10 (1	100)
10	0,20 (2	200)
15	0,30 (3	300)
20	0,40 (4	100)
25	0,50 (5	500)

Other brand-name two-stroke engine oils: 25 parts gasoline to 1 part oil

Use a canister approved for storing fuel. Pour oil into canister first, then add gasoline and mix thoroughly.

Storing Fuel

Store fuel only in approved safety-type fuel canisters in a dry, cool and safe location protected from light and the sun.

Fuel mix ages – only mix sufficient fuel for a few weeks work. Do not store fuel mix for longer than 3 months. Exposure to light, the sun, low or high temperatures can guickly make the fuel mix unusable.

Thoroughly shake the mixture in the • canister before fueling your machine.

Pressure may build up in the canister - open it carefully.

Clean the fuel tank and canister from time to time.

Dispose of remaining fuel and cleaning fluid properly in accordance with local regulations and environmental requirements.

Fueling



Preparing the machine

- Before fueling, clean the filler cap and the area around it so that dirt cannot fall into the tank.
- Always position the machine so that the filler cap is facing upwards.



Never use a tool to open the bayonet filler cap. This could damage the cap and cause fuel to leak out.

Opening the filler cap



Press the filler cap down as far as possible by hand, then turn it counterclockwise (approx. 1/8 turn) and remove

Refueling

Take care not to spill fuel while fueling and do not overfill the tank. STIHL recommends use of the STIHL filling system for fuel (special accessory).

Closing the filler cap



- Fit the cap and turn it until it engages in the bayonet catch
- Press the cap down as far as possible with your hand and turn it clockwise (approx. 1/8 of a turn) until it engages properly

Change the fuel pick-up body every year



- Drain the fuel tank
- Pull the fuel pick-up body out of the tank with a hook and disconnect it from the hose
- Connect a new fuel pick-up body to the hose
- Return the fuel pick-up body to the tank

Starting / Stopping the Engine



- Note the safety instructions. Refer to the chapter headed "Safety precautions and working techniques".
- Press throttle trigger interlock (1) and throttle trigger (2) simultaneously
- Hold both triggers down
- Move the Master Control lever (3) to START and hold it in position too
- Release the throttle trigger,Master Control lever and throttle trigger interlock in succession = starting throttle position

English



- Set the choke (4) according to the engine temperature
- If engine is cold
- ➡ if the engine is warm (even if the engine is already running but is still cold or if the warm engine was shut off for less than 5 min)
- ➤ if the engine is hot (if the hot engine was switched off for longer than 5 min)



- Press the button (5) of the decompression valve before each starting procedure
- Press the bulb (6) of the fuel pump 7-10 times – even when the bulb is still filled with fuel

Starting



- Place the cut-off machine carefully on the ground, ensuring that the cutting wheel cannot touch the ground or any objects. There must not be anyone within the swivel range of the cut-off machine
- Make sure you have a firm footing
- Press the cut-off machine firmly against the ground, holding the handle with your left hand, thumb wrapped round the handle
- Place your right foot through the rear handle
- Pull the starter grip slowly with your right hand until you feel it engage – then give it a brisk strong pull – do not pull out the starter rope all the way
- Do not let the starter grip snap back – it may break! Guide it back into the housing in the opposite direction so that it can rewind properly.

When the engine has turned over for the first time



Set choke lever (4) to <u>►</u> – press the button of the decompression valve again before each starting attempt and continue cranking

Once the engine is running

- Squeeze throttle trigger fully and let engine run at full throttle for approx. 30 s
- When it has warmed up, set the choke lever to Ξ



• The Master Control lever (3) moves to the normal position**I** when the throttle trigger is squeezed

If the carburetor has been set correctly, the cutting wheel should not rotate when the engine is idling. The cut-off machine is now ready for use.

Switch off engine

- Set the choke lever in accordance with the engine temperature
- Restart the engine

Air Filter System

Basic information

The average filter life is more than 1 year. Do not dismantle the filter cover or fit a new air filter unless there is a noticeable loss of engine power.

In the long-life air filter system with the cyclone pre-separation system, dirty air is drawn in and deliberately rotated. The larger and heavier particles carried in the air are thus expelled and extracted. Only pre-cleaned air enters the air filter system and the result is extremely long filter life.

Replacing the air filter

Only if there is a noticeable loss of engine power



- Remove the locking screw (1) on the filter cover
- Remove the filter cover (2)
- Remove all coarse dirt from the area around the filter and the inside of the filter cover



• Slide Master Control lever (3) to **STOP** or **0**

Additional hints on starting

If the engine does not start

The choke lever was not returned to $\overline{\mathbf{x}}$ in time after the engine turned over for the first time.

- Move Master Control lever to START = starting throttle position
- Set the choke lever to = warm start, even if the engine is cold
- Pull the starter rope through 10-20 times to ventilate the combustion chamber
- Restart the engine

If the tank has been drained completely

- Refueling
- Press the fuel pump bulb 7-10 times
 even if it is full of fuel

English

- Remove screws (3)
- Remove filter housing (4)



- Pull main filter (5) out of the filter housing
- Set choke lever to $\overline{\mathbf{1}}$
- Remove the auxiliary filter (6) from filter base – ensuring that dirt does not enter the intake area
- Clean the filter area
- Remount main filter and new auxiliary filter with the remaining filter components
- Refit filter cover
- Tighten down the locking screw

Only high-quality air filters should be used, to protect the engine against ingress of abrasive dust.

STIHL recommends the use of genuine STIHL air filters. The high quality of these parts will ensure troublefree operation, a long service life for the engine and extremely long filter life.

Adjusting the Carburetor

Basic information

The ignition system of this cut-off machine is equipped with an electronic maximum speed limiter. The maximum speed cannot be increased beyond a specified limit.

The carburetor comes from the factory with a standard setting.

The carburetor has been adjusted for optimum performance and fuel efficiency in all operating states.

The high speed adjusting screw on this carburetor can only be set within narrow limits.

Standard setting



- Switch off engine
- Only replace the air filter if the engine is noticeably down on power
- Check the spark arresting screen in the muffler (present only in some countries) – clean or replace it if necessary

- Turn the high speed screw (H) counterclockwise as far as possible – max. 3/4 turn
- Carefully turn the low speed adjusting screw (L) clockwise as far as possible, then open it 1 turn

Setting the idle speed



Engine stops when idling

- Make standard setting
- Turn the idle speed adjusting screw (LA) clockwise until the abbrasive wheel begins to run – then turn it back 1 turn

Abrasive wheel runs when idling

- Make standard setting
- Turn the idle speed screw (LA) counterclockwise until the abrasive wheel stops running – then turn another full turn in the same direction

Erratic idling behavior, poor acceleration

Idle speed setting is too lean (e. g., at low ambient temperature).

- Make standard setting .
- Turn the low speed adjusting • screw (L) approx. 1/4 turn counterclockwise until the engine runs and accelerates smoothly

Idle speed cannot be increased sufficiently via the idle speed adjusting screw (LA), engine stops when changing from part-load to idle speed

- Make standard setting
- Turn the low speed screw (L) approx. 1/4 turn clockwise

Whenever the low speed screw (L) has been adjusted, at least one adjustment must also be made on the idle speed adjusting screw (LA).

Adjustment for use in mountain country or at sea level

A marginal adjustment of the setting of the high speed adjusting screw (H) may be necessary if the engine does not run satisfactorily in mountain country or at sea level.

- Check the standard setting
- Let the engine warm up
- Set idle speed correctly. •

In the mountains

Turn the high speed screw (H) clockwise (leaner) - max. up to the stop

At sea level

Turn the high speed adjusting screw (H) counterclockwise (richer) - max. up to the stop



If you make the setting too lean it will increase the risk of engine damage through lack of lubrication and overheating!

Spark Arresting Screen in Muffler

In some countries, the mufflers are fitted with a spark arresting screen.

If engine performance deteriorates, check the spark arresting screen in the muffler

Wait until engine has cooled completely before performing the following operations.

Versions

There are two different spark arresting screen versions in the muffler.

- Spark arresting screen fastened with clip
- Spark arresting screen fastened _ with screw

Spark arresting screen fastened with clip



- Use a suitable tool to squeeze ends • of clip (1) together and then lift the clip away
- Remove the spark arresting screen (2) from the muffler
- Clean the soiled spark arresting screen

English

- If the screen is damaged or heavily carbonized, fit a new one
- Refit the spark arresting screen in reverse order of steps

Spark arresting screen fastened with screw



- Remove screw (1)
- Pull out spark arresting screen (2) with a suitable tool
- Clean the soiled spark arresting screen
- If the screen is damaged or heavily carbonized, fit a new one
- Refit the spark arresting screen in reverse order of steps

Checking the Spark Plug

If the engine is down on power, difficult to start or runs poorly at idle speed, first check the spark plug.

- Removing 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.
- 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".

To reduce the risk of arcing and fire

If the spark plug comes with a detachable adapter nut:



• Screw the adapter nut (1) onto the thread and tighten it down firmly.

On all spark plugs



• Always press the boot (2) firmly on to the spark plug (3).

Replacing the Starter Rope and Rewind Spring

Replacing the starter rope



- Remove the hose (1) from the guide of the starter cover
- Remove screws (2)
- Remove the starter cover (3) from the engine



- Remove the spring clip (4)
- Remove the rope rotor with washer (5) and pawls (6)



- Lever the rope out of the starter handle with a screwdriver
- Remove the remainder of the rope from the rotor and starter handle
- Thread a new ElastoStart starter rope from top to bottom through the starter handle and rope guide bush (7)
- Thread the rope through the rotor and secure it in the rotor with a simple overhand knot

English



- Slip the rope rotor onto the starter post – turn it back and forth a little until the anchor loop of the rewind spring engages
- Fit the pawls (6) in the rope rotor
- Place the washer (5) on the starter post
- Press the spring clip (4) on to the starter post and over the pegs of the pawl with a screwdriver or suitable pliers – the spring clip must point in the counterclockwise direction – as in the picture

Tensioning the rewind spring



- Make a loop in the unwound starter rope and use it to turn the rope rotor six full revolutions in the direction of the arrow
- Hold the rope rotor tight pull out the twisted rope and untangle it

- Release the rope rotor
- Slowly let go of the rope so that it winds on to the rotor. The starter grip must be drawn firmly into the rope guide bush. If it tips sideways: increase the spring tension by another turn
- It must be possible to turn the rope rotor on another half-turn when the rope has been drawn out completely. If not, the spring has been tensioned too tightly and may break! Remove one turn of the rope from the rotor
- Refit the starter cover
- Press the remaining rope into the starter handle

Replacing a broken rewind spring

- Remove the rope rotor as described for "Replacing the starter rope"
 - The broken pieces of spring may still be under tension and can spring apart unexpectedly on removal from the housing – **risk of injury!** Wear a face shield and protective gloves.



- Remove screws (7)
- Remove the spring housing and spring parts
- Fit a new spring housing with the bottom upwards
- Screw in screws (7)
- Refit the rope rotor
- Tension the rewind spring
- Refit the starter cover and screw it into place
- Place hose in the guide of the starter cover
- If the spring has popped out of the spring housing: Refit it, working from the outside inwards

Replacing the V-belt



- The arrow on the tensioning nut (1) must point to 0 to this end, turn the tensioning nut (1) with the combination wrench counterclockwise approx. 1/4 turn, as far as possible = 0
- Remove screw (2)
- Pull the V-belt guard (3) off to the front and remove the poly V-belt from the front pulley.
- Remove the "bearing and guard".
- Remove the hose (4) from the guide of the starter cover (5)
- Remove the screws (6) from the starter cover
- Remove the starter cover
- Remove the defective poly V-belt from the cast arm



- Carefully fit a new poly V-belt (7) in the cast arm and insert it in the front poly V-belt pulley (8) on the shortblock
- Fit the starter cover
- Hold the bearing with guard against the cast arm
- Fit the poly V-belt in the front poly Vbelt pulley (9)
- Slide on the V-belt guard
- Line the threaded holes in the bearing up with the oblong holes in the cast arm and with the holes in the V-belt guard.
- Screw in the hexagon bolts, but do not tighten them yet
- Place hose in the guide of the starter cover

Continue as described in the chapter "Tensioning the V-belt".

Cut-off machine cart



The cut-off machine can be mounted on the STIHL cut-off machine cart FW 20 (special accessory) in a few easy steps.

The cut-off machine cart makes it easier to

- repair damaged roadways
- apply roadway markings
- cut expansion joints

Storing the Machine

If the machine is to remain out of use for approx. 3 months or more

- Drain and clean the fuel tank in a well ventilated place
- Dispose of fuel in accordance with the regulations and having regard for the environment
- Run the engine until the carburetor is dry, this helps to prevent the carburetor diaphragms sticking together
- Remove the abrasive wheel
- Thoroughly clean the machine, especially the cylinder fins
- Store machine in a safe and dry place. Protect against unauthorized use (e. g., by children)

The following maintenance intervals apply in normal operating conditions. The specified intervals must be shortened accordingly when working for longer than normal or under difficult cutting conditions (extensive dust, etc.).		before starting work	at the end of work and/or daily	Whenever tank is refilled	Weekly	Monthly	Yearly	If faulty	If damaged	As required
Complete machine	Visual inspection (condition, leaks)	X		x						
	Clean		Х							
Operating elements	Check operation	Х		x						
Fuel nick-up body in fuel tank	test, check							х		
	Replace						Х		Х	Х
Fuel tank	Clean					х				
Poly V-belt	Clean / retension					х				Х
	Replace								Х	Х
Air filter (all filter components)	Replace	Only if there is a noticeable loss of engine power								
Cooling air intake slits	Clean		х							
Cylinder fins	Have them cleaned by a specialist dealer ¹⁾						x			
Spork orrecting coroon ²) in mufflor	test, check		Х							
Spark aresung screen / in munici	Clean or replace									Х
	test, check	х						х		
Water attachment	Have them maintained by a specialist dealer ¹⁾								х	
Carburetor	Check idle adjustment – abrasive wheel must not rotate	х		x						
	Readjust idle speed									Х
Spork plug	Adjust electrode gap							Х		
Spark plug	Replace after 100 hours' operation									
All accessible screws, nuts and bolts (not adjusting screws)	Retighten		x							x

The following maintenance intervals apply specified intervals must be shortened acc normal or under difficult cutting conditions	y in normal operating conditions. The ordingly when working for longer than s (extensive dust, etc.).	before starting work	at the end of work and/or daily	Whenever tank is refilled	Weekly	Monthly	Үеагіу	If faulty	If damaged	As required
	test, check	х						х		Х
Antivibration elements	Have them replaced by a specialist dealer ¹⁾								x	
Abrasive wheel	test, check	х		х						
	Replace								Х	Х
Supports / bars / rubber buffers (under-	test, check		Х							
neath the machine)	Replace								х	Х
Safety information sticker	Replace								Х	

¹⁾ STIHL recommends STIHL servicing dealers

²⁾ present only in some countries

Main Parts



- 1 Screw plug
- 2 Filter cover
- 3 Fuel pump
- 4 Starter grip
- 5 Carburetor adjusting screws
- 6 Filler cap
- 7 Water attachment
- 8 Tensioning nut
- 9 Deflector
- 10 Adjusting lever
- 11 Cutting wheel
- 12 Front thrust washer
- 13 Muffler
- **14** Spark arresting screen (present only in some countries)
- 15 Handlebar
- 16 Decompression valve
- **17** Cap for spark plug boot
- 18 Choke lever
- 19 Master Control lever
- 20 Throttle trigger
- 21 Throttle trigger interlock
- 22 Rear handle
- # Serial number

Specifications

Engine

STIHL single cylinder two-stroke engine

98.5 cm ³
56 mm
40 mm
5.0 kW (6.8 HP) at 9300 rpm
2200 rpm
4290 rpm

Ignition system

Electronic magneto ignition

Spark plug	Bosch WSR 6 F,
(suppressed):	NGK BPMR 7 A
Electrode gap:	0.5 mm

Fuel system

All position diaphragm carbuintegral fuel pump	uretor with
Fuel tank capacity:	1.2
Air filter	

Main filter (paper filter) and flocked wire mesh auxiliary filter

Weight

Empty weight without cutting wheel, with water attachment, without fuel 13.4 kg

Cutting wheels

The quoted maximum permissible operating speed of the cutting wheel must be greater than or equal to the maximum spindle speed of the cut-off machine used.

Hole diameter/spindle	
diameter:	20 mm
Tightening torque:	30 Nm

Composite resin cutting wheels

Outside diameter:	400 mm
Minimum outside diameter of	
front thrust washer:	140 mm
Max. depth of cut:	130 mm

Diamond cutting wheels

Outside diameter:	400 mm
Minimum outside diameter of	
front thrust washer:	103 mm
Max. depth of cut:	145 mm

The STIHL diamond cutting wheel with an outside diameter of 416 mm is also approved. When this diamond cutting wheel is used, the max. depth of cut increases to 150 mm.

Special Accessories

- Set of tools
- STIHL cut-off machine cart FW 20
- Attachment kit for cut-off machine FW 20
- Water tank mounting kit
- Pressurized water tank mounting kit
- Cutting direction indicator
- Set of wheels

Ask your STIHL dealer for current information on this and other special accessories.

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 highquality 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 **S**₀ (the symbol may appear alone on small parts).



Quality Certification

All STIHL products comply with the highest quality standards.

An independent organization has certified that all products manufactured by STIHL meet the strict requirements of the ISO 9001 standard for quality management systems in terms of product development, materials purchasing, production, assembly, documentation and customer service. English



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