



PETROL CHAINSAW

RAC4540CS

USER GUIDE

WARNING: Read thoroughly the instruction manual before using.

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SAFETY WARNINGS

- **WARNING!** When using this type of garden tool, basic precautions should always be followed to reduce the risk of fire, electric shock and injury.
- Read all instructions carefully before attempting to use this product and retain these instructions. Be familiar with all the operations described in these operating instructions. This product must be operated by experienced users.
- Inexperienced users shall first be trained in all operations by a professional.
- If you are giving this machine to others, please also provide them with this instruction manual.
- Take into account all the markings affixed to the product. The symbols are explained in this manual.
- Use this machine as described in this instruction manual. It is strictly forbidden to use this tool for applications other than those described in this manual.
- Failure to follow these instructions can result in serious injuries and, in some cases, death.
- This product is intended for private domestic use only. Do not use it for commercial purposes.
- Never let people unfamiliar with these instructions or children use this product.
- National regulations may limit the use of the machine.
- People under the age of 18 must not use this product
- Keep in mind that the operator or user is responsible for accidents or risks to other persons or their property.
- Do not use the tool if you are drunk, tired, under the influence of drugs or ill. Do not use the tool if you are not in an adequate physical condition.
- This tool is intended for outdoor use. Never use it indoors.
- When transporting the machine:
 - Secure the machine during transport to prevent loss of fuel, damage or injury.
 - Use a carrying case to protect the cutter during transport.
- Keep people and animals away from the work area. Children and people who do not know how to use this tool should not touch it and handle it.
- Keep them at least 15 m from the machine during operation,
- Use the product only under daylight or under good artificial light.
- When using the machine, always wear full protective equipment including a helmet, protective mask, ear protection, gloves, non-slip footwear and protective clothing.
- Wear appropriate clothing. Do not wear loose or unbuttoned shirts. Do not wear jewellery that may come in contact with moving parts. If you have long hair, tie it down and wear an appropriate safety helmet.
- Do not operate the product with damaged guards or shields in place.
- Keep hands and feet of the appliance at all times and especially when turning the appliance off and on.
- Do not use the tool in an area where ventilation is poor. Gas emissions can cause injury.
- Do not use the tool in the presence of flammable liquids or gases.
- Caution: The machine releases gases when it is used. Avoid coming into contact with these gases.
- Keep the work area clear. Before working, inspect the work area and remove any materials or objects that could cause accidents.
- Do not force the tool.
- Use only accessories supplied or recommended by the manufacturer (such as saw chain and guide bar combinations). Using other accessories may cause an accident. Refer to the “Technical Information” section of this manual or ask your dealer for advice.
- The risks of slipping and skidding must be foreseen as there is a high risk of kickback. Do not lean. Keep a good balance at all times. Do not lose your balance at the end of a cut.
- To maintain tools and accessories with care, keep cutting tools sharp and clean for best and safest performance. Follow the instructions in this manual for lubricating and changing accessories.
- Always inspect the machine before and after operation. If the tool is damaged or faulty, stop using the tool and bring it to an authorized service for inspection and repair.

- Turn off the tool after use, when you leave it unattended, when changing these accessories and before servicing.
- Keep handles dry, clean and free of oil and grease.
- Be concentrated when using the tool. Look at what you do, use good sense and do not use the tool when you are tired.
- Remove the blade guard before using the tool.
- A damaged guard or other part must be properly repaired or replaced by an authorized service center, unless otherwise specified in this instruction manual.
- Do not use the tool if the starter is not working (if it cannot be turned ON and OFF).
- Place the equipment in a well-lit area, on a flat, stable, dry and well-ventilated surface, away from flammable products and with plenty of space for the evacuation of sparks and sharpening waste.
- Immediately stop the tool in the event of a malfunction of the motor or in case of unusual noise.
- Do not use the tool if the starter is damaged.
- Do not move the chain with your hand with the wheel moving.
- Do not stop the chain with your hands or other objects.
- Treat the chain teeth with caution during operation; they can cause severe cuts.
- When not in use, the machine must be stored in a dry, locked place out of the reach of children.
- Before using the product and after any shock, please check it for signs of wear or damage. Please carry out repairs if necessary.
- Always switch off the machine:
 - Every time you leave the device unattended;
 - Before releasing an obstruction;
 - Before checking, cleaning or working on the product;
 - After hitting a foreign object;
 - Every time the product starts to vibrate abnormally.
- Pay attention to foot and cutting injuries.
- Inspect and regularly service the product. Repairs should be carried out only by an authorized service center or a similar qualified specialist.
- When not in use, the machine must be stored in a locked dry place, out of the reach of children.
- When transporting the tool, always add the blade guard to the blade. Always carry the tool by holding the handle, never the blade.
- Do not use the product on a slippery surface.
- Do not use the product on steep, slippery slopes.
- When planning your work schedule, allow enough time for rest. Limit continuous use of the device, eg use 30 ~ 40 minutes per session, and take 10 ~ 20 minutes of rest between work sessions. Work a maximum of two hours per day.
- If the machine has struck foreign objects, check if the tool is damaged and bring it to repair if necessary.
- Do not place any part of the body on the chain when the chainsaw is operating. Before starting the chain saw, make sure that the chain is not in contact with anything. A moment of inattention during use may cause your clothing or body part to stick to the chain.
- Always hold the chainsaw back handle with your right hand and the front handle with your left hand. Hold the chainsaw by inverting your hands increases the risk of personal injury and should never be used.
- For the chainsaw designed with the chain guide on the left side, the reference to the "right hand" and "left hand" positions is reversed.
- When cutting a branch that is under stress, pay attention to the risk of elastic return. When the tension of the wood fibres is released, the spring-loaded limb may strike the operator and / or project the chain saw out of control.
- Follow the instructions for lubrication, tension and chain change accessories. A chain whose tension and lubrication are incorrect can either break or increase the risk of rebound.
- Keep handles dry, clean and free of oil and grease. Oily, greasy grips are slippery and cause loss of

control.

- Be careful when using the machine during stormy weather. Do not use the machine during lightning, thunderstorms or in bad weather. Do not expose the tool to rain.
- Do not use the tool in damp environment.
- It is recommended to use the spiked bumper provided for cutting trees and thick branches.
- Perform regular functional check of the clutch. It should be no have chain movement at idling speed.
- When operating the tool, be careful of the emission of exhaust gases, lubrication oil mist and saw dust; avoid being exposed to these and wear protective equipment.
- Wear protective gloves when assembly, disassembly, sharpening chain tensioning and when handling the guide bar.
- Guide-bar and chain adjustments should be performed with the engine stopped (machine switched off).
- Regularly check and test the chain brake.
- Hazards may be encountered while using the saw, such as blockage of the saw chain, in order to reduce hazards, follow the instruction for cutting operation; always check the condition of the tool, do not start the chainsaw directly in the tree.

FUEL HANDLING

- Be very careful when handling fuels. They are flammable and the vapors are explosive.
- Use only an approved container.
- Never remove the fuel cap or add fuel while the machine is on. Turn off the unit and allow the engine and exhaust components to cool before refueling.
- Do not smoke.
- Never refuel inside a room.
- Never store the tool and the fuel tray indoors where there is a naked flame, such as near a water heater.
- If fuel has spilled, do not attempt to start the machine, but rather move it away from the spill before starting to use it. Clean any spills.
- Replace and tighten the fuel tank cap after refueling.
- Follow the instructions in this manual for filling the tool with fuel.

DURING MAINTENANCE AND STORAGE

- Stop the tool and wait until it stops. Make sure all moving parts have come to a standstill.
- Allow the machine to cool before performing inspection, adjustments, maintenance, servicing and storage.
- Store the tool where fuel vapor will not reach a flame or spark.
- When transporting and storing, always place the tool in its transport guard and protective device on it.

CAUSES OF REBOUNDS AND PREVENTION BY THE OPERATOR

- Bounce may occur when the spout or end of the chain guide touches an object, or when the wood tightens and pinches the cutting chain in the cutting section.
- The contact of the tip may in some cases cause a sudden reverse reaction by bouncing the chain guide up and back towards the operator.
- Pinching of the cutting chain on the upper part of the chain guide can force the chain guide to the operator abruptly.
- Either of these reactions can result in loss of control of the saw likely to result in a serious personal injury. Do not rely exclusively on safety devices built into your saw. As a chain saw user, all measures should be taken to eliminate the risk of accident or injury during cutting.
- Bounce results from improper use of the tool and / or incorrect operating procedures or conditions and can be avoided by taking the appropriate precautions specified below:
 - Hold the saw with both hands firmly with the thumbs and fingers encircling the handles of the saw and place your body and arms to allow you to withstand the rebound forces. The rebound forces

can be controlled by the operator, if appropriate precautions are taken. Do not allow the chain saw to start.

- Do not stretch the arm too far and do not cut above the shoulder height. This helps prevent unintentional end contacts and allows better control of the chain saw in unforeseen situations.
- Use only the manufacturers specified replacement guides and chains. Incorrect replacement guides and chains may cause chain breakage and / or rebound.
- Follow manufacturer's instructions for sharpening and servicing the chain saw. A decrease in the depth gauge level can lead to an increase in rebounds.








RESIDUAL RISKS


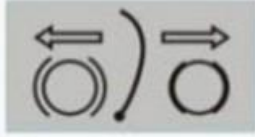



Even if you use this product in compliance with all safety requirements, the potential risk of injury and damage remains. The following hazards may arise from the structure and design of this product:

- There are adverse health consequences resulting from the emission of vibration if the product is used over long periods of time or not properly operated and properly maintained. Wear hearing protection.
- There is risk of injury and property damage due to sudden impact on hidden objects.
- There is a risk of hearing loss with prolonged use, especially if hearing protection is not worn. Always wear hearing protection and limit the operating time.
- Cuts if no appropriate protective equipment is worn.
- Inhalation of particles and exhaust gases if no protective mask is worn.
- Risk of personal injury and property damage caused by flying objects.
- Prolonged use of this product exposes the operator to vibration and may produce "white finger" disease. To reduce the risk, please wear gloves and keep your hands warm. If any of the symptoms of "white finger" syndrome appear, seek medical attention immediately. Symptoms of "white finger" include:
 - Numbness, loss of feeling, tickling, tingling,
 - Pain, loss of strength, changes in skin colour or condition.

These symptoms usually appear on the fingers, hands or wrists. The risk increases in cold weather.

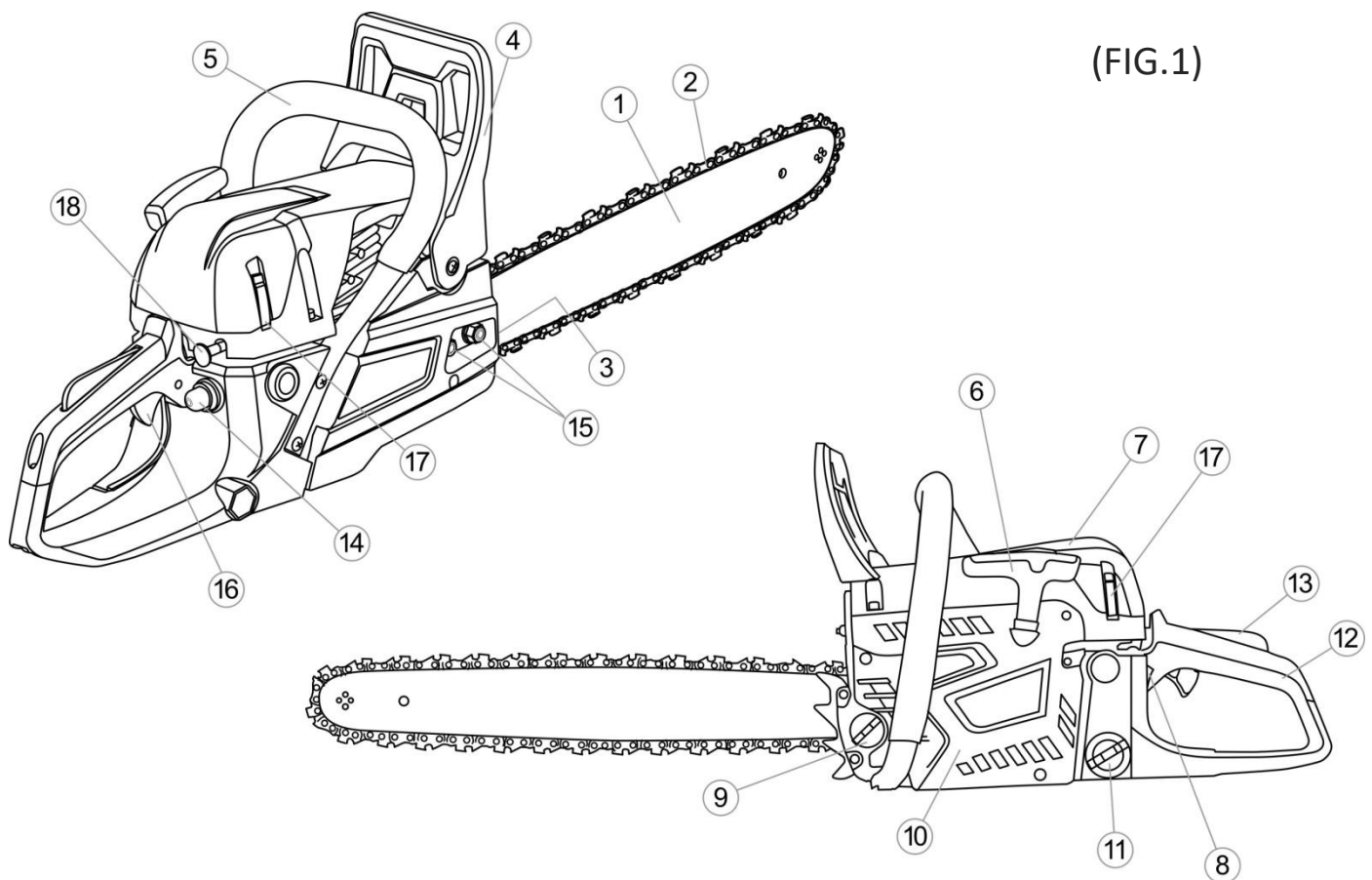
SYMBOLS

	Warning symbol.
	Read and refer to these operating instructions.
	Wear safety equipment that includes protective helmet, hearing protection and protective goggles.
	Value of sound emission according to European Directive 2000/14/EC.
	The contact of the end of the bar with any object must be avoided.
	Do not operate the tool with one hand. Always hold it with both hands.
	Wear protection gloves.

	Wear anti slippery footwear.
	Setting the chain tension.
	Fuel filler (on fuel tank cap).
	Oil filler (on oil tank cap).
	Choke knob.

YOUR PRODUCT

DESCRIPTION(FIG.1)

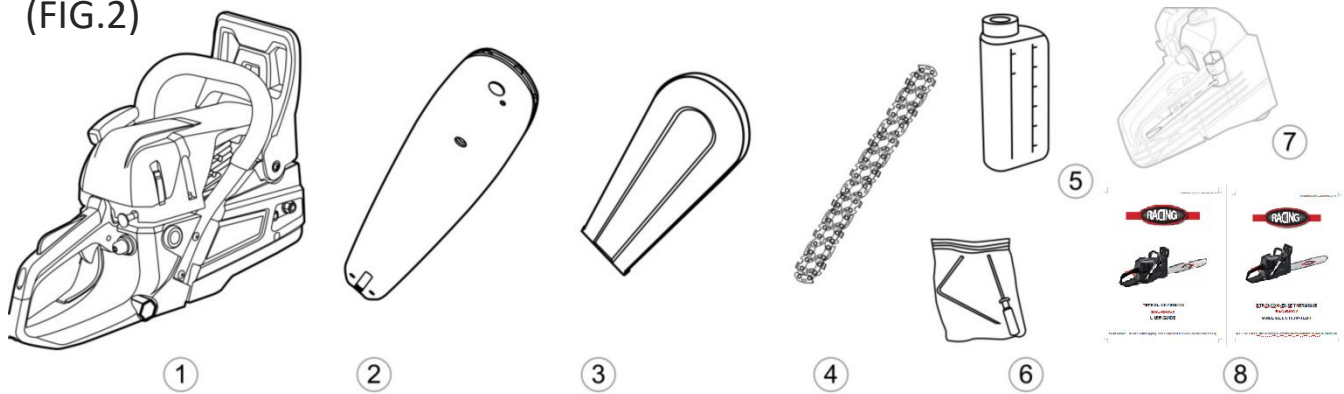


(FIG.1)

- | | | |
|--------------------------|---------------------|---------------------------|
| 1. Guide bar | 7. Air filter cover | 13. Throttle lock |
| 2. Chain | 8. Switch on/off | 14. Primer |
| 3. Chain tensioner screw | 9. Oil tank cap | 15. Bar cover nut |
| 4. Chain brake | 10. Starter cover | 16. Engine switch |
| 5. Front handle | 11. Fuel tank cap | 17. Air filter cover lock |
| 6. Starter handle | 12. Back handle | 18. Air flap lever |

SCOPE OF THE DELIVERY(FIG.2)

(FIG.2)



1. Gasoline chain saw (machine and cover)
2. Guide Bar
3. Guide bar scabbard
4. Saw chain

5. Container
6. Kit of tools
7. Plug wrench
8. User manual with warranty card

TECHNICAL DATA

Model	RAC4540CS
Type of engine	1E43F (single cylinder, air cooled 2-stroke petrol engine)
Fuel Tank Volume	550cm ³
Ratio	40:1
Oil tank volume	260cm ³
Idle speed of the engine	3000/min
Clutch speed	4800/min
Maximum power	1.7kW
Displacement	45cm ³
Maximum engine speed	10000/min
Maximum chain speed	21m/s
Maximum engine power speed	8000/min
Weight (empty tank, without accessories)	Max. 6.3 kg
Guide length	400mm (16")
Cutting length	360mm
Chain pitch	8.255mm (0.325")
Gauge of chain	1,47mm (0,058")
Type of chain and guide bar	Chain HY-JL9D-0.058*64 16" Guide bar ZL-16-64-5810P, 16"
Sprocket (number of teeth x pitch)	7 teeth*8.255
Carburettor	HuaLong, MC16A10 RuiXing, H142A Stable, MP16
Spark plug	TORCH / L7RTC
Sound Pressure level at operation position	LpA=104.9dB(A) K=3dB(A)
Sound Power level	LwA=111.8dB(A) K=3dB(A)
Guaranteed Sound power level	LwA : 113dB(A) (2000/14/EC)
Value of vibration	Front handle 6.254 m/s ² K=1.5 m/s ² Rear handle: 6.960 m/s ² K=1.5m/s ²

ASSEMBLY

Before you start up your chainsaw for the first time you must assemble the bar and chain, adjust the chain, fill the fuel tank with fuel and add oil to lubricate the chain.

WARNING! Do not START the chain saw until it is completely set up for use.

Read this manual carefully before using the machine. Pay particular attention to safety precautions. This manual is a reference and instruction manual and provides general information on the assembly, operation and maintenance of the chainsaw.

SPIKED BUMPER

1. Remove the protective cover.
2. Place the spiked bumper on its location.
3. Secure the spiked bumper with the two bolts provided.



DRIVE BAR AND SAW CHAIN ASSEMBLE

WARNING!

Always wear protective gloves when working with the chain.

1. Make sure that the device is turned off. Place the saw on a flat surface.
2. Move the chain brake shield to the operating position by pulling the lever toward you. Make sure the chain rotates around the bar (fig. 3).
3. Unscrew the two nuts (A) securing the protective cover. Remove the protective cover (B) (fig. 4).

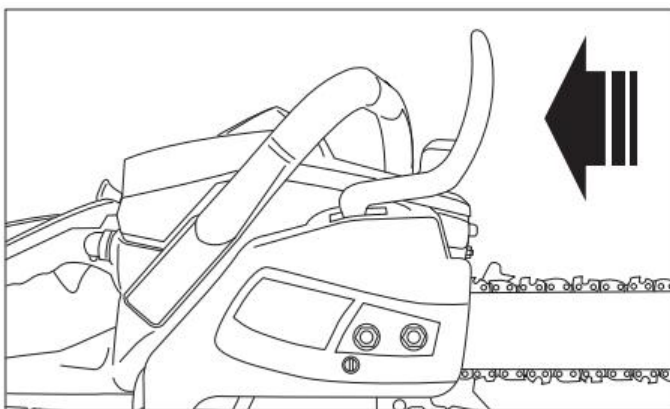


Fig. 3

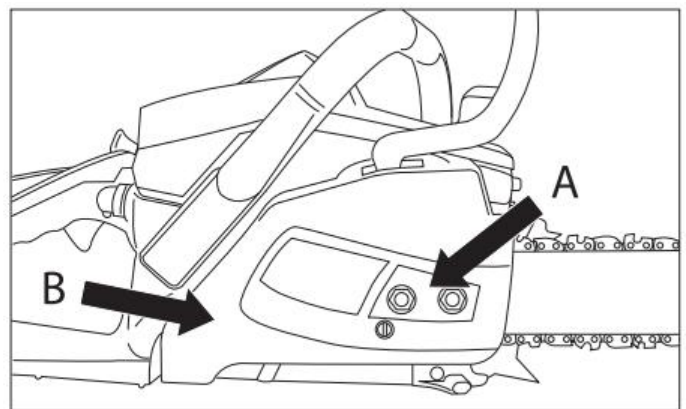


Fig.4

4. Install the bar so that the bar slot aligns with both bolts (C) (fig. 5).
5. Spread the chain in a circle with the cutting edges (D) aligned with the markings on the guide bar (fig. 6).

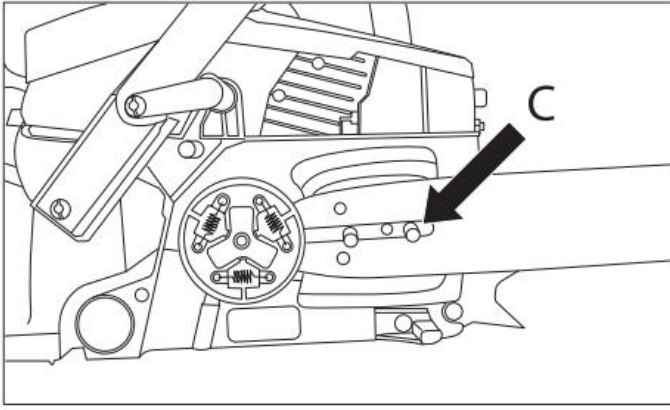


Fig. 5

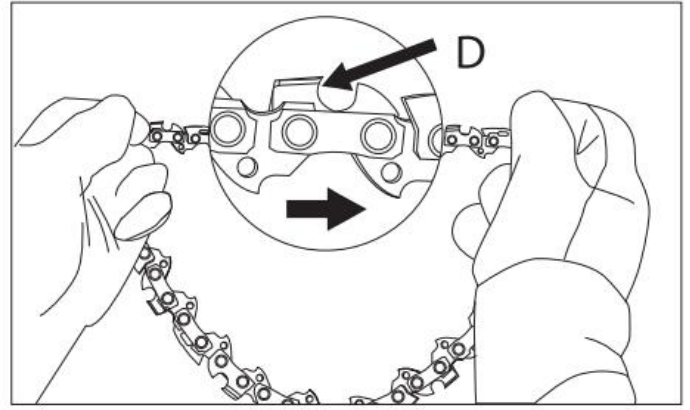


Fig. 6

6. Run the chain behind the drive chain wheel (E). Check if the chain links are well positioned between the teeth of the chain wheel (Fig. 7).
7. Insert the links into the bar groove (F) (Fig. 7).
8. Rotate the chain to make sure the chain teeth are engaging the teeth of the chain wheel.
9. Replace the protection cover so that the bolts fit into the holes and the chain tensioning pin fits into the lower hole in the bar (fig. 8).

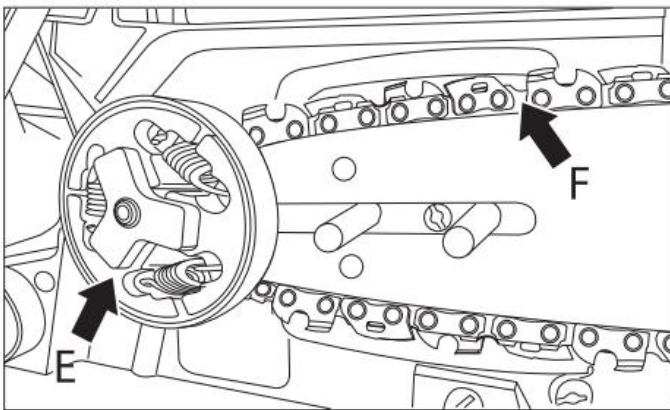


Fig. 7

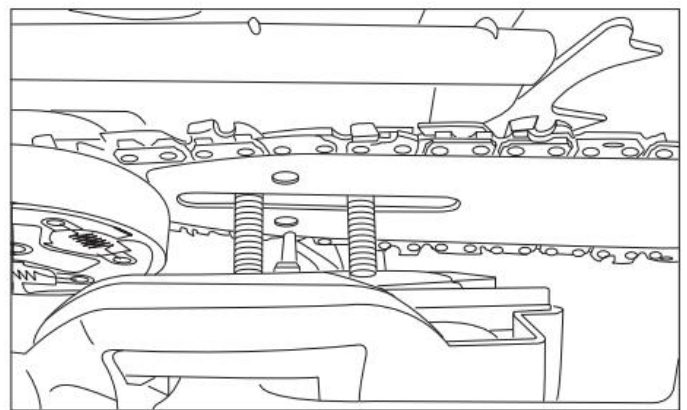


Fig. 8

10. Install both nuts, tighten them by hand, and then follow the instructions for adjusting the chain tension. When the chain has reached the correct tension, tighten the nuts completely.

CHAIN TENSION ADJUSTMENT



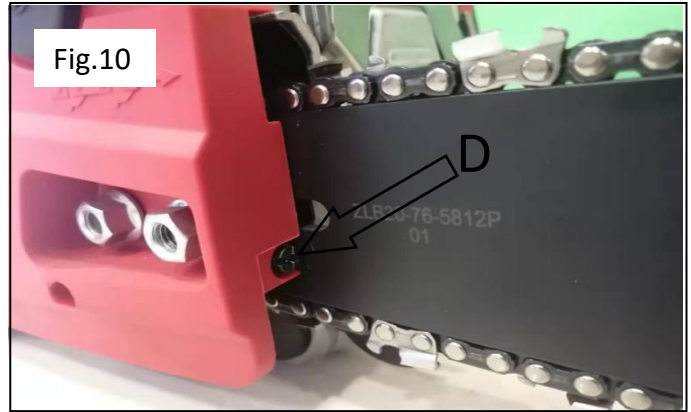
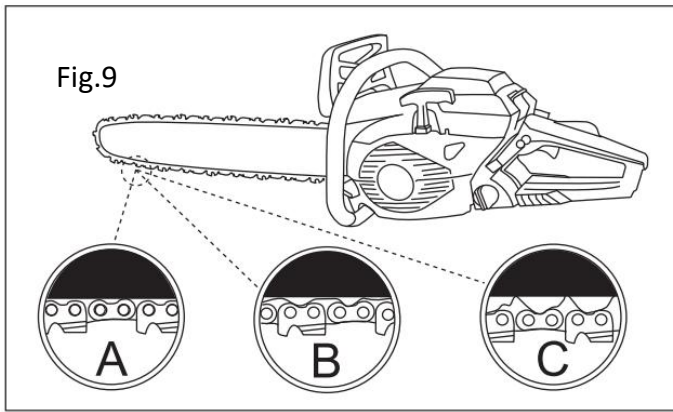
WARNING! Always wear protective gloves when working with the chain.

Proper chain tension is extremely important and should be checked both before starting and periodically during operation. Taking the time to adjust the chain will improve your performance and extend the life of your saw.



WARNING! A new chain will sag quickly and require tensioning after 5 to 8 cuts. This is common with new chains and the tensioning interval increases over time.

The mechanism will wear much faster if the chain is too loose or too tight. Look at fig. 9, which shows the correct tension for a cold chain (A), a warm chain (B), and a chain whose tension needs to be adjusted (C).



CHAIN TENSION ADJUSTING PROCEDURE

1. Loosen the nuts (on the protective cover) and turn the adjusting screw (D) clockwise to tighten the chain. Turn the adjusting screw (D) counterclockwise to decrease chain tension. Make sure the chain is all the way around the bar (fig. 10).
2. After adjusting the chain, tighten the nuts securing the bar (protective cap together with the brake shield) firmly. The chain is considered properly tensioned if you can move it over the bar by hand with little effort. The chain should fit well on the underside of the saw blade and be pulled by hand away from the blade by about 2-4 mm.

NOTE: If the chain has difficulty moving on the bar or stops, it is overtightened. Loosen the tension.

CHECKING THE CHAIN BRAKE

Your chain saw has a chain brake that reduces the chance of injury if the saw bounces. The safety device is triggered when pressure is applied to the brake guard. When the operator's hand strikes the shield, the chain stops sharply.



WARNING! The chain brake reduces the chance of injury from chain saw bounce, but does not provide protection if the unit is operated carelessly. Check that the chain brake is in good working order before starting work and periodically while working with the chainsaw.

The chain brake has two positions:

1. The brake is off (the chain can move) when the brake shield is pulled back (A) (fig. 11).
2. The brake is on (the chain cannot move) with the brake shield pointing forward (B). In this case, the chain should not move on the bar (fig. 11).

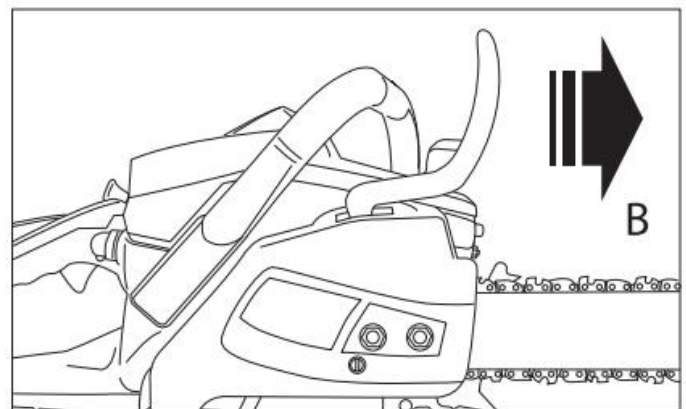
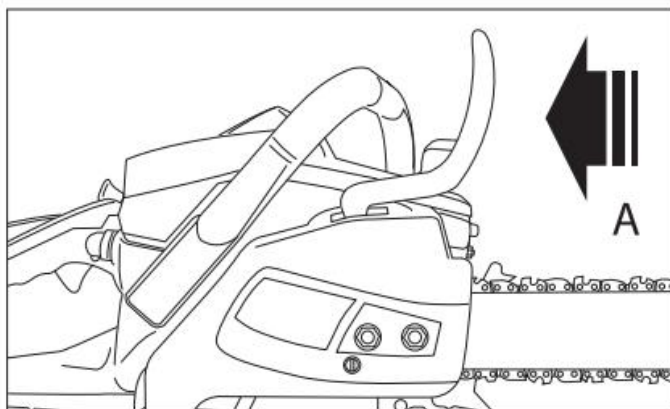


fig. 11

To check the chain brake:

1. Place the saw on a level surface and turn off the chain brake. The chain should not come into contact with anything.
2. Start the chainsaw by pressing the throttle lock key and the throttle key.
3. Press the chain brake switch. The chain should stop quickly. Release the throttle key.

⚠ WARNING! The brake shield must be in good condition and must make a distinctive click when moving from one position to another. Do not use the unit if the brake shield cannot be moved to one of the positions or if the chain does not stop when the brake is applied. Take the unit to a service center for repair.

FILLING THE OIL TANK AND FUEL TANK

TO FILL THE OIL TANK

⚠ WARNING! Never use used oil! Waste oil is harmful to the environment and may result in damage. Chain saw oil should be used to lubricate the saw chain and bar. Use oil that contains additives to reduce friction and wear and to prevent resin build-up on the bar and chain.

⚠ WARNING! Before filling the oil tank, make sure that the chainsaw is turned off.

1. Be sure to clean the surface around the oil tank cap to prevent dirt from getting inside.
2. Unscrew the oil tank cap and pour in the chain saw oil (260 ml tank capacity).
3. Screw the oil tank cap back on.
4. Before you start, check the oil supply: switch on the chainsaw and hold it over suitable bedding. If it is sufficiently lubricated, a light trail of dripping oil will form (fig. 12).

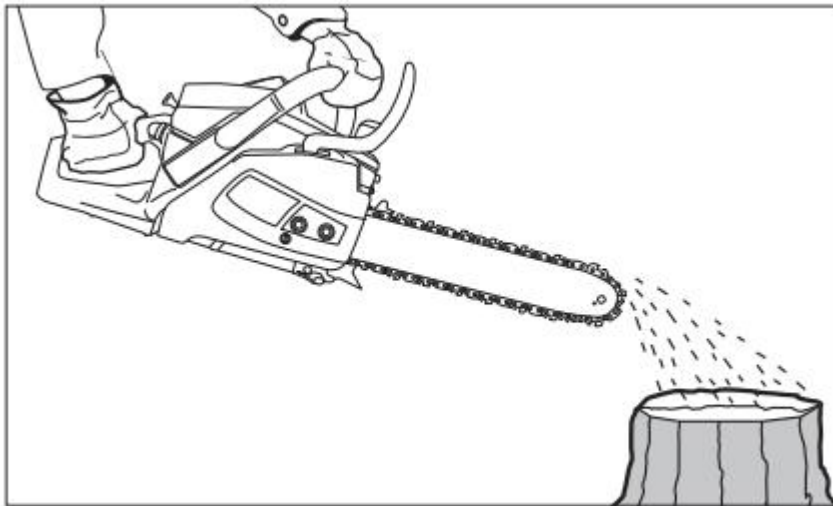


fig. 12

⚠ WARNING! Always check the oil level. Do not operate the chain saw if there is insufficient oil to lubricate the chain.

Proper lubrication is essential to reduce chain and bar friction. Operating a chain saw with insufficient lubrication reduces performance and service life and causes fast chain and bar wear due to overheating. This chainsaw is equipped with an automatic lubrication system that provides the necessary amount of lubrication to the bar and chain. As the engine speed increases so does the oil supply to the bar.

TO FILL THE FUEL TANK

WARNING: When filling the tank:

The chainsaw must always be stopped and cooled.

Never smoke during refueling. It must not have flames or sparks near the fuel.

Before refueling, allow the chainsaw to cool completely. Do not attempt to refuel when the engine is hot. If fuel has been spilled, immediately stop refueling and do not start the engine. Clean up the spill and fill the machine in another location

Never fill the fuel tank to the flange; there is a risk of overflow.

Do not refuel in a closed and unventilated area.

The fuel used for this tool is a mixture of unleaded gasoline and registered engine lubricant. When mixing gasoline with oil, use only gasoline that does not contain ethanol or methanol.

Unleaded gasoline is a quality gasoline type. This will help to avoid damaging the fuel lines of the engine and other engine parts.

The recommended mixing ratio is 40:1 (make sure the mixing ratio is correct before filling the product).

a. Mixing

- Mix in a clean, empty container (supplied).
- Pour the oil into the container.
- Pour the fuel into the tank. Mix the mixture long enough (more than one minute) to get a good combination.

b. Filling the fuel tank

- Unscrew the fuel tank cap and remove it.
- Fill the tank slowly with the mixture. Do not exceed the maximum capacity (fill to 80% of its capacity preferably).
- Replace the cap on the fuel tank and tighten it
- Wipe any spillage around the unit if necessary

Note: To avoid damage and accidents, DO NOT USE OTHER MIXTURES AND OTHER TYPES OF OIL / PETROL

c. Storage of fuel

The fuel must be kept in a clean and safe container and always closed.

If you are not using the product for a long time, remove the fuel mixture and add it to a container.

Do not leave the fuel for a long time in the product. The fuel may clog the carburetor and the engine will not operate properly.

d. Disposal of fuel

When the fuel is no longer used or worn, please dispose of it in an authorized location. Check local laws regarding disposal of fuels.

OPERATION

Before using the chainsaw, inspect the work area. This must be cleared. Remove any branches, obstacles and other items that may cause damage during cutting.

The unit should always be filled with fuel and be usable. Check the level of filling and refill when necessary.

STARTING THE ENGINE

1. Engage the chain brake (see chapter "CHAIN BRAKE")
2. Hold the front handle with one hand and take the chainsaw to the ground. Hold the rear handle by stepping on it.
3. Set the ignition switch to the I position (ON).
4. Press the primer about 4-5 times until fuel appears in the primer.
5. Pull the air damper lever toward you until it locks, the air damper will close.
6. Slowly pull the starter grip until you feel resistance, then pull the cable with a steady movement to a distance of no more than 50-60 cm. Repeat the procedure several times until the engine starts.
7. Press the throttle lock key and the throttle key, the carburettor air damper will open automatically, the damper lever will return to its original position.

WARNING!

Do not allow the cable to be pulled all the way out before the starter reel has stopped. This will cause the starter motor to break and is not covered by the warranty.

TO STOP THE ENGINE

1. Release the throttle lock key and throttle key to allow the engine to idle.
2. To stop the engine, move the switch to the O position (OFF).

NOTE: To stop the engine in an emergency, engage the chain brake and move the switch to the “O” position.

CHAIN BRAKE

Starting shall always be done with the chain brake activated. The chain brake is a device that automatically stops the chain in case a backward movement occurs, causing the saw to jump. Normally, the brake is automatically activated by the inertia force.

It is also manually tightened by pushing the brake lever down and forward.

When the brake is running, a yellow sign comes out from the base of the brake lever.

To release the brake, pull the brake lever up until it clicks into place.

When the brake is in operation, release the trigger to slow down the engine speed. Continuous use when the brake is running causes the clutch to heat up and can cause problems.

When checking the machine before using it, check the operating condition of the brake by performing the following operations:

- Start the engine and grasp the handle firmly with both hands.
- While using the trigger to keep the chain in operation, push the brake lever down with the back of the left hand.
- When the brake is running and the chain is stopped, remove the hand from the throttle.
- Loosen the brake.

RELEASE OF THE CHAIN BRAKE

To use the chain saw again, the chain brake must be released. This must be done machine off and cooled. Pull the shield until it returns to its original position.

CHECKING THE LUBRICATION OF THE CHAIN

- Before checking the oil, make sure that the bar and the chain are in place.
- Once the engine is started, turns it at medium speed and checks that the chain oil is sprayed and traces off the ground.
- The oil flow of the chain is adjustable to obtain the proper flow. Insert a screwdriver on the clutch side.
- Turn the adjuster to obtain the correct flow rate for the job.
- The chainsaw must essentially consume the contents of the oil tank between each full of fuel. Do not forget to fill the oil tank when filling the machine with fuel.

RELEASE OF A JAMMED SAW

If the saw gets stuck during cutting, the operators should:

- Saw the saw and attach it securely to the cutting foot of the shaft (ie trunk side) or has a separate chord from the tool
- Pull the saw of the cluster while the branch is lifted, if necessary,
- If necessary, use a hand saw or a second chainsaw to release the chain saw.

CUTTING WORK

The tool should only be used to cut trees. Do not use it for other applications.

Do not attempt to remove the chainsaw when it is stuck during operation. Stop the machine and remove the wedge blade with a wedge.

Stick your feet well, keep a good balance and do not climb on the tree trunk.

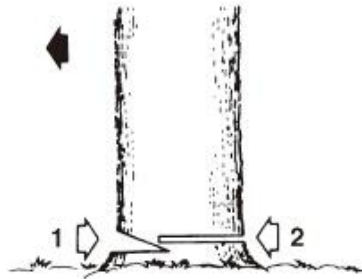
Try not to work on a slope. However, if you have to work on a slope, always stand higher than the tree trunk.

Before bending a branch or trunk in bending, observe the direction of bending and finish the cut opposite the bending side to prevent the chain guide from getting stuck in the cut.

FELLING OF TREES

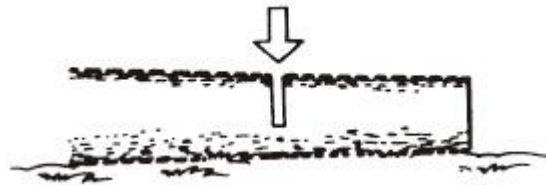
Examine the work area and estimate where the tree will fall. Start the machine as described above. Start by making a notch in the direction of fall chosen.

When the tree falls, shout or make a beep to alert people in the vicinity. When the shaft falls, move away from the cutting area.



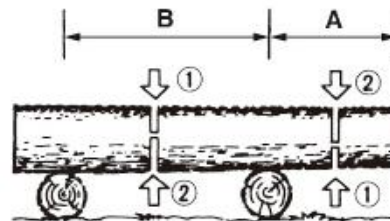
a. Trunk on the ground

Cut half of the trunk, turn it over and finish the cut on the other side.



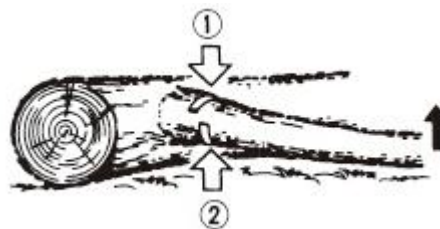
b. Trunk in elevation

Begin by cutting a first part from below and then from above. Then, on the second part, repeat this operation.



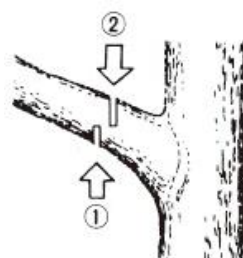
c. Pruning of a felled tree

Observe first the direction of flexion of the branch. Make a first notch on the side in flexion and finish the cut on the opposite side.



d. Pruning a tree

Begin pruning by nicking the tree from below and then finish at the top.



MAINTENANCE AND STORAGE

MAINTENANCE

Before any maintenance work, the machine must be switched off and completely cooled. Perform the maintenance work according to the instructions below and perform them regularly. A clean, well-maintained machine increases its standard of living and efficiency. On the contrary, a machine maintained can cause damage, accidents and render the tool inoperable in the short term. Any other maintenance, modification or repair work must be carried out by a qualified professional. Do not immerse the tool in water or any other liquid.

a. After each use

- Clean the engine block louvers with a blower.
- Check the chain brake if it is working properly.
- Clean the plastic parts before wiping with a damp cloth.
- Check the use of the chain guide
- Check the auto lubrication circuit if it is obstructed or not.
- Check sprocket condition
- Clean the cylinder fins with a compressor

b. Cleaning the air filter

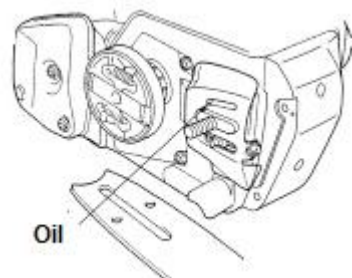
Use a compressor to blow dust and chips.

To clean the filter foam: open the air filter, remove the foam. Clean this foam with gasoline, wring out and dry. Replace the foam in the air filter and reassemble as described in the diagram.

After 10 uses, replace the foam with a new one.

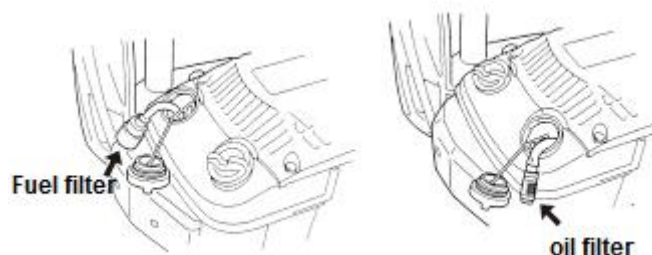
c. Cleaning the oil inlet

Disassemble the chain guide and the chain hood and check that the oil supply is clean. If dirty, remove dirt with a clean compressor or cloth.



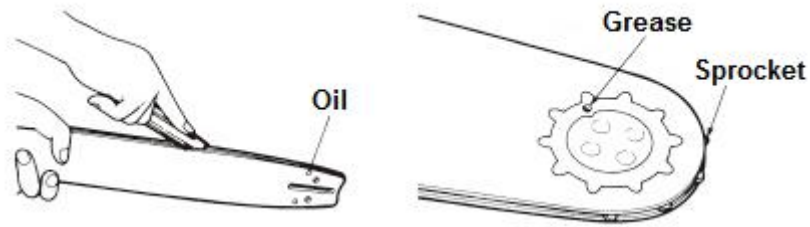
d. Cleaning the oil filter and fuel filter

Clean these items regularly. Remove them from the tanks using clamps. Clean them with gasoline and then put them back in place afterwards

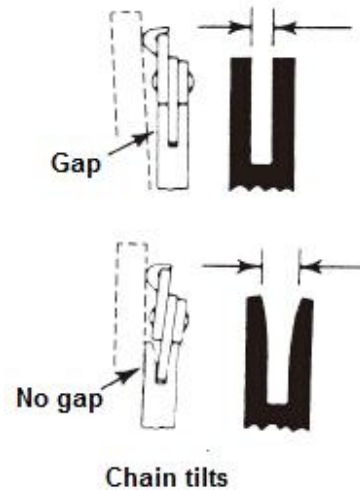


e. Guide bar

Cleaning: Remove bar guide to remove dirt from grooves and oil inlet. Regularly grease the pinion.

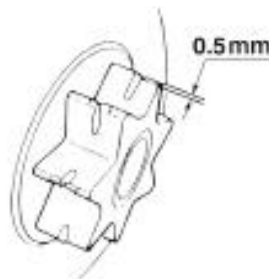


Check: Reverse the bar from time to time to avoid the effects of wear. The bar rail should always be in place. Use a ruler to observe it. If a gap is observed between them, then the rail is normal. Otherwise, the rail is worn out. A bar must be corrected or replaced.



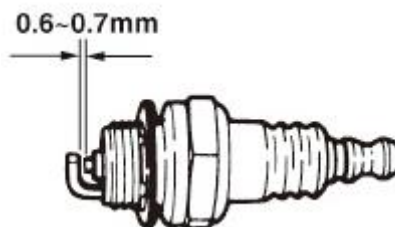
f. Sprocket

Check the sprocket on signs of wear. If wearing is important, replace it with a new one. Do not install a chain on a worn or damaged sprocket. Do not install a worn chain on a pinion.



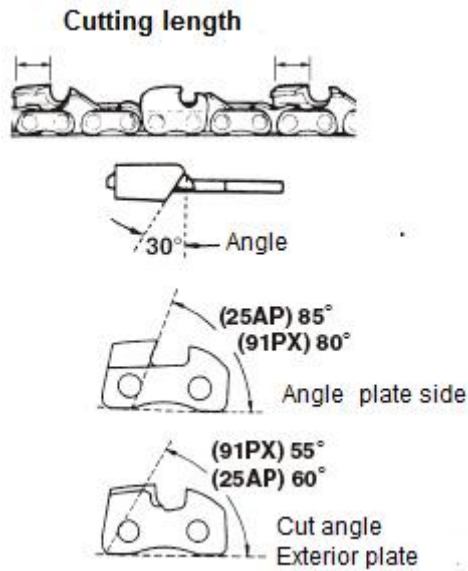
g. Spark plug

Clean the electrodes with a wire brush and set the gap to 0.6mm if necessary.



h. Chain saw

Check each time the cutter and cutting angles are as shown below.



i. Sharpening of the chain

For best performance, we strongly recommend that you periodically sharpen the chain. The chain can either be sharpened by a professional or by yourself by providing you with a sharpening guide (make sure you know how to use it).

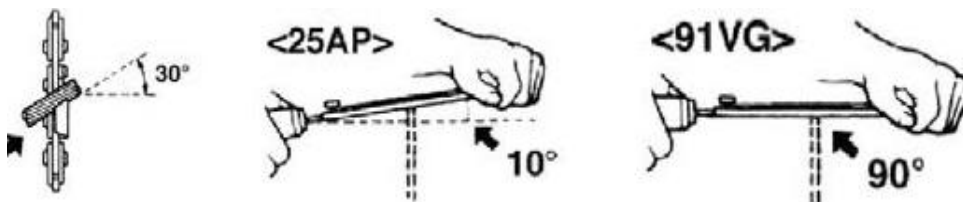
The chain must be sharpened when:

- Wood chips have become powder
- The cut is not straight
- Vibration increase
- Fuel consumption has increased
- Sharpening method:

The chain saw must be switched off and locked before sharpening. Use a round file or sharpening device (see in store).

Place the file on the tooth and push straight. Shift with the same movement.

After sharpening all teeth, check if the teeth are sharp.



STORAGE

When storing, the tool must be turned off, cooled, emptied of fuel and thoroughly cleaned.

Store the tool in a dry, clean place, preferably in its packaging, and out of the reach of children. Store all accessories and other items with the tool

DECLARATION OF CONFORMITY



BUILDER SAS

ZI, 32 rue Aristide Bergès – 31270 Cugnaux - France

Declares that the machinery designated below:

**Petrol chainsaw
RAC4540CS**

Serial number: 20241118461-20241118660

**Complies with the provisions of the Directive "machinery" 2006/42/EC and regulations
National transposing it;**

Also complies with the following European directives:

EMC Directive 2014/30/EU

Emission directive (EU) 2016/1628 & 2018/989/EU

RoHS Directive (EU)2015/863 amending 2011/65/EU

Noise emission Directive 2000/14/EC Annex V and Directive 2005/88/EC

Guarantee sound power level: 113 dB(A)

Measured sound pressure level at working position: 104.9 dB(A) $K_{PA}=3,0dB(A)$

Also complies with European standards, national standards and provisions following techniques:

EN ISO 11681-1: 2022

EN ISO 14982: 2009

EC-type certification: **No. M6A 091651 0021 Rev. 03**

TÜV SÜD Product Service GmbH is Notified Body according to Council Directive 2006/42/EC relating to machinery, notified by publication in the Official Journal of the EC with identification No.0123.

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

Responsible of the Technical file: Mr Olivier Patriaca

Cugnaux, 18/09/2024

Philippe MARIE / PDG

WARRANTY

The manufacturer guarantees the product against defects in material and workmanship for a period of 2 years from the date of the original purchase. The warranty only applies if the product is for household use. The warranty does not cover breakdowns due to normal wear and tear.

The manufacturer agrees to replace parts identified as defective by the designated distributor. The manufacturer does not accept responsibility for the replacement of the machine, in whole or in part, and/or ensuing damage.

The warranty does not cover breakdowns due to:

- Insufficient maintenance.
- Abnormal assembly, adjustment or operations of the product.
- Parts subject to normal wear and tear.

The warranty does not extend to:

- Shipping and packaging costs.
- Using the tool for a purpose other than that for which it was designed.
- The use and maintenance of the machine done in a manner not described in the user manual.

Due to our policy of continuous product improvement, we reserve the right to alter or change specifications without notice. Consequently, the product may be different from the information contained therein, but a modification will be undertaken without notice if it is recognized as an improvement of the preceding characteristic.

READ THE MANUAL CAREFULLY BEFORE USING THE MACHINE.

When ordering spare parts, please indicate the part number or code, you can find this in the spare parts list in this manual. Keep the purchase receipt; without it, the warranty is invalid. To help you with your product, we invite you to contact us by phone or via our website:

+33 (0)9.70.75.30.30

<https://services.swap-europe.com/contact>

You must create a "ticket" via the web platform.

- Register or create your account.
- Indicate the reference of the tool.
- Choose the subject of your request.
- Describe your problem.
- Attach these files: invoice or sales receipt, photo of the identification plate (serial number), photo of the part you need (for example: pins on the transformer plug which are broken).



PRODUCT FAILURE

WHAT TO DO IF MY MACHINE BREAKS DOWN?

If you bought your product in a store:

- Empty the fuel tank.
- Make sure that your machine is complete with all accessories supplied, and clean! If this is not the case, the repairer will refuse the machine.
- Go to the store with the complete machine and with the receipt or invoice.

If you bought your product on a website:

- Empty the fuel tank.
- Make sure that your machine is complete with all accessories supplied, and clean! If this is not the case, the repairer will refuse the machine.
- Create a SWAP-Europe service ticket on the site: <https://services.swap-europe.com> When making the request on SWAP-Europe, you must attach the invoice and the photo of the nameplate (serial number).

Contact the repair station to make sure it is available before dropping off the machine.

Go to the repair station with the complete machine packed, accompanied by the purchase invoice and the station support sheet downloadable after the service request is completed on the SWAP-Europe site

For machines with engine failure from manufacturers BRIGGS & STRATTON, HONDA and RATO, please refer to the following instructions.

Repairs will be done by approved engine manufacturers of these manufacturers, see their site:

- <http://www.briggsandstratton.com/eu/fr>
- <http://www.honda-engines-eu.com/fr/service-network-page;jsessionId=5EE8456CF39CD572AA2AEEDFD290CDAE>
- <https://www.rato-europe.com/it/service-network>

Please keep your original packaging to allow for after-sales service returns or pack your machine with a similar cardboard box of the same dimensions.

For any question concerning our after-sales service you can make a request on our website <https://services.swap-europe.com>

Our hotline remains available at +33 (9) 70 75 30 30.



WARRANTY EXCLUSIONS

THE WARRANTY DOES NOT COVER:

- Start-up and setting up of the product.
- Damage resulting from normal wear and tear of the product.
- Damage resulting from improper use of the product.
- Damage resulting from assembly or start-up not in accordance with the user manual.
- Breakdowns related to carburetion beyond 90 days and fouling of carburetors.
- Periodic and standard maintenance events.
- Actions of modification and dismantling that directly void the warranty.
- Products whose original authentication marking (brand, serial number) has been degraded, altered or withdrawn.
- Replacement of consumables.
- The use of non-original parts.
- Breakage of parts following impacts or projections.
- Accessories breakdowns.
- Defects and their consequences linked to any external cause.
- Loss of components and loss due to insufficient screwing.
- Cutting components and any damage related to the loosening of parts.
- Overload or overheating.
- Poor power supply quality: faulty voltage, voltage error, etc.
- Damages resulting from the deprivation of enjoyment of the product during the time necessary for repairs and more generally the costs related to the immobilization of the product.
- The costs of a second opinion established by a third party following an estimate by a SWAP-Europe repair station
- The use of a product which would show a defect or a breakage which was not the subject of an immediate report and/or repair with the services of SWAP-Europe.
- Deterioration linked to transport and storage*.
- Launchers beyond 90 days.
- Oil, petrol, grease.
- Damages related to the use of non-compliant fuels or lubricants.

* In accordance with transport legislation, damage related to transport must be declared to carriers within 48 hours maximum after observation by registered letter with acknowledgement of receipt.
This document is a supplement to your notice, a non-exhaustive list.

Attention: all orders must be checked in the presence of the delivery person. In case of refusal by the delivery person, it you must simply refuse the delivery and notify your refusal.

Reminder: the reserves do not exclude the notification by registered letter with acknowledgement within 72 hours.

Information: Thermal devices must be wintered each season (service available on the SWAP-Europe site). Batteries must be charged before being stored.



BUILDER SAS
32 rue Aristide Bergès - Z.I. du Casque - 31270 Cugnaux - France
MADE IN PRC