

STIHL HT 131

Instruction Manual



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Dear Customer,

Thank you for choosing a quality engineered STIHL product.

It has been built using modern production techniques and comprehensive quality assurance. Every effort has been made to ensure your satisfaction and trouble-free use of the product.

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

Your



Dr. Nikolas Stihl

STIHL

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Guide to Using this Manual

Pictograms

The meanings of the pictograms attached to the machine are explained in this manual.

Depending on the model concerned, the following pictograms may be attached to your machine.



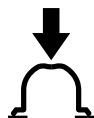
Fuel tank; fuel mixture of gasoline and engine oil



Chain oil tank; chain oil



Direction of chain rotation



Operate manual fuel pump



Manual fuel pump

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.

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 observed when working with the pole pruner because it operates at a very high chain speed, has very sharp cutters and a long reach.



It is important you read and understand the User Manual before commissioning and keep it in a safe place for future reference. Non-compliance with the User Manual may cause serious or even fatal injury.

Observe all applicable local safety regulations, e.g. by trade organizations, social insurance institutions, labor safety authorities etc.

If you have never used a power tool before: Have your dealer or other experienced user show you how to operate your machine – or attend a special course to learn how to operate it.

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 bystanders must remain at a distance.

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.

Do not lend or rent 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 good mental condition.

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 reduce any health risk.

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

Use your pole pruner for limbing only (removing or pruning branches). Saw wood and wooden objects only.

The machine must not be used for any other purposes – **risk of accidents!**

Only use guide bars, saw chains, chain sprockets and accessories that are explicitly approved for this power tool model by STIHL or are technically identical. If you have any questions in this respect, consult your dealer. Use

only high quality parts and accessories. in order to avoid the risk of accidents and damage to the machine.

STIHL recommends the use of STIHL original tools, guide bars, saw chains, chain sprockets 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.

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



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

WARNING



To reduce the risk of eye injuries, wear close-fitting safety glasses in accordance with European Standard EN 166. Make sure the safety glasses are a snug fit.

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

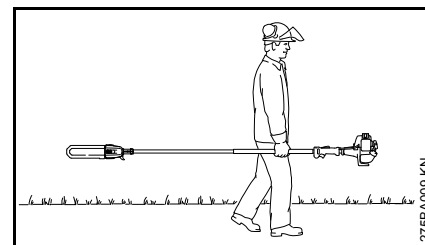
Wear a safety hard hat where there is a danger of head injuries from falling objects.



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

STIHL can supply a comprehensive range of personal protective equipment.

Transporting the machine



Always stop the engine.

Always fit the chain scabbard – even when you carry the power tool for short distances.

Ensure that the power tool is always well balanced and hold it by the shaft for carrying. Do not touch hot parts of the machine, especially the surface of the muffler – **Risk of burns!**

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

Refueling



Gasoline is highly flammable – keep away from fire or flame – do not spill any fuel – no smoking.

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 avoid fuel spillage.

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.






After fueling, tighten down the screw-type fuel cap as securely as possible.

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!**

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
- Correctly mounted guide bar
- Correctly tensioned saw chain
- The stop switch must be easy to push
- Check the choke lever, throttle trigger and throttle trigger lockout for smooth action - throttle trigger must return automatically to idle position. The choke lever must spring back from the  and  positions to the run position  when the throttle trigger lockout and throttle trigger are squeezed
- Check that the spark plug boot is secure – a loose boot may cause sparking that could ignite combustible fumes **and cause a fire!**
- 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
- Adjust the harness to suit your height and reach. Observe the chapter "Fitting the Harness"

To reduce the risk of personal injury, do not operate your power tool if it is damaged or not properly assembled!

If you use a harness: Practice setting down the machine quickly by removing the harness or by unhooking the machine as you would in an emergency. To avoid damage, do not throw the machine to the ground when practicing.

Starting the engine

Start the engine at least 3 meters from the fueling spot, outdoors only.

Place the power tool on level ground in an open area. Make sure you have good balance and secure footing. Hold the power tool securely. The chain must be clear of the ground and all other obstructions because it 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 within a radius of 15 m of your own position – even when starting the power tool – **Risk of injury!**

Start the engine as described in the user manual.

The saw chain continues running for a short period when you release the throttle trigger – **flywheel effect!**

Check engine idling speed: The saw chain must not move when the engine is idling – with the throttle trigger released.

Keep easily flammable materials (e.g. wood chips, bark, dry grass, fuel) away from the hot exhaust gas flow and the hot muffler surface – **Risk of fire!**

Holding and guiding the machine



Always hold the power tool **firmly with both hands** – right hand on the control handle, left hand on the drive tube – even if you are left-handed. Wrap your thumbs firmly around the control handle and shaft.

Machines with telescopic shaft: Extend the telescopic shaft only as far as the working height.

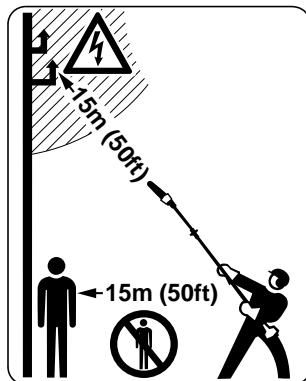
While working

Make sure you always have good balance and secure footing.

In the event of impending danger or in an emergency, switch off the engine immediately by pressing the stop switch.



This power tool is not insulated. Keep at least 15 m away from electric power lines – **Danger of fatal electric shock!**



Do not allow other persons within a radius of 15 m of your own position due to falling branches and ejected wood particles – **Risk of injury!**

This distance must also be maintained in relation to objects (vehicles, window panes) – **risk of property damage!**

Keep the bar nose at least 15 m away from electric power lines. Electric current may also arc over from high-voltage cables at greater distance. Have the power switched off before starting work in the immediate vicinity of power lines.

Switch off the engine before changing the saw chain – **Risk of injury!**

Ensure that the engine idling speed is correct. The saw chain must not move when the throttle trigger has been released.

If the saw chain continues moving, have the machine repaired by your specialist dealer. Check and correct the idle speed setting at regular intervals.

Never leave a running machine unattended.

Take special care in slippery, wet conditions, in snow and on slopes, uneven ground, etc. – **Risk of slipping!**

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

When working at heights:

- Always use a lift bucket
- Never use the machine while standing on a ladder or in a tree
- Never work on an insecure support
- Never use the machine with just one hand

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

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 is running, the power machine 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 so that it produces a minimum of noise and emissions – do not run the engine unnecessarily, accelerate the engine only when working.

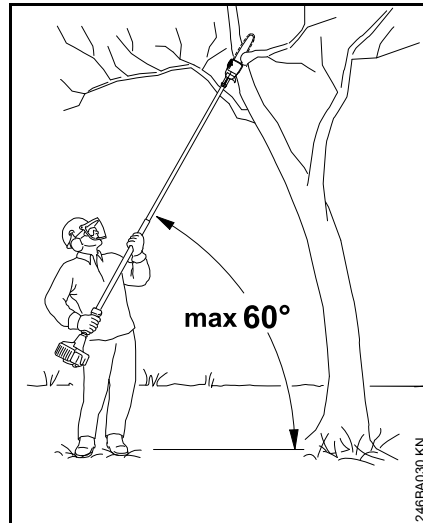
To reduce the risk of fire, **do not smoke** while operating or standing near your power tool. Combustible fuel vapor may escape from the fuel system.

Dust (e.g. sawdust), fumes and smoke, generated while using the machine, may be hazardous to health. Wear a dust mask in case of dust formation.

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 dealer.

If you use a harness, ensure that the exhaust gas flow is diverted away from your body – **Risk of fire!**

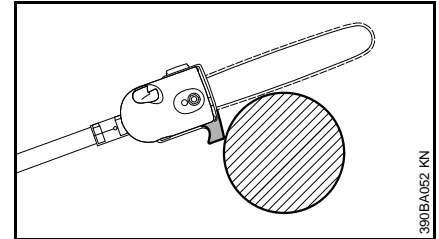
Limbing



Hold the power tool at an angle. Do not stand directly underneath the limb being cut. Do not exceed an angle of 60° from the horizontal. Watch for falling wood.

Keep the work area clear – remove interfering limbs and brush.

Before sawing branches, establish an escape route and remove all obstacles.



When performing the separating cut, position the bar against the branch near the hook. This will prevent the power tool from making jolting movements when you start the separating cut.

Start the cut with the saw chain at full throttle.

Always cut with a correctly sharpened, properly tensioned saw chain – the depth gauge setting must not be too large.

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

Perform cross-cut from the top downward to avoid the chain pinching in the cut.

If branches are thick or heavy, make a relief cut – see "Using the Pole Pruner".

Exercise extreme caution when sawing branches under tension – **Risk of injury!** Always make a relieving cut on the compression side first and then perform the bucking cut at the tension side.

Be careful when cutting splintered wood – **Risk of injury from ejected pieces of wood!**

If working on a slope, always stand uphill or to the side of the branch which is to be sawn. Watch out for rolling branches.

Note when reaching the end of a cut that the power tool is no longer supported by the guide bar in the cut. The user must bear the weight of the machine – **risk of loss of control!**

Always pull the power tool out of the cut with the saw chain running.

Use the power tool for limbing and pruning only, not for felling – **Risk of accidents!**

Keep the saw chain away from any foreign objects: Stones, nails, etc. may be ejected and damage the saw chain.

If a rotating saw chain hits a stone or another hard object, sparks may be generated which may ignite easily flammable materials under certain conditions. Also dried-out plants and brushwood are combustible, above all in hot and dry weather. If there is a risk of fire, do not use your pole pruner near easily flammable materials, dry plants or scrub. It is mandatory that you ask the responsible forestry office about the current fire hazard.

Before you leave the machine: Shut the engine off.

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.

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 machine. If you have any questions in this respect, consult a servicing dealer.

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

To reduce the risk of injury from unintentional engine startup, **always shut off the engine and disconnect the spark plug boot** before performing any repairs, maintenance or cleaning work. – 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, do not operate your machine if the muffler is damaged or missing – **there is also a risk of hearing damage**.

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

Shut off the engine

- before checking chain tension.
- before retensioning the chain.
- before replacing the chain.
- before rectifying problems.

Observe sharpening instructions – keep the chain and guide bar in good condition at all times for safe and correct handling of the machine. The chain must be properly sharpened, tensioned and well lubricated.

Always change the chain, guide bar and sprocket in good time.

Store fuel and chain lubricant in properly labeled, safety-type canisters only. When handling gasoline, avoid direct contact with the skin and avoid inhaling fuel vapor – **health risk**.

Using the Unit

Preparation

- Wear suitable protective clothing, observe safety precautions
- If your machine has a telescoping shaft, adjust it to the required length.
- Starting the engine
- Fitting the harness

Cutting sequence

To allow branches to free fall, always cut the lower branches first. Prune heavy branches (large diameter) in several controllable pieces.

WARNING

Never stand directly underneath the branch you are cutting – be wary of falling branches. – Note that a branch may spring back at you after it hits the ground – risk of injury.

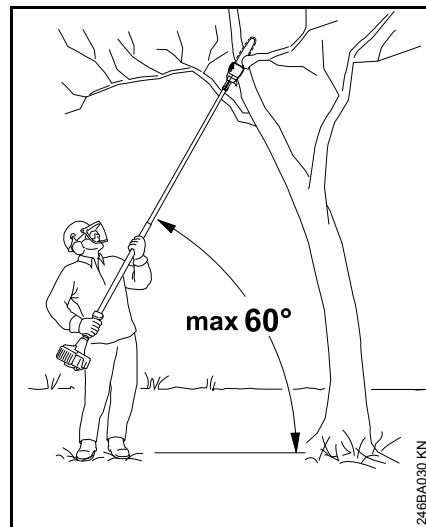
Disposal

Do not throw cuttings into the garbage can – they can be composted.

Working techniques

Hold the control handle with your right hand, and the shaft with your left hand. Your left arm should be extended to the most comfortable position.

Always hold the shaft with your left hand in the area of the handle hose.

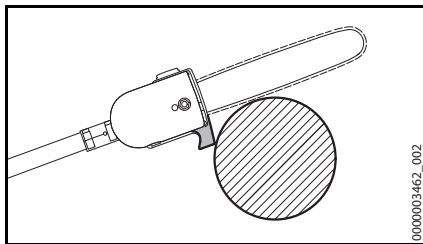


The shaft should always be held at an angle of 60° or less.

The least tiring working position is a tool angle of 60°.

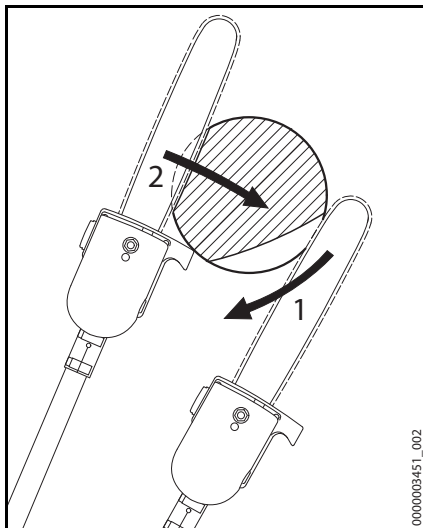
Any lesser angle may be used to suit the situation.

Cross-cut



To avoid pinching the bar in the cut, position the cutting attachment with the hook against the branch and then perform the cross-cut from the top downwards.

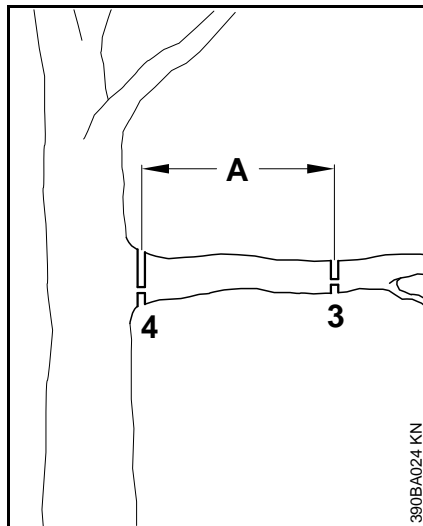
Relieving cut



To avoid tearing the bark on thick branches, always start by performing a

- relieving cut (1) on the underside of the branch. To do this, position the cutting attachment and guide it down to the bar nose in an arc.
- Perform the cross cut (2) – position the slide with the housing against the branch

Flush-cutting thick branches



If the branch diameter is more than 10 cm (4 in), first

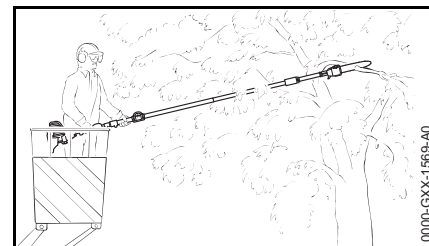
- perform the undercut (3) and then cross-cut at a distance of about 20 cm/8 in (A) from the final cut. Then carry out the flush-cut (4), starting with a relieving cut and finishing with a cross-cut

Cutting above obstacles



The machine's long reach makes it possible to prune branches that are overhanging obstacles, such as rivers or lakes. The tool angle in this case depends on the position of the branch.

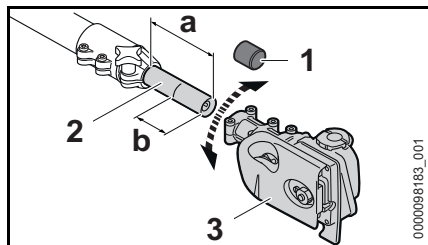
Cutting from a lift bucket



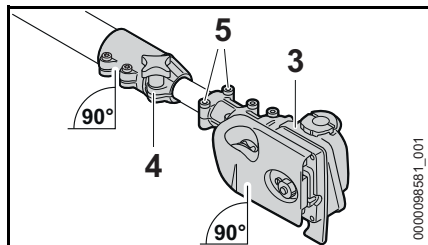
The machine's long reach enables cutting to be performed next to the trunk without the risk of the lift bucket damaging other branches. The tool angle in this case depends on the position of the branch.

Assembling the Unit

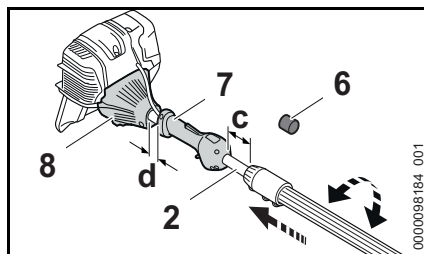
Assembling the Pole Pruner



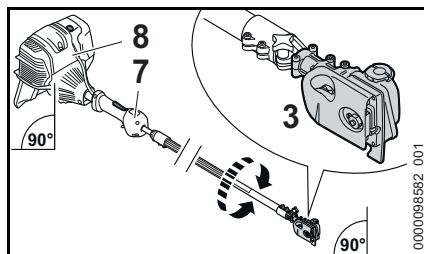
- Remove the protective cap (1)
- Adjust the telescopic shaft to $a = 10$ cm
- Mark $b = 5$ cm on the shaft (2)
- Push the transmission (3) onto shaft (2) up to mark b and turn it.



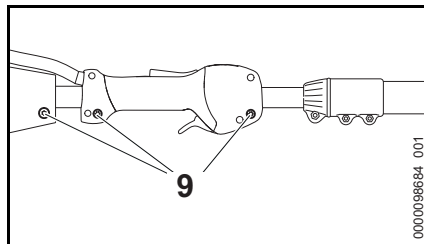
- Align the collet (4) and transmission (3) as shown
- Tighten down the screws (5) firmly



- Remove the protective cap (6)
- Push the shaft (2) in the direction of the control handle (7) and the housing (8) and turn it until the distance $c = 2$ cm and $d = 4$ cm



- Align the housing (8) (with the manual fuel pump facing up), the control handle (7) (with the stop switch facing up) and the transmission (3) (with the oil tank cap facing up) as shown



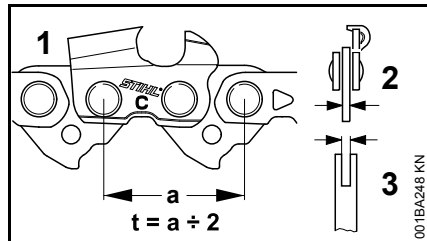
- Tighten down the screws (9) firmly

The pole pruner does not need to be dismantled again.

Cutting Attachment

A cutting attachment consists of the saw chain, guide bar and chain sprocket.

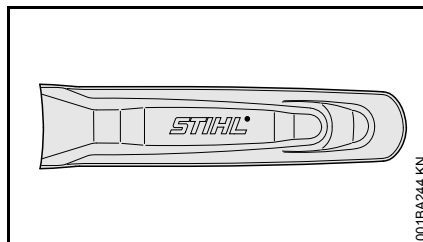
The cutting attachment that comes standard is designed to exactly match the pole pruner.



- The pitch (t) of the saw chain (1), chain sprocket and the nose sprocket of the Rollomatic guide bar must match.
- The drive link gauge (2) of the saw chain (1) must match the groove width of the guide bar (3).

If non-matching components are used, the cutting attachment may be damaged beyond repair after a short period of operation.

Chain Scabbard



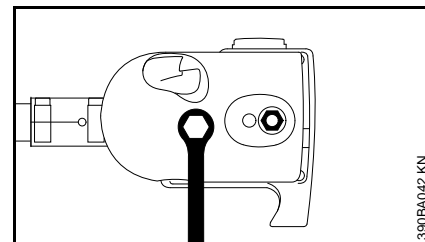
The scope of supply includes a bar scabbard that matches the cutting attachment.

If guide bars of different lengths are mounted to the pole pruner, always use a chain scabbard of the correct length which covers the complete guide bar.

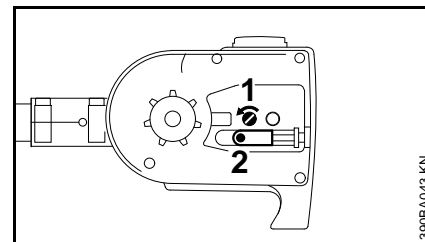
The length of the matching guide bars is marked on the side of the chain scabbard.

Mounting the Bar and Chain

Removing the chain sprocket cover

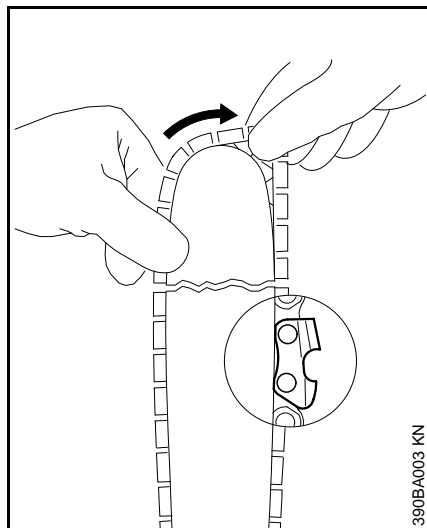


- Unscrew the nut and remove the cover.



- Turn the screw (1) counterclockwise until the tensioner slide (2) butts against the left end of the housing slot, then back it off 5 full turns.

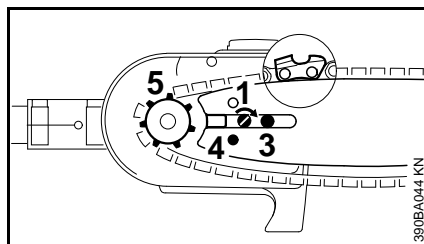
Fitting the chain



! WARNING

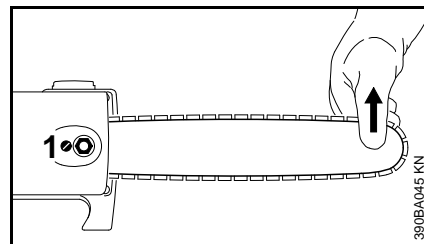
Wear work gloves to protect your hands from the sharp cutters.

- Fit the chain – start at the bar nose.



- Fit the guide bar over the screw (3) and engage peg of tensioner slide in the hole (4) – place the chain over the sprocket (5) at the same time.
- Turn the tensioning screw (1) clockwise until there is very little chain sag on the underside of the bar – and the drive link tangs are engaged in the bar groove.
- Refit the cover and screw on the nut fingertight.
- Go to chapter on "Tensioning the Saw Chain"

Tensioning the Chain



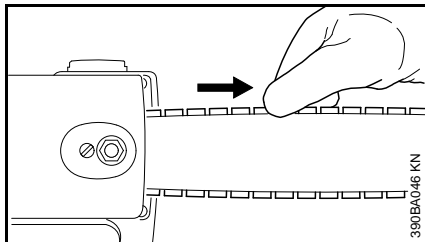
Re-tensioning during cutting work:

- Shut off the engine
- Loosen nuts
- Raise the guide bar at the nose
- Use the screwdriver to turn the screw (1) to the right until the saw chain rests against the underside of the guide bar
- Raise the guide bar further and tighten the nuts securely
- Next step: Continue with "Checking Chain Tension"

A new saw chain has to be re-tensioned more often than one that has been in use for some time.

- Check chain tension frequently – see chapter on "Operating Instructions"

Checking Chain Tension



- Shut off the engine
- Wear work gloves to protect your hands
- The saw chain must fit snugly against the underside of the bar and it must still be possible to pull the chain along the guide bar by hand
- If necessary, re-tension the saw chain

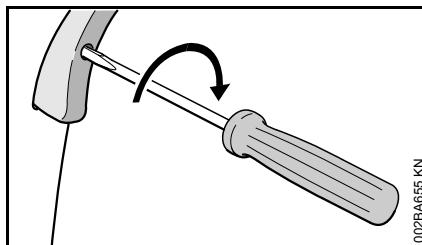
A new saw chain has to be re-tensioned more often than one that has been in use for some time.

- Check chain tension frequently – see chapter on "Operating Instructions"

Adjusting the Throttle Cable

It may be necessary to correct the adjustment of the throttle cable after assembling the machine or after a prolonged period of operation.

Adjust the throttle cable only when the unit is completely and properly assembled.

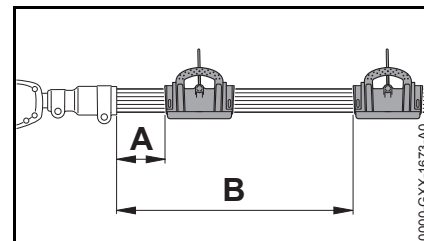


- Set the throttle trigger to the full throttle position.
- Carefully rotate the screw in the throttle trigger in the direction of the arrow until you feel initial resistance. Then rotate it another half turn in the same direction.

Fitting the Clip

Clip-On Carrying Ring (only versions with telescoping shaft)

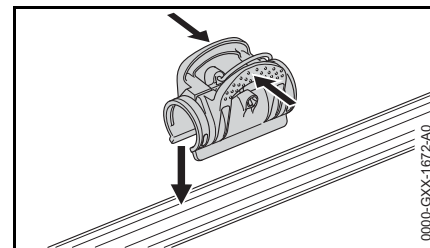
Position of carrying ring



Depending on the shaft length, the following positions are recommended:

- Telescoping shaft compressed, distance A = 15 cm (6 in)
- Telescoping shaft fully extended, distance B = 50 cm (20 in)

Fitting the clip-on carrying ring



- Squeeze the ends (arrows) together and push carrying ring onto the shaft.

Fuel

Your engine requires a mixture of gasoline and engine oil.



WARNING

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 uses STIHL HP Ultra two-stroke engine oil for an extra long engine life.

MotoMix is not available in all markets.

Mixing Fuel



NOTICE

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.

Gasoline with an ethanol content of more than 10% can cause running problems in engines with a manually adjustable carburetor and should not be used in such engines.

Engines equipped with M-Tronic deliver full power when run on gasoline with an ethanol content of up to 25% (E25).

Engine Oil

If you mix the fuel yourself, use only STIHL two-stroke engine oil or another high-performance engine oil in accordance with 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.

Mix Ratio

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

Examples

Gasoline Liters	STIHL engine oil 50:1 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)

- 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 30 days. Exposure to light, the sun, low or high temperatures can quickly make the fuel mix unusable.

STIHL MotoMix may be stored for up to 2 years without any problems.

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



WARNING

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

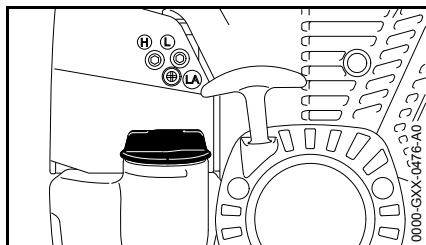
- Clean the fuel tank and canister from time to time.

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

Fueling

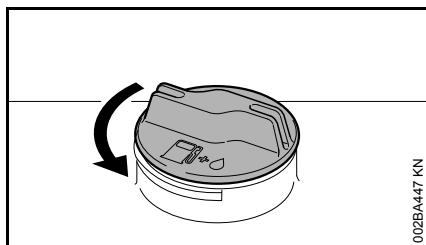


Preparations



- 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.

Opening the Tank Cap



- Turn the cap counterclockwise until it can be removed from the tank opening.
- Remove the tank cap.

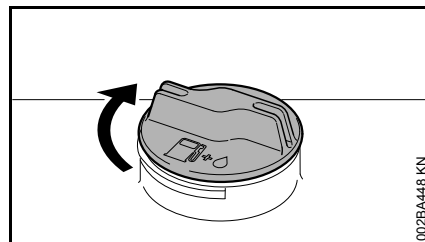
Filling Up with Fuel

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 up with fuel.

Closing the Tank Cap



- Place the cap in the opening.
- Turn the cap clockwise as far as stop and tighten it down as firmly as possible by hand.

Chain Lubricant

For automatic and reliable lubrication of the chain and guide bar – use only an environmentally compatible quality chain and bar lubricant. Rapidly biodegradable STIHL BioPlus is recommended.



Biological chain oil must be resistant to aging (e.g. STIHL BioPlus), since it will otherwise quickly turn to resin. This results in hard deposits that are difficult to remove, especially in the area of the chain drive and chain. It may even cause the oil pump to seize.

The service life of the chain and guide bar depends on the quality of the lubricant. It is therefore essential to use only a specially formulated chain lubricant.



Do not use waste oil. Renewed contact with waste oil can cause skin cancer. Moreover, waste oil is environmentally harmful.



Waste oil does not have the necessary lubricating properties and is unsuitable for chain lubrication.

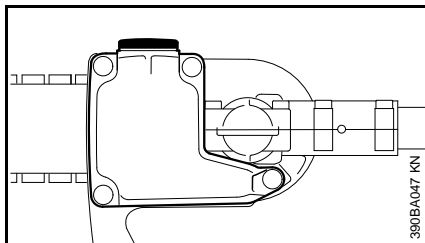
Filling Chain Oil Tank



NOTICE

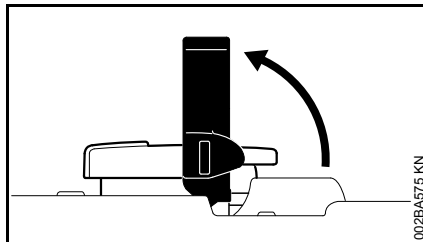
A full chain oil tank is sufficient for only half a tankful of fuel. Check the oil level regularly during cutting work. Never allow the oil tank to run dry.

Preparations

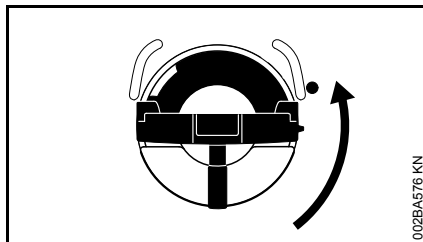


- Thoroughly clean the tank cap and the area around it to ensure that no dirt falls into the tank.
- Position the machine so that the tank cap faces up.

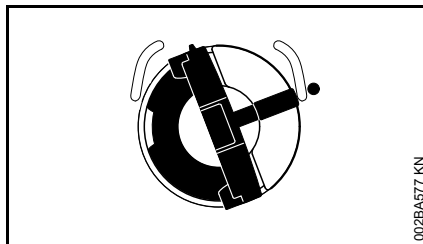
Opening



- Raise grip to vertical position.



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



Marks on tank cap and oil tank must line up.



- Remove the tank cap.

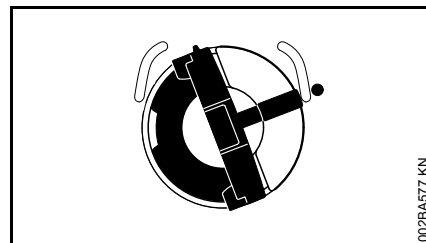
Filling Up with Chain Oil

- Fill the tank with chain oil.

Take care not to spill chain oil while refilling and do not overfill the tank.

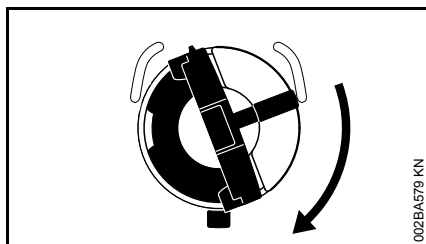
STIHL recommends you use the STIHL filler nozzle for chain oil (special accessory).

Closing

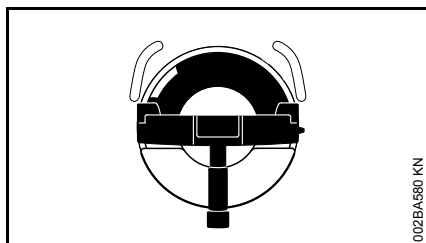


Grip must be vertical:

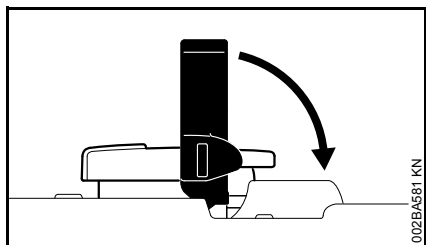
- Fit the cap – marks on tank cap and oil tank must line up.
- Press the cap down as far as stop.



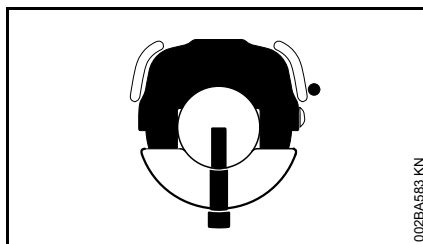
- While holding the cap depressed, turn it clockwise until it engages in position.



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



- Fold the grip down.



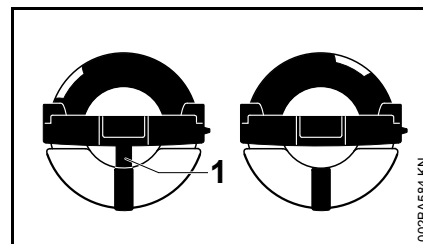
Tank cap is locked.

If the oil level in the tank does not go down, the reason may be a problem in the oil supply system: Check chain lubrication, clean the oilways, contact your dealer for assistance if necessary. STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer.

If the tank cap cannot be locked in the oil tank opening

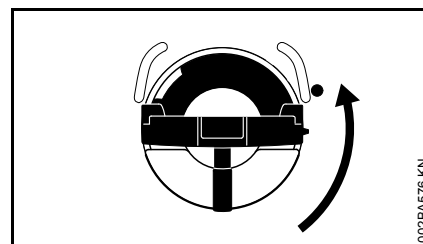
Bottom of cap is twisted in relation to top.

- Remove the cap from the oil tank and check it from above.



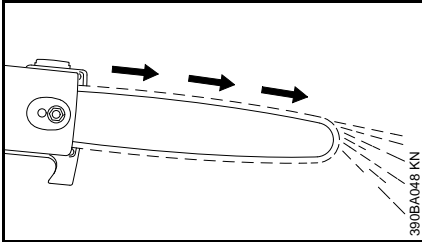
Left: Bottom of cap is twisted – inner mark (1) in line with outer mark.

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".

Checking Chain Lubrication



The saw chain must always throw off a small amount of oil.



NOTICE

Never operate without chain lubrication. If the chain runs dry, the whole cutting attachment will be irretrievably damaged within a very short time. Always check chain lubrication and the oil level in the tank before starting work.

Every new chain has to be broken in for about 2 to 3 minutes.

After breaking in the chain, check chain tension and adjust if necessary – see "Checking Chain Tension".

Maintaining and Sharpening the Saw Chain

Cutting effortlessly with a correctly sharpened chain

A properly sharpened chain slices through wood effortlessly and requires very little feed pressure.

Do not work with a dull or damaged chain as it will increase the physical effort required, produce unsatisfactory results and a higher rate of wear.

- Clean the chain.
- Check the chain for cracks in the links and damaged rivets.
- Replace any damaged or worn parts of the chain and match the new parts to the shape and size of the original parts.

Carbide-tipped saw chains (Duro) are particularly wear resistant. STIHL recommends you have your chain resharpened by a STIHL servicing dealer.

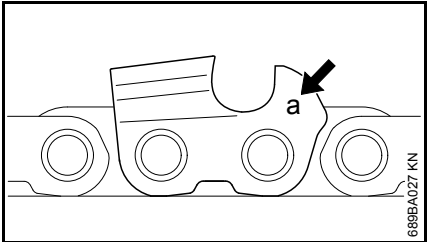


WARNING

It is absolutely essential to comply with the angles and dimensions specified below. If the saw chain is incorrectly sharpened – and in particular if the depth gauge is set too low – there is an increased risk of kickback, with resulting **risk of injury**.

The saw chain cannot be locked in place on the guide bar. Therefore, it is best to remove the chain from the bar and resharpen it on a workshop sharpening tool (FG 2, HOS, USG).

Chain pitch



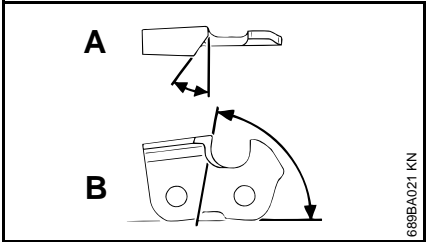
The chain pitch (a) is marked on the depth gauge end of each cutter.

Mark (a)	Chain pitch	
	inch	mm
7	1/4 P	6,35
1 or 1/4	1/4	6,35
6, P or PM	3/8 P	9,32
2 or 325	0.325	8,25
3 or 3/8	3/8	9,32

Select file diameter according to chain pitch – see table "Sharpening Tools".

You must observe certain angles when resharpening the chain cutter.

Filing and side plate angles



A Filing angle

STIHL saw chains are sharpened to a filing angle of 30°. Exceptions are ripping chains with a filing angle of 10°. Ripping chains have an X in their designations.

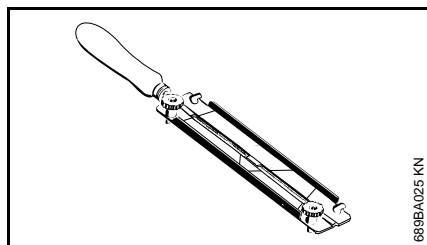
B Side plate angle

The correct side plate angle is obtained automatically if you use the prescribed file holder and file diameter.

Cutter shapes	Angle (°)	
	A	B
Micro = semi chisel cutter, e.g. 63 PM3, 26 RM3, 71 PM3	30	75
Super = chisel cutter, e.g. 63 PS3, 26 RS, 36 RS3	30	60
Ripping chain, e.g. 63 PMX, 36 RMX	10	75

The angles must be the same on all cutters. If the angles are uneven: Chain will run roughly, not in a straight line, wear quickly and finally break.

File holder

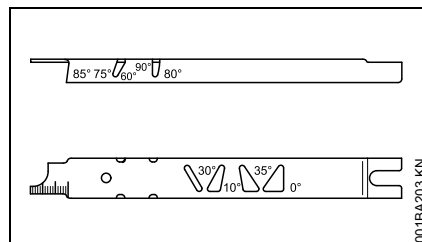


● Use a file holder

A file holder must be used for manual reshaping (see table "Sharpening Tools"). The correct filing angles are marked on the file holder.

Use only special saw chain sharpening files. Other files have the wrong shape and cut.

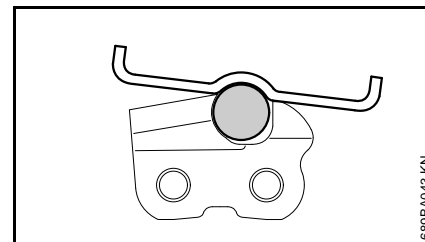
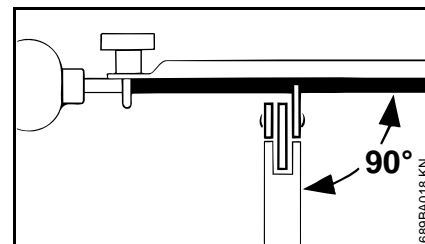
For checking angles



Use a STIHL filing gauge (special accessory, see table "Sharpening Tools"). This is a universal tool for checking the filing and side plate angles, depth gauge setting, cutter length and groove depth. It also cleans the guide bar groove and oil inlet holes.

File correctly

- Select sharpening tools according to chain pitch.
- If you use an FG 2, HOS or USG sharpener: Remove the chain from the bar and sharpen according to the instructions supplied with the tool.
- Clamp the bar in a vise if necessary.
- Sharpen the chain frequently, take away as little metal as possible – two or three strokes of the file are usually enough.

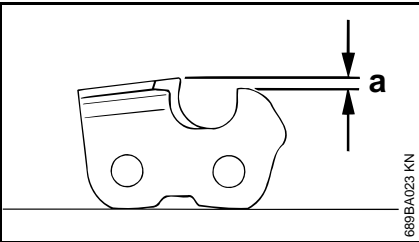


- Hold the file **horizontally** (at a right angle to the side of the guide bar) and file according to the angles marked on the file holder. Rest the file holder on the top plate and depth gauge.
 - Always file from the inside to the outside of the cutter.
 - The file only sharpens on the forward stroke – lift the file off the cutter on the backstroke.
 - Avoid touching the tie straps and drive links with the file.
 - Rotate the file at regular intervals while filing to avoid one-sided wear.
 - Use a piece of hardwood to remove burrs from the cutting edge.
 - Check angles with the filing gauge.
- All cutters must be the same length.

If the cutters are not the same length, they will have different heights. This makes the chain run roughly and can cause it to break.

- Find the shortest cutter and then file all other cutters back to the same length. It is best to have this work done by a servicing dealer on an electric grinder.

Depth gauge setting



The depth gauge determines the height at which the cutter enters the wood and thus the thickness of the chip removed.

- a** Specified distance or setting between depth gauge and cutting edge.

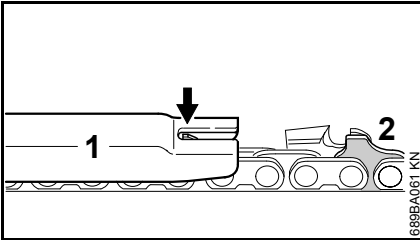
This setting may be increased by 0.2 mm (0.008") for cutting softwood in the mild weather season – no frost.

Chain pitch		Depth gauge Setting (a)	
inch	(mm)	mm	(inch)
1/4 P	(6,35)	0,45	(0.018)
1/4	(6,35)	0,65	(0.026)
3/8 P	(9,32)	0,65	(0.026)
0.325	(8,25)	0,65	(0.026)
3/8	(9,32)	0,65	(0.026)

Lowering depth gauges

The depth gauge setting is reduced when the chain is sharpened.

- Use a filing gauge to check the setting every time you sharpen the chain.

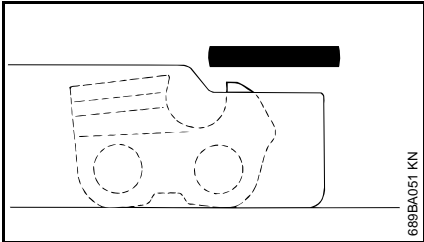


- Place a filing gauge (1) that matches the chain pitch on the chain and press it against the cutter – if the depth gauge projects from the filing gauge, the depth gauge has to be lowered.

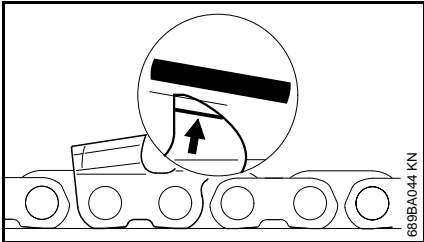
Saw chains with humped drive link (2) – upper part of humped drive link (2) (with service mark) is lowered along with the depth gauge.

! WARNING

The other parts of the humped drive link must not be filed since this may increase the kickback tendency of the power tool.



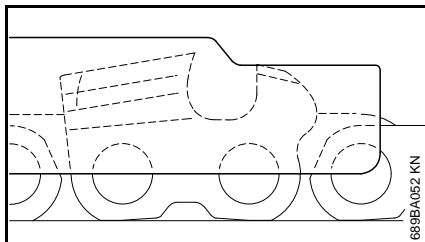
- File down the depth gauge until it is level with the filing gauge.



- File the top of the depth gauge parallel to the stamped service marking (see arrow) – but do not lower the highest point of the depth gauge in this process.

! WARNING

The kickback tendency of the machine is increased if the depth gauges are too low.



- After sharpening, clean the chain thoroughly, remove filings or grinding dust – lubricate the chain thoroughly.
- Before a long out-of-service period, clean the chain and store it in a well-oiled condition.

- Place the filing gauge on the chain – the highest point of the depth gauge must be level with the filing gauge.

Sharpening Tools (special accessories)

Chain pitch		Round file Ø		Round file	File holder	Filing gauge	Flat file	Sharpening kit ¹⁾
inch	(mm)	mm	(inch)	Part No.	Part No.	Part No.	Part No.	Part No.
1/4 P	(6,35)	3,2	(1/8)	5605 771 3206	5605 750 4300	0000 893 4005	0814 252 3356	5605 007 1000
1/4	(6,35)	4,0	(5/32)	5605 772 4006	5605 750 4327	1110 893 4000	0814 252 3356	5605 007 1027
3/8 P	(9,32)	4,0	(5/32)	5605 772 4006	5605 750 4327	1110 893 4000	0814 252 3356	5605 007 1027
0.325	(8,25)	4,8	(3/16)	5605 772 4806	5605 750 4328	1110 893 4000	0814 252 3356	5605 007 1028
3/8	(9,32)	5,2	(13/64)	5605 772 5206	5605 750 4329	1110 893 4000	0814 252 3356	5605 007 1029

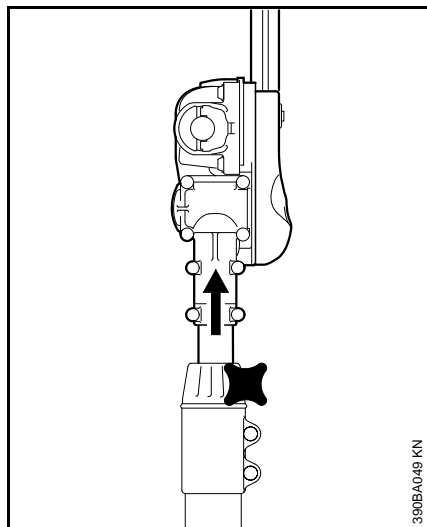
¹⁾ consisting of file holder with round file, flat file and filing gauge

Adjusting the Telescoping Shaft



WARNING

Always shut off the engine and fit the chain guard

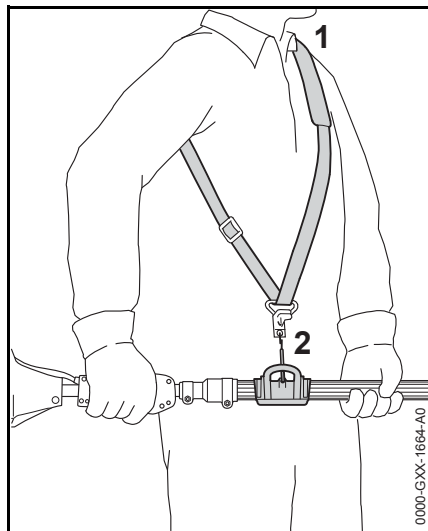


- Loosen the screw.
- Adjust shaft to the required length.
- Tighten down the screw firmly.

Fitting the Harness

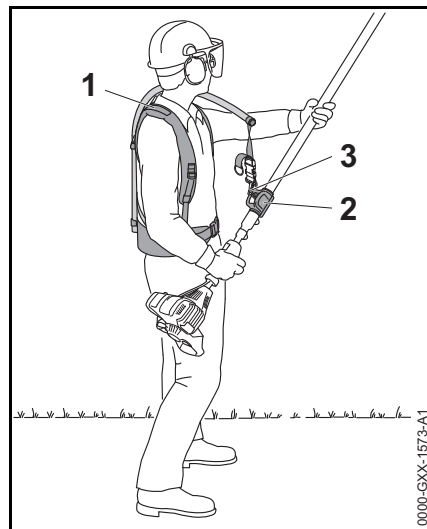
The type and style of the harness depend on the market.

Shoulder Strap

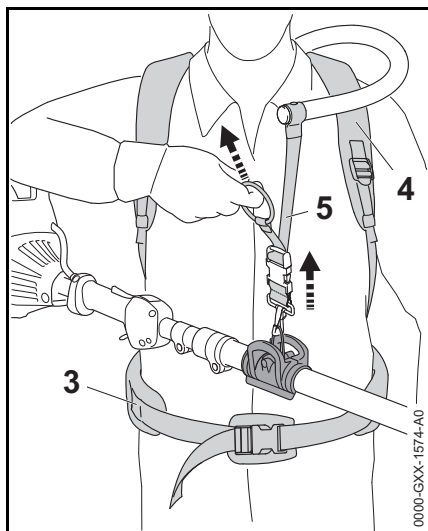


- Put on the shoulder strap (1).
- Adjust the length of the strap.
- With the power tool attached, the carabiner (2) must be at about the same height as your right hip.

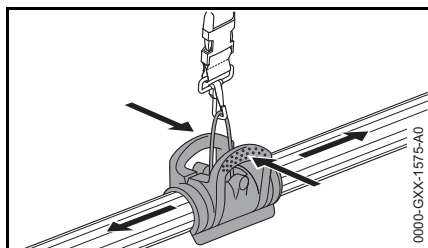
Backpack Carrying System



- Put the backpack carrying system (1) on your back and adjust it as described in the instruction leaflet provided.
- Attach the carabiner (3) to the clip-on carrying ring (2) on the shaft.
- Attach the pole pruner to the carrying strap when cutting.



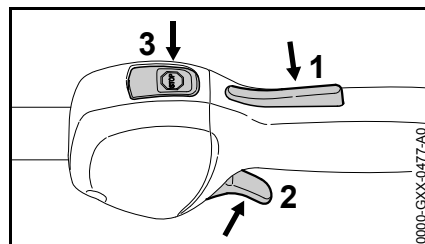
- Adjust the hip belt (3), both shoulder straps (4) and the carrying strap (5).



- Squeeze the clip (carrying ring) together to move it up or down the shaft.

Starting / Stopping the Engine

Controls

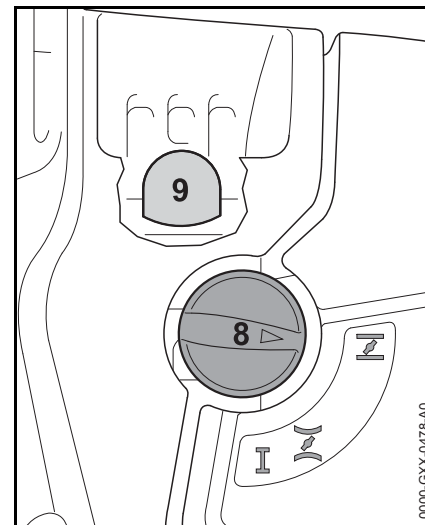


- 1 Throttle trigger lockout
- 2 Throttle trigger
- 3 Stop switch with **Run** and **Stop** positions. Depress the stop switch (⊖) to switch off the ignition – see "Function of stop switch and ignition system".



Function of stop switch and ignition system

The ignition is switched off and the engine stopped when the stop switch is pressed. The stop switch returns automatically to the **Run** position when it is released: The ignition is switched on again after the engine stops – the engine is then ready to start.

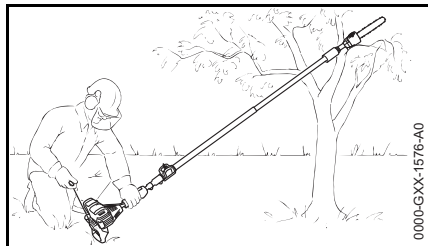
Starting the Engine



- Press the manual fuel pump bulb (9) at least five times – even if the bulb is already filled with fuel.
- Press in the choke knob (8) and turn it to the position that suits the engine temperature:

-  if the engine is cold
-  for warm start – also use this position if the engine has been running but is still cold.

Cranking



- Remove the chain scabbard. Check that the chain is not touching the ground or any other obstacles.
- Place the unit on the ground: It must rest securely on the engine support and the hook. If necessary, rest the hook on a raised support (e.g. a branch, mound or something similar).

WARNING

Check that nobody is standing within the working range of the pruner.

- Make sure you have a safe and secure footing.
- Hold the unit with your left hand on the fan housing and press it down firmly – your thumb should be under the fan housing.

NOTICE

Do not stand or kneel on the drive tube.

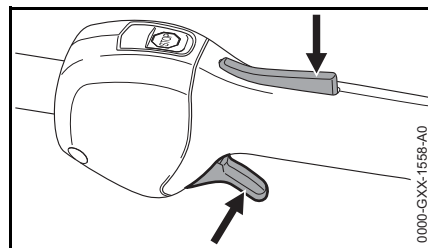
- Hold the starter grip with your right hand.
- Pull the starter grip slowly until you feel it engage and then give it a brisk strong pull.

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.
- Continue cranking until the engine runs.

As soon as the engine runs



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

WARNING

Risk of injury from saw chain running when the engine is idling. Adjust the carburetor so that the saw chain does not run when the engine is idling – see “Adjusting the Carburetor”.

Your machine is now ready for operation.

Stopping the Engine

- Depress the stop switch – the engine stops – release the stop switch – it springs back to the run position.

Other Hints on Starting

Engine stalls in cold start position **I or under acceleration.**

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

Engine does not start in warm start position **II**

- Move the choke knob to **I** 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

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

Fuel tank run until completely dry

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

Operating Instructions**During Break-In Period**

A factory-new machine should not be run at high revs (full throttle off load) for the first three tank fillings. This avoids unnecessary high loads during the break-in period. As all moving parts have to bed in during the break-in period, the frictional resistances in the engine are greater during this period. The engine develops its maximum power after about 5 to 15 tank fillings.

During Operation**NOTICE**

Do not make the mixture leaner to achieve an apparent increase in power – this could damage the engine – see "Adjusting the Carburetor".

Check chain tension frequently

A new chain has to be retensioned more often than one that has been in use for some time.

Chain cold

Tension is correct when the chain fits snugly against the underside of the bar and can still be pulled along the bar by hand. Retension if necessary – see "Tensioning the Saw Chain".

Chain at operating temperature

The chain stretches and begins to sag. The drive links must not come out of the bar groove – the chain may otherwise jump off the bar. Retension the chain – see "Tensioning the Saw Chain".

**NOTICE**

The chain contracts as it cools down. If it is not slackened off, it can damage the gear shaft and bearings.

After long period of full-throttle operation

Allow engine to run for a short while at idle speed so that engine heat can be dissipated by the flow of cooling air. This protects engine-mounted components (ignition, carburetor) from thermal overload.

After Finishing Work

- Slacken off the chain if you have retensioned it at operating temperature during cutting work.

**NOTICE**

Always slacken off the chain after finishing work. The chain contracts as it cools down. If it is not slackened off, it can damage the gear shaft and bearings.

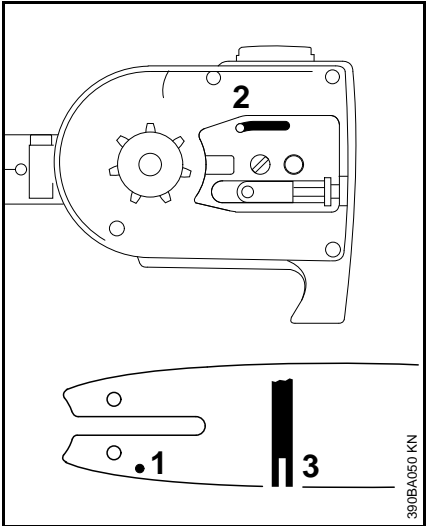
Storing your saw for a short period

Fit the chain scabbard and allow engine to cool down. To avoid condensation, fill the fuel tank and keep the machine in a dry place, well away from sources of ignition, until you need it again.

Storing for a long period

See chapter on "Storing the Machine"

Taking Care of the Guide Bar



The drive link tangs will otherwise scrape along the bottom of the groove – the cutters and tie straps will not ride on the bar rails.

- Turn the bar over – every time you sharpen the chain and every time you replace the chain – this helps avoid one-sided wear, especially at the nose and underside of the bar.
- Regularly clean the oil inlet hole (1), the oilway (2) and the bar groove (3).
- Measure the groove depth – with the scale on the filing gauge (special accessory) – in the area used most for cutting.

Chain type	Chain pitch	Minimum groove depth
Picco	3/8" P	5.0 mm

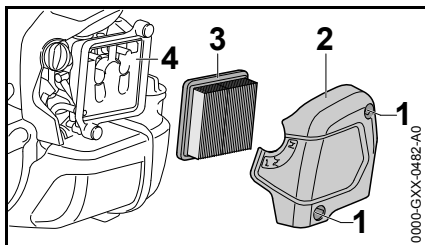
If groove depth is less than specified:

- Replace the guide bar.

Replacing the Air Filter

Filters have an average life of more than a year. Do not remove the filter cover or replace the air filter as long as there is no noticeable loss of power.

If there is a noticeable loss of engine power



- Turn the choke knob to \overline{I} .
- Loosen the screws (1).
- Remove the filter cover (2).
- Clean away loose dirt from around the filter.
- Remove the filter element (3).
- Replace dirty or damaged filter element (3).
- Replace any damaged parts.

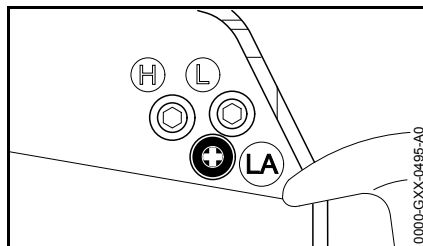
Installing the Filter Element

- Install the filter element (3) in the filter housing and fit the cover.
- Insert the screws (1) and tighten them down firmly.

Adjusting the Carburetor

The carburetor has been set at the factory to provide an optimum fuel-air mixture under most operating conditions.

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 saw chain must not rotate.

Chain rotates when engine is idling

- Turn the idle speed screw (LA) counterclockwise until the chain stops running and then turn the screw another 1/2 to 3/4 turn in the same direction.



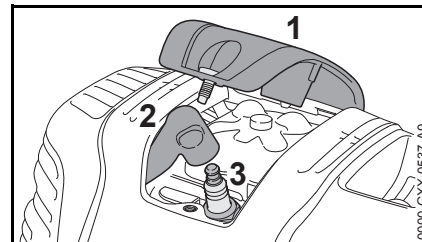
WARNING

If the chain continues moving when the engine is idling, have your power tool checked and repaired by your servicing dealer.

Spark Plug

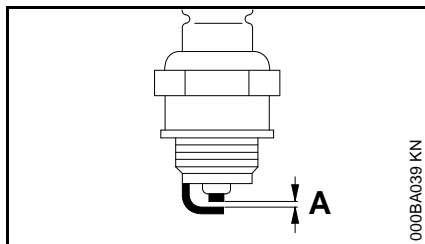
- If the engine is down on power, difficult to start or runs poorly at idle speed, first check the spark plug.
- Fit a new spark plug after about 100 operating hours – or sooner if the electrodes are badly eroded. Install only suppressed spark plugs of the type approved by STIHL – see "Specifications".

Removing the Spark Plug



- Remove the cover (1).
- Pull off the spark plug boot (2).
- Unscrew the spark plug (3).

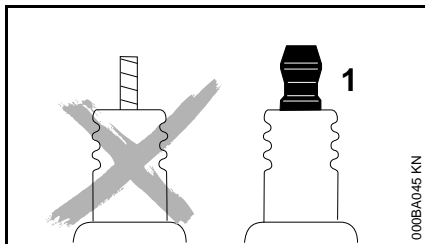
Checking the Spark Plug



- 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.

Installing the Spark Plug

- Screw the spark plug (3) into the cylinder.
- Tighten down the spark plug (3) with the combination wrench.
- Press the boot (2) firmly onto the spark plug.
- Fit the cover (1) and screw it down firmly.

Storing the Machine

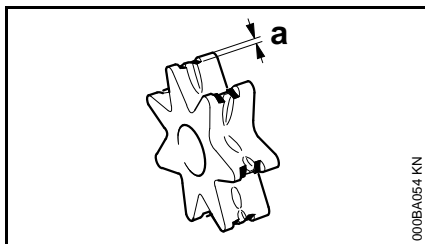
For periods of 3 months or longer

- Drain and clean the fuel tank in a well ventilated area.
- Dispose of fuel properly in accordance with local environmental requirements.
- Run the engine until the carburetor is dry – this helps prevent the carburetor diaphragms sticking together.
- Remove the saw chain and guide bar, clean them and spray with corrosion inhibiting oil.
- Thoroughly clean the machine – pay special attention to the cylinder fins and air filter.
- If you use a biological chain and bar lubricant, e.g. STIHL BioPlus, completely fill the chain oil tank.
- Store the machine in a dry, high or locked location, out of the reach of children and other unauthorized persons.

Checking and Replacing the Chain Sprocket

- Remove the chain sprocket cover, chain and guide bar.

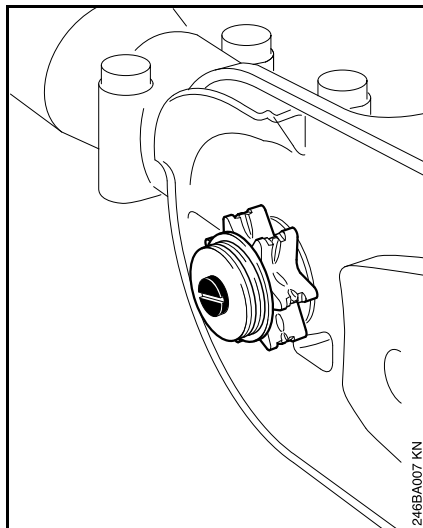
Replace the chain sprocket



- after using two saw chains or sooner
- if the wear marks (a) on the sprocket are deeper than approx. 0.5 mm since this would reduce the life of the chain. You can use a gauge (special accessory) to check the depth of the wear marks.

It is best to use two saw chains in rotation with one sprocket.

STIHL recommends the use of original STIHL chain sprockets.



The chain sprocket is driven via a friction clutch. Have the chain sprocket replaced by a servicing dealer.

STIHL recommends that you have servicing and repair work carried out exclusively by an authorized STIHL servicing dealer.

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	Clean							X		X
	Replace ²⁾								X	
Manual fuel pump (if fitted)	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 – chain must not rotate	X		X						
	Adjust idle speed									X
Spark plug	Readjust electrode gap							X		
	Replace after every 100 operating hours									
Cooling inlets	Visual inspection		X							
	Clean									X
Cylinder fins	Have cleaned by servicing dealer ¹⁾						X			
Valve clearance	If power is low or cranking effort very high, have valve clearance checked and, if necessary, adjusted by servicing dealer ¹⁾							X		X
Combustion chamber	Have cleaned after every 150 hours of operation by servicing dealer ¹⁾									X
All accessible screws and nuts (not adjusting screws)	Retighten									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
Antivibration elements	Check	X						X		X
	Have replaced by servicing dealer ¹⁾								X	
Chain lubrication	Check	X								
Saw chain	Inspect, also check sharpness	X		X						
	Check chain tension.	X		X						
	Sharpen									X
Guide bar	Check (wear, damage)	X								
	Clean and turn over				X			X		
	Deburr				X					
	Replace								X	X
Chain sprocket	Check				X					
	Have replaced by servicing dealer ¹⁾									X
Safety labels	Replace								X	

¹⁾ STIHL recommends an authorized STIHL servicing dealer.

²⁾ Only if there is a noticeable loss of engine power

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.

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:

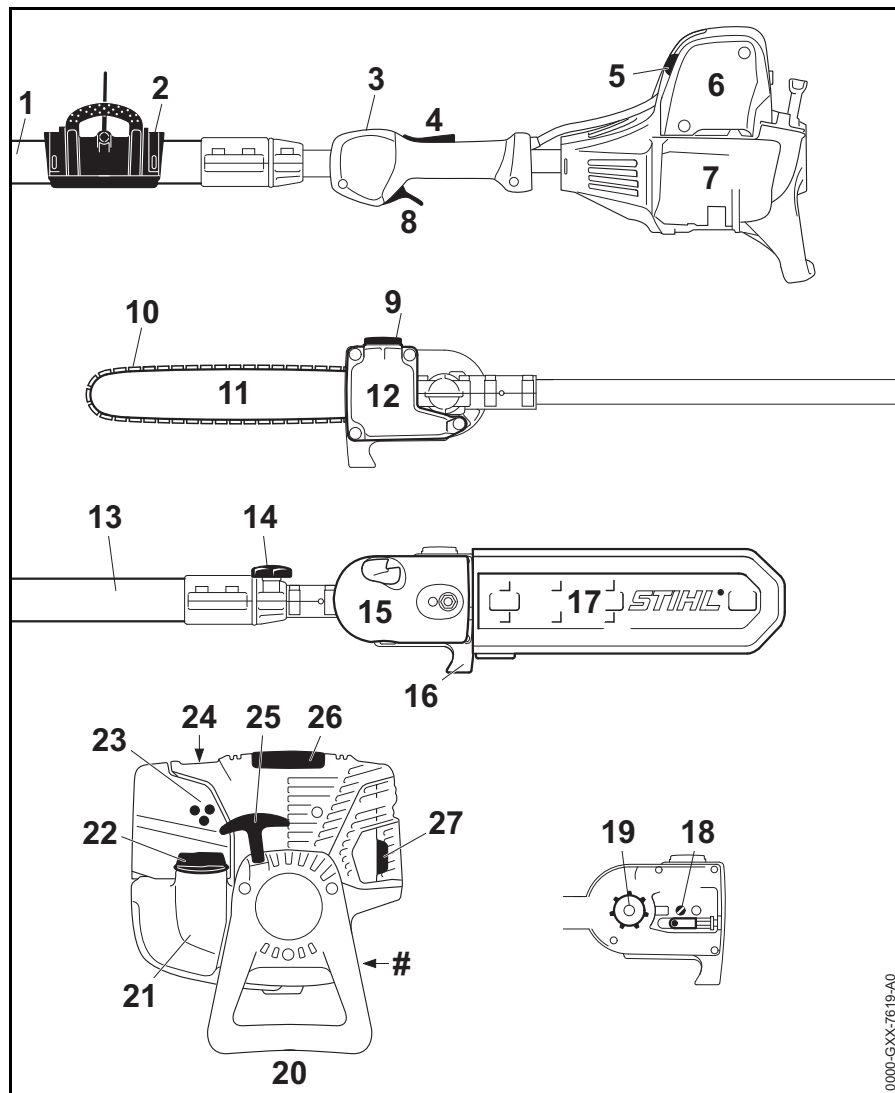
- Damage to the engine due to neglect or deficient maintenance (e.g. air and fuel filters), incorrect carburetor adjustment or inadequate cleaning of cooling air inlets (intake ports, cylinder fins).
- Corrosion and other consequential damage resulting from improper storage.
- Damage to the machine resulting from the use of poor quality replacement parts.

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:

- Saw chain, guide bar
- Drive components (clutch, clutch drum, chain sprocket)
- Filters (air, oil, fuel)
- Starter mechanism
- Spark plug
- Components of antivibration system

Main Parts



- 1 Handle Hose
- 2 Clip-on Carrying Ring
- 3 Stop Switch
- 4 Throttle Trigger Lockout
- 5 Choke Lever
- 6 Air Filter Cover
- 7 Fuel Tank
- 8 Throttle Trigger
- 9 Oil Tank Cap
- 10 Oilomatic Chain
- 11 Guide Bar
- 12 Oil Tank
- 13 Telescopic Drive Tube
- 14 Clamp Nut
- 15 Chain Sprocket Cover
- 16 Hook
- 17 Chain Scabbard
- 18 Chain Tensioner
- 19 Chain Sprocket
- 20 Machine Support
- 21 Fuel Tank
- 22 Tank Cap
- 23 Carburetor Adjusting Screws
- 24 Manual Fuel Pump
- 25 Starter Grip
- 26 Cover
- 27 Muffler
- # Serial Number

0000-GXX-7619-A0

Specifications

Engine

STIHL single cylinder four-stroke engine with mixture lubrication

Displacement:	36.3cm ³
Cylinder bore:	43 mm
Piston stroke:	25 mm
Engine power to ISO 8893:	1.4 kW (1.9 hp) at 8500 1/min
Idle speed to ISO 11680:	2800 ± 50 rpm
Cut-off speed (nominal value):	9500 rpm
Valve clearance	
Inlet valve:	0.10 mm
Exhaust valve:	0.10 mm

Ignition system

Electronic magneto ignition	
Spark plug (suppressed):	NGK CMR 6 H
Electrode gap:	0.5 mm

Fuel system

All-position diaphragm carburetor with integral fuel pump	
Fuel tank capacity:	710 cm ³ (0.71 l)

Chain lubrication

Fully automatic, speed-controlled oil pump with rotary piston	
Oil tank capacity:	220 cm ³ (0.22 l)

Weight

dry, without cutting attachment	
7.8 kg	

Cutting attachment

The actual cutting length may be less than the specified cutting length.

Rollomatic E Mini guide bars

Blade length:	25, 30 cm
Pitch:	3/8" P (9.32 mm)
Groove width:	1.1 mm

Saw chain 3/8" P

Picco Micro Mini 3 (61 PMM3) Type 3610	
Pitch:	3/8" P (9.32 mm)
Drive link gauge:	1.1 mm

Chain sprocket

6-tooth for 3/8" P	
7-tooth for 3/8" P	

Noise and Vibration Data

Noise and vibration data measurements include idling and rated maximum speed with the same duration of exposure.

For further details on compliance with Vibration Directive 2002/44/EC visit www.stihl.com/vib.

Sound pressure level L_p to ISO 22868

92 dB(A)

Sound power level L_w to ISO 22868

109 dB(A)

Vibration measurement a_{h_v,eq} to ISO 22867

Left handle	
Shaft compressed:	6.7 m/s ²
Shaft extended:	5.3 m/s ²
Control handle	
Shaft compressed:	5.9 m/s ²
Shaft extended:	4.6 m/s ²

The K-factor in accordance with Directive 2006/42/EC is 2.0 dB(A) for the sound pressure level and sound power level; the K-factor in accordance with Directive 2006/42/EC is 2.0 m/s² for the vibration level.

REACH

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

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

Exhaust Emissions

The CO₂ value measured in the EU type approval procedure is specified at www.stihl.com/co2.

The measured CO₂ 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 instruction manual. The type approval expires if the engine is modified in any way.


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.

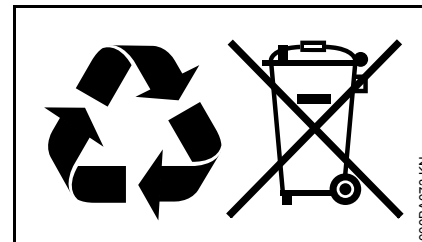
When repairing the machine, only use replacement parts which have been approved by STIHL for this power tool or are technically identical. Only use high-quality replacement parts in order to avoid the risk of accidents and damage to the machine.

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).

Disposal

Observe all country-specific waste disposal rules and regulations.



STIHL products must not be thrown in the garbage can. Take the product, accessories and packaging to an approved disposal site for environment-friendly recycling.

Contact your STIHL servicing dealer for the latest information on waste disposal.

EC Declaration of Conformity

ANDREAS STIHL AG & Co. KG

Badstr. 115

D-71336 Waiblingen

Germany

declare under our sole responsibility that

Designation: Pole pruner

Make: STIHL

Series: HT 131

Serial identification
number: 4182

Displacement: 36.3 cm³

conforms to the relevant provisions of
Directives 2011/65/EU, 2006/42/EC and
2014/30/EU and has been developed
and manufactured in compliance with
the following standards in the versions
valid on the date of production:

EN ISO 11680-1, EN 55012,
EN 61000-6-1

The EC type examination was carried
out by

TÜV Süd Product Service GmbH
(NB 0123)
Ridlerstraße 65
D-80339 München

Certification No.:

M6A 010127 518

Technical documents deposited at:

ANDREAS STIHL AG & Co. KG
Produktzulassung

The year of manufacture and serial
number are applied to the product.

Done at Waiblingen, 03.02.2020

ANDREAS STIHL AG & Co. KG

pp



Dr. Jürgen Hoffmann

Head of Product Data, Regulations and
Licensing



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englisch



www.stihl.com



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