



Keeping Britain green and pleasant since 1920

QCP 45cm 45cc Petrol Chainsaw 310099



Instruction Manual



IMPORTANT! Please read these instructions fully before starting assembly.

These instructions contain important information that will help you get the best from your product, ensuring it is assembled correctly and safely. If you need help or have damaged or missing parts, call the Customer Helpline on **01904 727500**.

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General Safety Warnings

Safety Warnings



WARNING! Read all safety warnings and instructions.

Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.



WARNING! Read all safety warnings and instructions designated by the  symbol.

Save all warnings and instructions for future reference.

- Always ensure anyone intending to operate this machine is fully conversant with the contents of this instruction manual prior to assembling, maintaining or operating the machine.
- Perform assembly operations as described in this manual. Failure to observe this warning may lead to serious injury, death, or damage to the machine.
- Always take care when removing the packaging, to prevent damage to you or to the machine.

IMPORTANT! Before assembling the machine, check all the parts indicated in the manual are in the box. Inspect all the parts for signs of damage. Do not assemble the machine if you observe any damaged components.

General safety

The chain is designed exclusively for sawing wood. You may only fell trees if you have received the appropriate training. The manufacturer cannot be held liable for damage caused by improper or incorrect usage.

Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for the equivalent purposes.



- Keep this operating and maintenance manual in a safe place for reference at a later date.
- Read the instructions carefully. Be familiar with the controls and the proper use of the equipment.
- Never allow children or people unfamiliar with these instructions to use the chainsaw. Local regulations can restrict the age of the operator.
- Never saw while people, especially children or pets, are nearby. Keep in mind that the user is responsible for accidents or hazards occurring to other people or their property.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

- Do not touch the chain.

Preparation



WARNING!

- DO NOT operate a chainsaw with one hand! Serious injury to the operator, helpers, bystanders, or any combination of these persons, may result from one-handed operation. A chainsaw is intended for two-handed use only.
- Do NOT use the saw if you are tired, ill or under the influence of alcohol and/or drugs.
- Use Personal Protective Equipment (PPE), such as safety footwear, snug-fitting clothing, and protective gloves, as well as eye, hearing and head protection devices.
- Use caution when handling fuel. Move the chainsaw at least 10 feet (3m) away from the fueling point before starting the engine.
- DO NOT allow other persons to be near when starting or cutting with the chainsaw. Keep bystanders and animals out of the work area.
- DO NOT start cutting until you have a clear work area, secure footing, and a planned retreat path from falling trees or branches.

Operation



WARNING!

- Keep all parts of your body away from the saw's chain when the engine is running.
 - Before you start the engine, make sure that the chain is not in contact with anything.
 - Carry the chainsaw with the engine stopped, the chain bar and saw chain facing rearwards, and with the exhaust away from your body.
 - NEVER use a chainsaw which is damaged, incorrectly set, incomplete or loosely assembled. Make sure that the chain rotation stops when the chain brake is applied.
 - Shut off the engine before setting the chainsaw down.
 - Use extreme caution when cutting small bushes and saplings; slender material may catch in the saw chain and be whipped towards you or pull you off balance.
 - When cutting a limb that is under tension, be alert for spring back so that you will not be struck when the tension in the wood fibres is released.
 - Keep the handles dry, clean, and free of oil or fuel mixture.
 - Operate the chainsaw only in well-ventilated areas.
 - DO NOT operate a chainsaw from up in a tree unless you have been specifically trained to do so.
- All chainsaw servicing, other than the items listed in the user manual safety and maintenance instructions, should be performed by competent chainsaw service personnel.
 - When transporting your chainsaw, use the appropriate chain bar cover.
 - DO NOT operate your chainsaw near or around flammable liquids or gases, whether inside or outdoors. An explosion and/or fire may result.
 - Do not fill the fuel tank, oil reservoir or lubricate whilst the engine of the chainsaw is running.
 - USE THE CORRECT TOOL: Cut wood ONLY. Do not use the chainsaw for purposes for which it was not intended. For example, do not use the chainsaw for cutting plastic, masonry or building materials.
 - The engine will create toxic exhaust fumes as soon as the engine is started. Never work in enclosed areas or in areas with poor ventilation.
- NOTE:** The chainsaw is designed for non-commercial, occasional use and for general work, such as stump grubbing, and cutting firewood, etc. It is not designed for lengthy use. If it is used for a lengthy period, the vibrations it causes in the hands of the user may result in circulation problems (white finger syndrome).
- The chain is designed exclusively for sawing wood. You may only fell trees if you have received the appropriate training. The manufacturer cannot be held liable for damage caused by improper or incorrect usage.

- Please note that our equipment has not been designed for use in commercial, trade or industrial applications. Our warranty will be voided if the machine is used in commercial, trade or industrial businesses or for the equivalent purposes.

Kickback

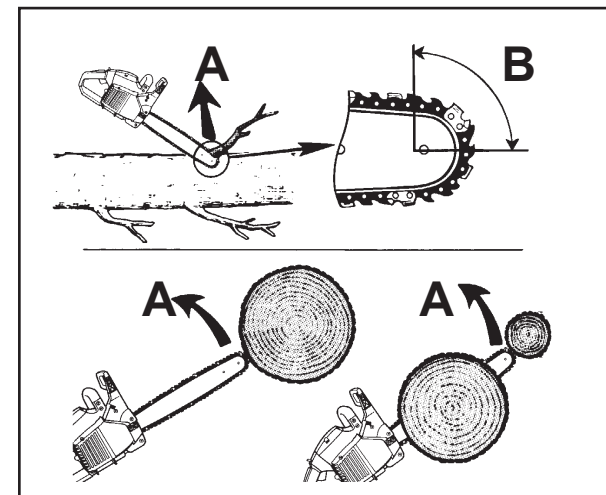
Kickback may occur when the nose or tip of the chain bar touches an object, or when the wood closes in and pinches the saw chain in the cut. If the bar tip contacts, it may cause an extremely fast reverse reaction, kicking the chain bar up and back towards the operator. Pinching the saw chain along the top of the chain bar may push the chain bar rapidly back towards the operator.

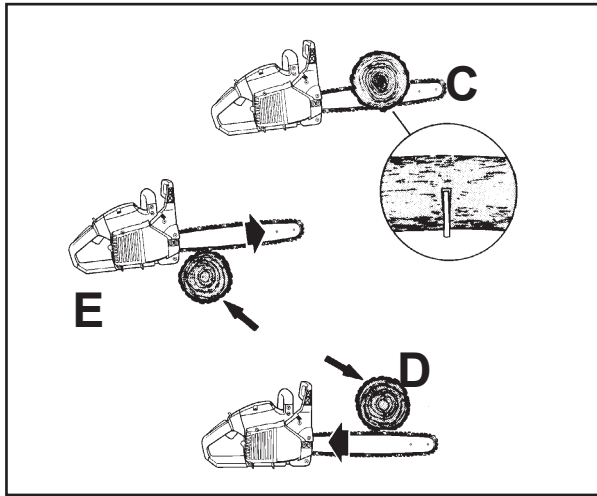
Either of these reactions may cause you to lose control of the saw, which could result in serious personal injury. Do not rely exclusively upon the safety devices built into your saw. As a chainsaw user, you should take several steps to keep your cutting jobs free from accident or injury.

NOTE: With a basic understanding of kickback, you can reduce or eliminate the element of surprise. Sudden, unexpected action contributes to accidents.

- Keep a good firm grip on the saw with both hands: the right hand on the rear handle, and the left hand on the front handle, when the engine is running. Use a firm grip with thumbs and fingers encircling the chainsaw handles. A firm grip will help you reduce kickback and maintain control of the saw. Never let go of the chainsaw.

- Make sure that the area in which you are cutting is free from obstructions. Do not let the nose of the chain bar contact a log, branch, or any other obstruction which could be hit while you are operating the saw.
- Cut at high engine speeds.
- Do not overreach or cut above shoulder height.
- Follow the manufacturer's sharpening and maintenance instructions for the saw chain.
- Only use replacement bars and chains specified by the manufacturer or the exact equivalent.
- PINCHING the saw chain along the **BOTTOM** of the cutting (chain) bar may **PULL** the saw forward away from the operator.
- PINCHING the saw chain along the **TOP** of the cutting (chain) bar may **PUSH** the chain bar rapidly back towards the operator.
- Any of these reactions may cause you to lose control of the saw, which could result in serious personal injury.





Beware of the following: Rotary recoil.

A = Recoil direction

B = Recoil reaction zone

Impact/jamming recoil and pulling reactions:

When cutting from under an object (see Pic. D) using the top of the chain, the object may pinch the chain and cause either a forward force on the chainsaw or a rearward force on the object (see Pic. C).

When cutting from the top surface of an object (Pic. E) using the bottom of the chain, the object may pinch the chain and cause either a rearward force on the chainsaw or a forward force on the object.

Maintenance and storage

- Keep all nuts, bolts and screws tight, to be sure the equipment is in safe working condition.
- Never store the equipment with petrol in the tank inside a building where fumes can reach an open flame or spark.
- Allow the engine to cool before storing in any enclosure.
- To reduce the fire hazard, keep the engine, silencer and petrol storage area free of hedge trimmings, leaves, or excessive grease.
- Replace worn or damaged parts for safety.
- If the fuel tank has to be drained, this should be done outdoors.

NOTE: Dispose of soiled maintenance material and operating materials at the appropriate collection point. Recycle packaging material, metal and plastics. Do not dispose of with domestic, household waste.

Intended Use

This machine may only be used outdoors for cutting wood and in combination with the original cutting chains. This machine is not designed for heavy-duty or commercial use.

Any use of the machine that deviates from its intended use, and is not included in these instructions, is considered unauthorised use and relieves the manufacturer from his or her legal liability.

Warning Symbols



Before any use, refer to the corresponding paragraph in the manual.



This symbol, before a safety comment, indicates a precaution, a warning or a danger. Ignoring this warning can lead to an accident for yourself or for others. To limit the risk of injury, fire, or electrocution, always apply the recommendations indicated.



Conforms to European standards.



The exhaust gas is poisonous and asphyxiating. If inhaled, it may even be lethal. Do not operate the engine in closed or poorly-ventilated places.



Petrol and petrol vapours are extremely flammable.



Do not touch to prevent burns.



Wear hearing protection and eye protection (PPE) when using the device.



Wear robust footwear when using the device.



Wear protective gloves when using the device.



Guaranteed sound power level data (115dB), in accordance with Directive 2000/14/EC.



Beware of kickback (recoil).



Avoid contact with the tip of the guide bar (chain return point). This will result in kickback of the chainsaw.



Do not hold the saw with one hand.



Hold the saw firmly with both hands. Place your right hand on the rear handle and your left hand on the front handle.



Do not start or use the equipment close to people (especially children) or animals. During operation, it is recommended that a minimum distance of 10 metres from other people is maintained.

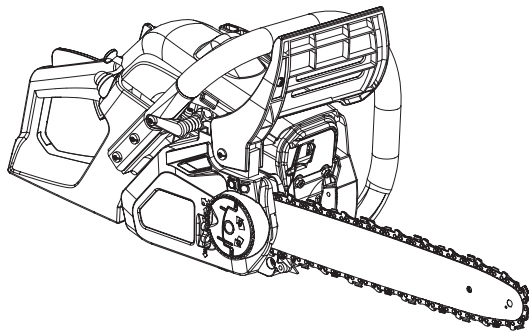
In The Box

Parts

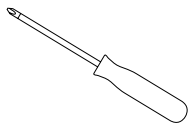
A. Chainsaw

Tools

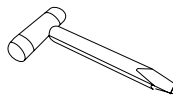
- B. Screwdriver
- C. Plug wrench
- D. Mixing bottle



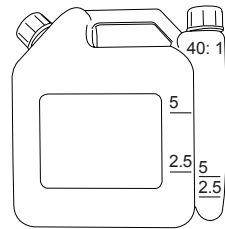
A



B



C



D

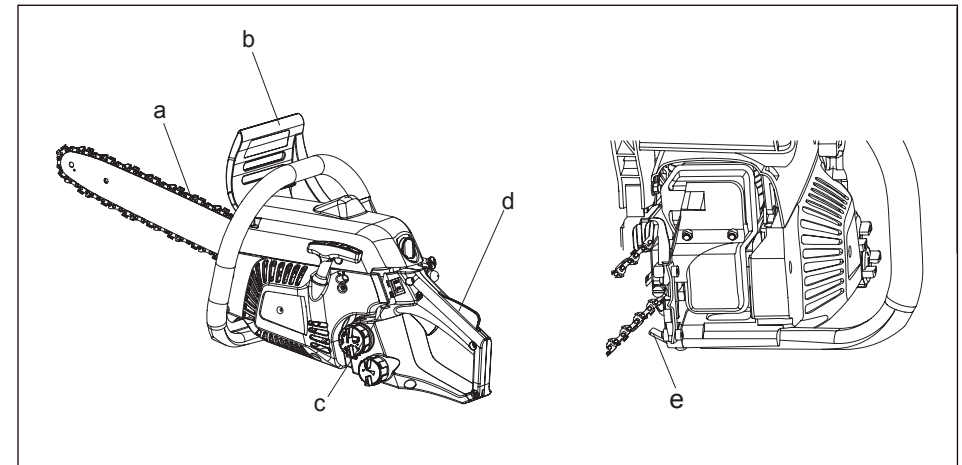
You will also need:

- 2-stroke engine oil according JASO FC classic, - unleaded petrol - special chainsaw oil

If there are any parts missing, please call the customer helpline on 01904 727500.

Preparing to Operate the Chainsaw

Safety features



- a. **LOW KICKBACK SAW CHAIN:** helps significantly reduce kickback, or the intensity of kickback, due to specially designed depth gauges and guard links.
- b i. **CHAIN BRAKE:** is a safety feature designed to reduce the possibility of injury due to kickback by stopping a moving saw chain in milliseconds. It is activated by the **CHAIN BRAKE** lever.
- b ii. **CHAIN BRAKE LEVER/HAND GUARD:** protects the operator's left hand in the event it slips off the front handle (while the saw is running) in the event of kick back.
- c. **STOP SWITCH:** immediately stops the engine when tripped. The stop switch must be pushed to the 'START' position to start or restart engine.
- d. **SAFETY TRIGGER LOCK:** prevents accidental acceleration of the engine. The throttle trigger cannot be squeezed unless the safety latch is de-pressed.
- e. **CHAIN CATCHER:** reduces the danger of injury in the event that the saw chain breaks or derails during operation. The chain catcher is designed to intercept a whipping chain.

NOTE: Study your saw and be familiar with its parts.

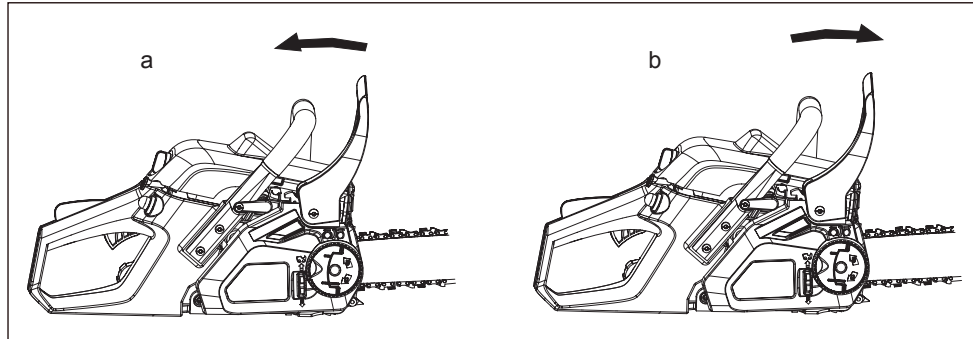
Step 1 - Chain brake mechanical test



WARNING!

The purpose of the chain brake is to reduce the possibility of injury due to kickback; however, it cannot provide the intended measure of protection if the saw is operated carelessly.

Always test the chain brake before using your saw and periodically while on the job.



Your chainsaw is equipped with a chain brake that reduces the possibility of injury due to kickback. The brake is activated if pressure is applied against the brake lever when, as in the event of kickback, the operator's hand strikes the lever. When the brake is actuated, chain movement stops abruptly.

Before starting, test the chain brake by pushing it forward until an audible click is heard.

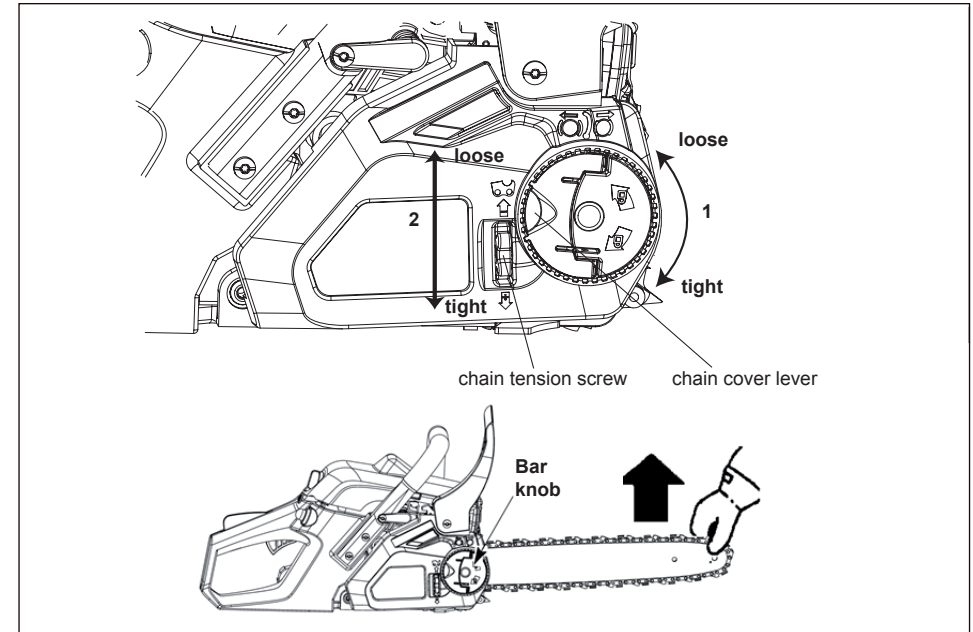
- The chain brake is **DISENGAGED** (chain can move by hand) when the **BRAKE LEVER IS PULLED BACK AND LOCKED**.
- The chain brake is **ENGAGED** (the chain is locked) when the brake lever is pushed forward. It should not be possible to move the chain by hand.



WARNING!

The brake lever should snap into both positions. If this is not the case, do not use your saw. Contact the helpline immediately on 01904 727500.

Step 2 - Adjust the chain tension



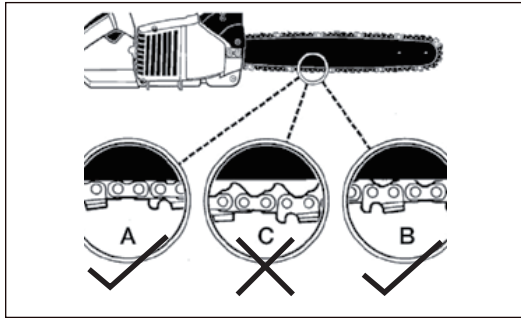
1a Pull the chain cover lever out, and slightly loosen the chain cover.

1b Take off the blade protector. While holding up the tip of the bar, adjust the chain tension by turning the tensioner screw until the chain engages in the bar channel.

1c While lifting the tip of the guide bar, tighten the bar knob securely (clockwise). Hand tighten only!

NOTE: When tensioned correctly, it should be possible to pull one full chain link free of the bar channel with ease.

A new chain will expand its length during the first period of use. Check and re-adjust the tension frequently, as a loose chain can easily derail or cause rapid wear of itself and the chain bar.

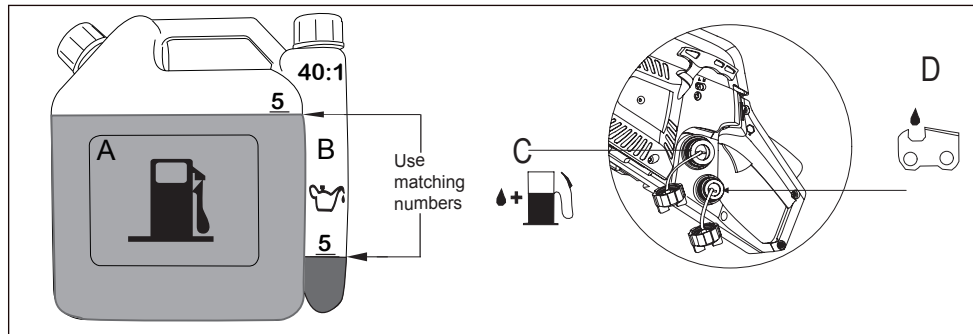


CAUTION! If the saw chain is TOO LOOSE or TOO TIGHT the V-drive wheel, chain bar, chain and crank shaft bearing will suffer premature wear. Above fig. shows the correct tension A (when cold) and tension B (when warm). Fig. C shows a chain that is too loose.

2 Tighten the chain cover.

Step 3 - Filling with engine fuel and lubrication

This product is powered by a 2-stroke engine and requires pre-mixing of petrol and 2-stroke oil. Use a high quality 2-stroke engine oil according JASO FC classic. Do not use automotive oil or 2-stroke outboard oil. DO NOT mix quantities larger than usable in a 30-day period.



FUEL MIXTURE: 1 Litre (1000ml) petrol: 25cc (25ml) 2-stroke engine oil (40:1 ratio)

Using a funnel and keeping the bottle level, pour the fuel in the left hand side (A) up to the required level, e.g. 2.5 or 5, then fill the right hand side (B) up to the same corresponding mark with oil. Shake vigorously to mix the two products prior to pouring into the tank (C).

NOTE: Use 5 for 500ml fuel mixture and 2.5 for 250ml fuel mixture.


FILLING THE LUBRICATION

Whenever you refill the fuel tank with petrol you must also top up the level of chain oil in the chain oil reservoir (D). Use special chainsaw oil to lubricate the saw chain.

NOTE: Most stores will sell acceptable oil under the name 'chainsaw chain oil'.

FILLING THE FUEL TANK

Clean the surface around the fuel cap to prevent contamination. Loosen the fuel cap slowly.

Remove and rest the cap on a clean surface. Carefully pour fuel into the tank to avoid spillage. Prior to replacing the fuel cap, clean and inspect the seal located inside the fuel cap . Immediately replace the fuel cap and hand tighten. Wipe up any fuel spillage.

NOTE: It is normal for smoke to be emitted from a new engine after first use.

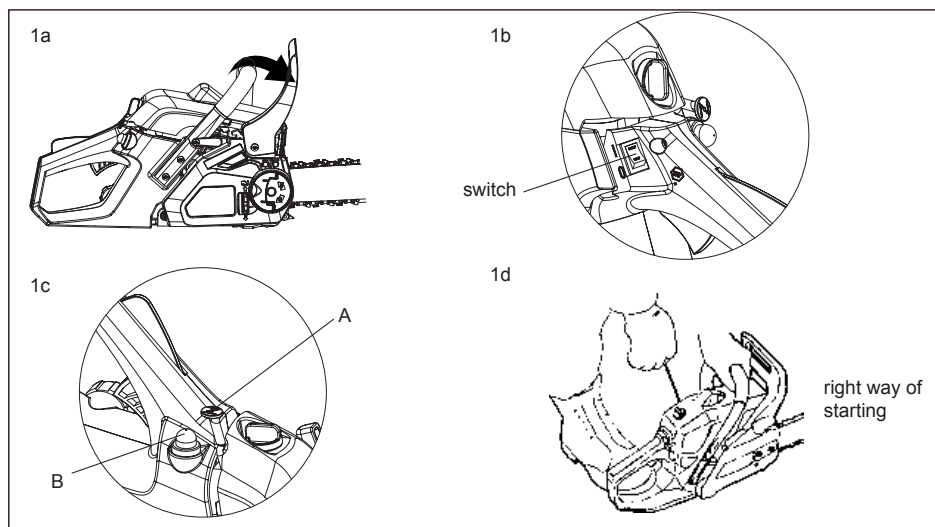


IMPORTANT!

The fuel mix is added into fuel tank (C), chain lubrication oil is filled into oil reservoir (D). Seal one cap prior to removing the second cap. If you put the fluid into the wrong tank, call the customer helpline immediately on 01904 727500.

Operation

Step 1 - Start the engine



WARNING!

Do not start the engine whilst holding the chainsaw in one hand; the saw chain may touch your body, which is very dangerous.

- 1a Engage the chain brake (push it forward until an audible click is heard).
- 1b Set the switch to the 'START' position.
- 1c Press and release the primer bulb (B) 10 times; ensure that the primer bulb is approximately 3/4 filled with fuel before attempting to start.
Pull the choke control (A) out to engage.
- 1d While holding the saw unit securely on the ground, pull the start handle four times. At this point, the engine will usually not start.
- 1e Push the choke control in to disengage (failure to do this may cause the engine to flood).
- 1f Pull the start handle with smooth, continuous pulls, no more than five times. If the engine does not start, remove the spark plug, dry it with a paper towel and replace. Repeat the start procedure.
- 1g Allow the saw to run and warm up in this position for 30 seconds.
- 1h. Disengage the chain brake by pulling it back.

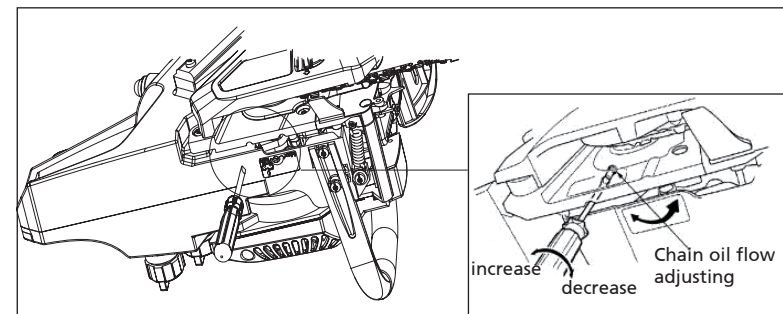
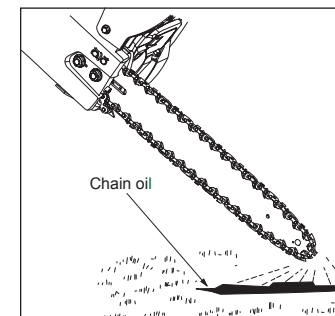
When restarting immediately after stopping the engine, or when the engine is warm, it will not be necessary to use the choke function.

Make sure the cutting blade is pointing away from your body at all times; the chain may rotate upon ignition.

NOTE: If you fail to start your machine or require further assistance, please contact our after sales support team on 01904 727500.

Step 2 - Checking the oil supply

With the chainsaw fully assembled and adjusted, it is important to check the chain oil supply is dispensing adequate lubrication.



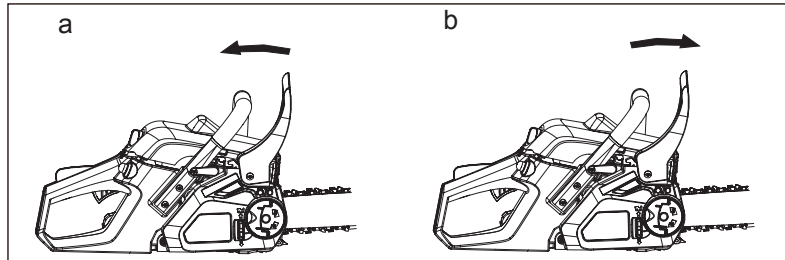
After starting the engine, run the chain at medium speed and see if chain oil is being dispensed as shown.

With the chainsaw switched off, the chain oil flow can be changed by inserting a screwdriver in the hole on the bottom of the side of the clutch. Increase or decrease the oil flow according to your work conditions. Restart the chainsaw and check the rate of flow meets your requirements.

NOTE: The oil reservoir should become nearly empty by the time fuel is used up. Be sure to refill the oil reservoir every time when refueling the saw.

Step 3 - Check the chain brake

This machine is equipped with a chain brake that will immediately disable the chain upon the occurrence of kickback during cutting. The brake is automatically operated by inertia forces, which act on the weight fitted inside the front guard. This brake can also be operated manually with the front guard pushed forward to the guide bar. To disengage the chain brake, pull it back until it touches the front handle.



a = brake disengage

b = brake engage

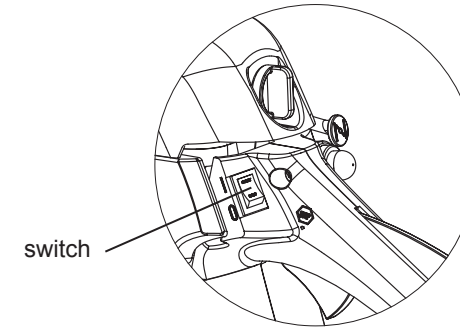


IMPORTANT! Be sure to test brake operation every time you use the machine and occasionally during the period of use.

How to confirm if the chain brake is functioning correctly

1. Turn off the engine and leave until cold.
2. With the chainsaw on a flat surface and the chain tensioned correctly, engage the chain brake by pushing it forward until an audible click is heard. Then, wearing protective gloves, attempt to move the chain by hand in the direction of normal rotation; if this is not possible, the chain brake has been engaged. If the brake is engaged when the chain is rotating at high speed for extended periods of time this can cause damage to the clutch or for it to fail completely. When the brake is activated whilst cutting, immediately release it, having first released the throttle lever, and set the chainsaw to 'STOP'.

Step 4 - Stop the engine



1. Release the throttle lever to allow the engine to idle for a few seconds.
2. Set the switch to the 'STOP' position.



IMPORTANT! Do not put the chainsaw on the ground when it is still running. For additional safety, switch the chainsaw off when not in use or between cuts. In the event that the ignition switch will not stop the saw, pull the choke control out and engage the chain brake to stop the engine. If the ignition switch does not stop the saw when set to the 'STOP' position, have the ignition switch repaired before using the chainsaw again, to prevent unsafe conditions or serious injury.

NOTE: When you have finished using the saw, always relieve the tank pressure by loosening, then retightening, the chain oil and fuel mix caps. Allow the engine to cool before storing.

Step 5 - Sawing



WARNING!

Before proceeding to your job, read the 'Safety instructions' section. It is recommended to first practice sawing easy logs. Ensure your logs are securely placed, using a saw or logging horse. This also helps you get accustomed to your unit. Always follow the safety regulations. This chainsaw is designed to cut wood **ONLY**. Cutting any other materials with this machine is **DANGEROUS** and will damage the machine. Vibrations and kickback will vary with materials other than wood, and the requirements of the safety regulations would not be met. Do not use the chainsaw as a lever for lifting, moving, or splitting objects. Do not lock it on a fixed stand. It is strictly forbidden to attach any accessories to this product other than those supplied by the manufacturer.

It is not necessary to force the saw into the cut. Apply only light pressure while running the engine at full throttle.

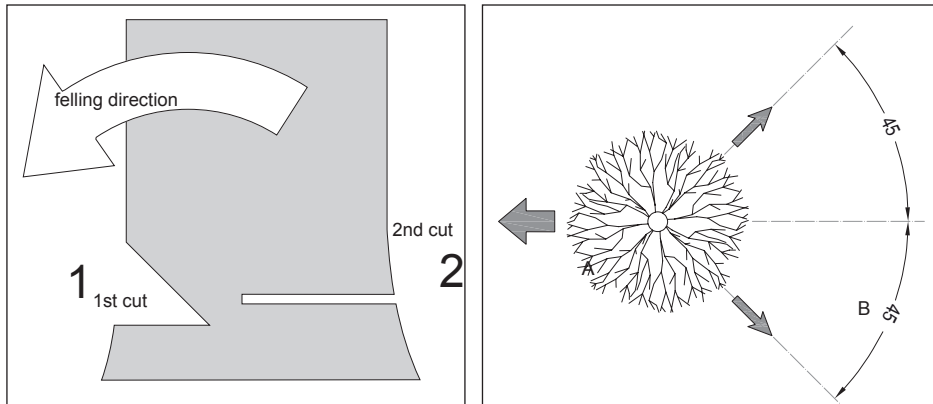
Step 6 - Felling a Tree



WARNING!

You should have received training from a suitable person before attempting to fell a tree.”

When you fell a tree, be sure to warn anyone in close proximity of the danger.



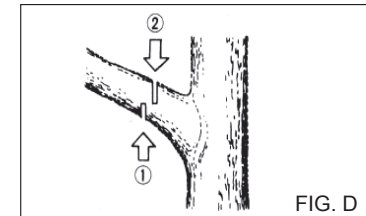
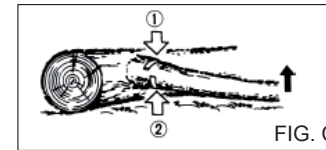
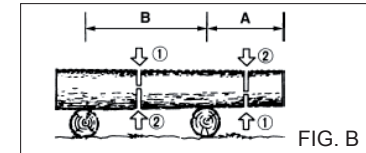
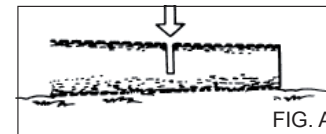
1. When deciding the felling direction, consider the wind, lean of the tree, location of heavy branches, ease of job after felling, and other factors.
2. While cleaning the area around the tree, arrange a good foothold and retreat path.
3. Make a notch cut one-third of the way into the tree on the felling side.
4. Make a felling cut from the opposite side of the notch and at a level slightly higher than the bottom of the notch.
5. Escape path: First, clear the tree base and work area of interfering limbs and brush, and clean its lower portion with an axe. Then, establish two paths of escape (B) and remove all obstacles. These paths should be generally opposite to the planned direction of the fall of the tree (A) and at about a 45° angle. Place all tools and equipment a safe distance away from the tree, but not on the escape paths.

Step 7 - Bucking and limbing



WARNING!

- Always ensure a stable foothold; do not stand on the log.
- Be alert to the rolling over of a cut log, especially when working on a slope, and stand on the uphill side of the log.
- Follow the instructions in ‘Safety Instructions’ to avoid kickback from the saw.
- Before starting work, check the direction of the bending force inside the log to be cut. Always finish cutting from the opposite side of the bending direction, to prevent the chain bar from being trapped in the cut. Follow this guidance:
- Do not use an unstable foothold or ladder.
- Do not overreach.
- Do not cut above shoulder height.
- Always use both hands to grip the saw.



A log lying on the ground (FIG. A)

Saw down halfway, then roll the log over and cut from the opposite side.

A log supported off the ground (FIG. B)

In area A, saw up from the bottom one-third and finish by sawing down from the top. In area B, saw down from the top one third and finish by sawing up from the bottom.

Cutting the limb of a fallen tree (FIG. C)

First check to which side the limb is bent. Then make an initial cut from the bend side and finish by sawing from the opposite side.



WARNING! Be alert to the spring back of a cut limb.

Pruning of a standing tree (FIG. D). Cut up from the bottom, finish down from the top.

Maintenance and Storage

List of vulnerable parts

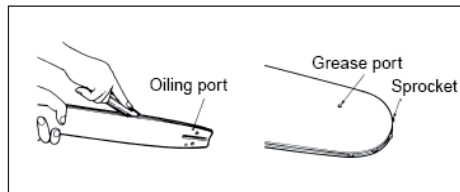
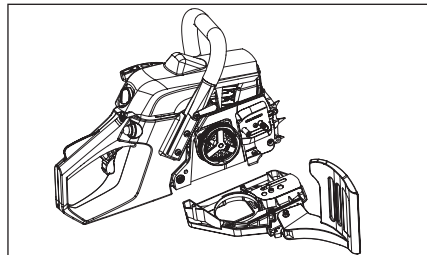
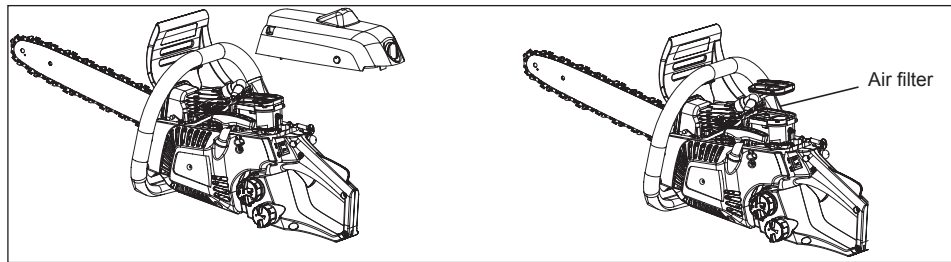
Description	Models or specifications
Spark plug	LD L8RTF/902700
Guide bar	180SDEA041
Saw chain	91P063X
Clutch drum	910221

Maintenance after each use



WARNING!

Before cleaning, inspecting or repairing your unit, make sure that the engine has stopped and is cool. Disconnect the spark plug to prevent accidental starting.



1. Air filter

Dust on the air filter surface can be removed by detaching the engine cover, removing the filter and tapping a corner of the filter cover against a hard surface. To clean dirt in the meshes, remove the cover and brush in petrol. When using compressed air, blow from the inside. To reassemble, push the cover back into place and press the rim until it clicks.

2. Oiling port

Detach the chain bar and check the oiling port for clogging.

3. Chain bar

When the chain bar is dismantled, remove sawdust from the bar groove and the oiling port. Grease the nose sprocket through the grease port on the tip of the bar.

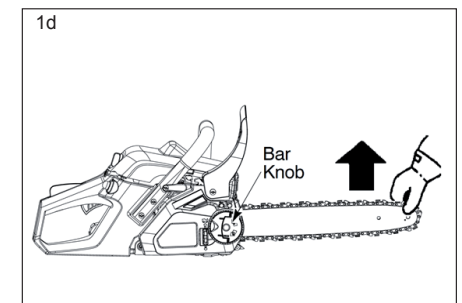
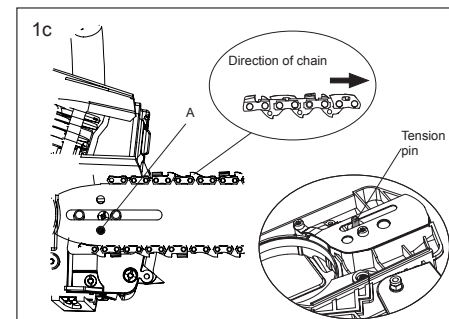
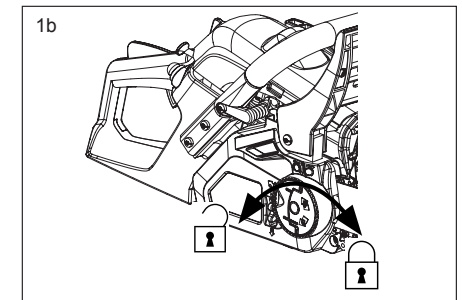
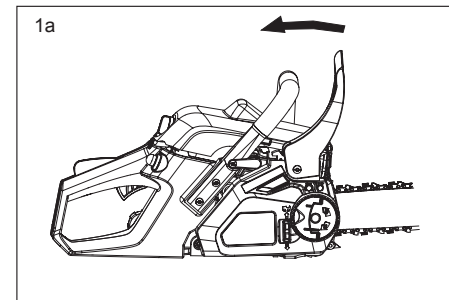
4. Others

Check for fuel leakage and loose fastenings and damage to major parts, especially handle joints, chain bar mounting and silencer. If any defects are found, make sure to have them repaired before operating the unit again.

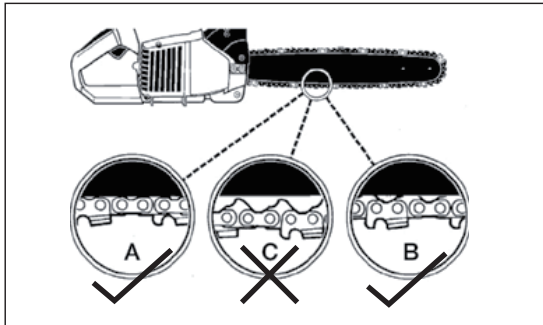
How to replace the saw

NOTE: It is very important for smooth and safe operation to cut with a sharp chain. The chain needs replacing when:

1. Sawdust becomes powder-like.
2. Cutting requires extra force.
3. The chainsaw does not cut straight and clean.
4. Vibration increases.
5. Fuel consumption increases.



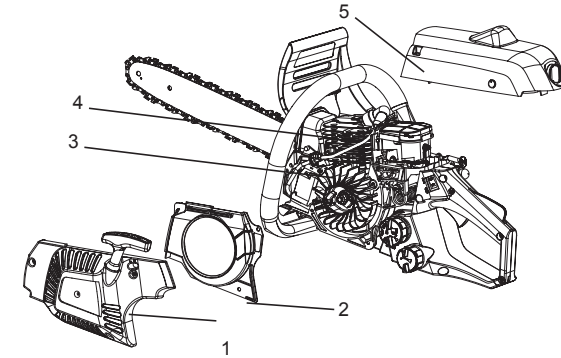
- 1a Pull the chain brake back and ensure that it has been released (the chain cover can only be removed with the chain brake disengaged).
 - 1b Then remove the securing nuts and the chain cover.
 - 1c Fit the chain around the bar ensuring that the direction of the chain is as depicted in the picture on the bar. Fit the chain on the sprocket. Adjust the position of the chain tensioner so the tensioner pin locates in the hole (A) on the bar.
 6. Adjust the tension to ensure that there is not too much slack in the chain. Make sure the tensioner pin is located in the assembly hole on the bar. Pay attention to the correct direction of the saw chain. Compare with the picture near the chain sprocket and the picture on the bar.
 7. Fit the chain cover to the power unit. While lifting the tip of the guide bar, tighten the bar knob securely (clockwise). Hand tighten only!
 8. While holding up the tip of the bar, adjust the chain tension by turning the tensioner screw until the chain engages in the bar channel.
- When tensioned correctly, it should be possible to pull one full chain link free of the bar channel with ease, see image on previous page (1d).
9. Tighten the nuts securely (finger tight). Then check the chain for smooth rotation and proper tension while moving it by hand. If necessary, loosen the chain cover.
 10. Tighten the tensioner nuts.



NOTE: A new chain will expand its length during the first period of use. Check and re-adjust the tension frequently, as a loose chain can easily derail or cause rapid wear of itself and the chain bar.

CAUTION! If the saw chain is TOO LOOSE or TOO TAUT, the V-drive wheel, chain bar, chain and crank shaft bearing will suffer premature wear. Above picture shows the correct tension A (when cold) and tension B (when warm). FIG. C shows a chain that is too loose.

Periodical service points



1. Start assembly
2. Fan cover
3. Fan
4. Cylinder fins
5. Engine cover

Maintenance of the saw chain and the chain bar

1. Air cooling system

Dust clogging around the cooling system and the cylinder fins will cause overheating of the engine. Periodically check and clean the cooling system and the cylinder fins with a brush, after removing the cylinder cover, the air cleaner and the recoil case. When installing the cylinder cover and the cooling system, make sure that switch wires and grommets are positioned correctly in place.

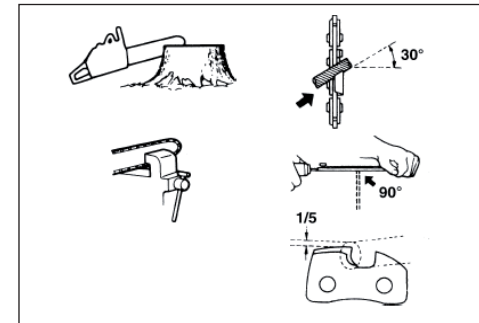
NOTE: Be sure to unblock the air intake hole.

2. Cutter setting guidance



WARNING!

Be sure to wear safety gloves.

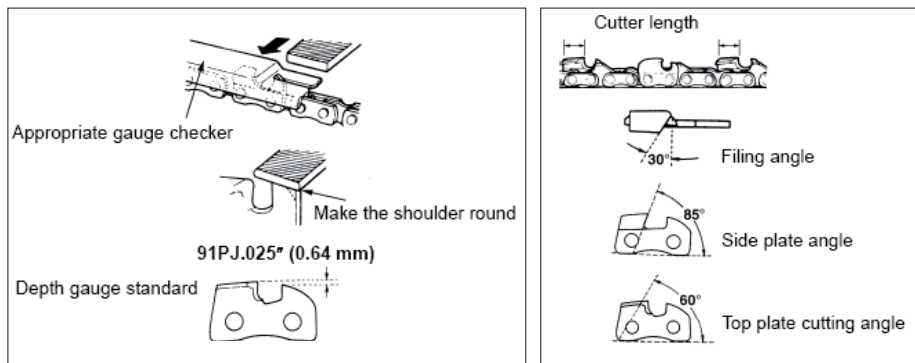


Before filing:

1. Make sure the saw chain is held securely.
2. Make sure the engine is stopped.
3. Use a round file with the proper size for your chain.

Note: Chain type: Oregon 91PJ063X. File size: 5/32 in (4mm).

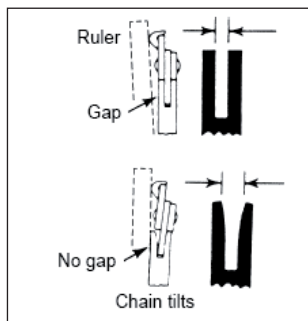
Place your file on the cutter and push straight forward. Place the file in position, as illustrated.



After every cutter has been set, check the depth gauge and file it to the proper level, as illustrated.

Make sure every cutter has the same length and angle, as illustrated.

Chain bar



1. Reverse the bar occasionally to prevent partial wear.
2. The bar rail should always have parallel internal faces (see diagram). Check for wear of the bar rail by applying a ruler to the bar and the outside of a cutter. If a gap is observed between them, the rail is normal. Otherwise, the bar rail is worn. Such a bar needs to be corrected or replaced.

Storage

Store the chainsaw after emptying the lubrication tank and fuel tank. Allow the engine to cool before storing in any enclosure.

To reduce the fire hazard, keep the engine, silencer and petrol storage area free of hedge, leaves, or excessive grease.

Troubleshooting



WARNING!

Always switch off the engine and pull the ignition cable before starting any inspection or adjustment work.

If after making an adjustment or repair to the engine you let it run for a few minutes, remember that the exhaust and other parts will get hot. Thus, do not touch parts that emanate heat, as these may burn you.

The following table provides solutions to common problems encountered with the chainsaw.

Fault	Possible cause	Solution
Unit won't start or starts but will not run	<ol style="list-style-type: none"> 1. Incorrect starting procedures 2. Incorrect carburetor mixture adjustment setting 3. Fouled spark plug 4. Fuel filter blocked 5. Chain brake is on 	<ol style="list-style-type: none"> 1. Follow instructions in the user guide or refer to the starting procedure check list on page 20 2. Have carburetor adjusted by an authorised service centre 3. Clean/gap or replace plug 4. Replace fuel filter 5. Put chain brake in off position
Unit starts, but engine has low power	<ol style="list-style-type: none"> 1. Incorrect lever position on choke 2. Dirty air filter 3. Incorrect carburetor mixture adjustment setting 	<ol style="list-style-type: none"> 1. Move to RUN position 2. Remove, clean and reinstall filter 3. Have carburetor adjusted by an authorised service centre
Engine hesitates	Incorrect carburetor mixture adjustment setting	Have carburetor adjusted by an authorised service centre

Fault	Possible cause	Solution
No power under load	Incorrectly gapped spark plug	Clean/gap or replace plug
Runs erratically	Incorrect carburetor mixture adjustment setting	Have carburetor adjusted by an authorised service centre
Smokes excessively	Incorrect fuel mixture	Use properly mixed fuel (40:1 ratio)
Poor performance when operated	1. Blunt chain 2. Loose chain	1. Sharpen or replace the chain 2. Tension the chain
Engine dies	1. Empty petrol tank 2. Fuel filter in the wrong position in the tank	1. Fill up the petrol tank 2. Completely fill the petrol tank or re-position the fuel filter in the petrol tank
Insufficient chain lubrication (the cutter rail and chain get hot)	1. Empty oil tank for the chain 2. Oil lubrication opening blocked	1. Top up the oil tank for the chain 2. Clean the oil lubrication hole in the cutter bar (FIG. 5/item A) Clean the groove in the cutter bar

Technical Data

Engine displacement	45.4cm ³
Maximum engine capacity	1.6kW
Bar length	45cm
Cutter rail length	42cm
Chain gauge	(0.050"), 1.27mm
Idling speed	3300min ⁻¹
Maximum speed with cutting equipment	11500min ⁻¹
Chain speed	16.7m/s
Fuel tank capacity	270ml
Oil tank capacity	190ml
Anti-vibration function	Yes
Chain wheel teeth	6 teeth x 9.255mm
Chain brake	Yes
Clutch	Yes
Automatic chain lubrication	Yes
Low-kickback chain	Yes
Net weight without chain and chain bar	5kg
Net weight (dry)	5.8kg
Fuel consumption (specific)	450g/kWh
L _{DA} sound pressure level	101 dB(A) K=3 dB(A)
L _{WA} sound power level	115 dB(A)
Vibration ahv (front handle)	max. 3.04 m/s ² K=1.5m/s ²
Vibration ahv (rear handle)	max. 5.10 m/s ² K=1.5m/s ²
Chain type	Oregon: 91PJ063X
Bar type	Oregon: 180SDEA041
Spark plug	L8RTF

Disposal

The chainsaw and its accessories are made of various recyclable materials. Dispose of the chainsaw in accordance with your local recycling regulations.

Getting Help

Our dedicated UK-based customer helpline is open 7 days a week to assist you with assembly, parts queries and technical support. We are open during office hours but you can always send an email via **support@gardenservicecentre.co.uk**. Our experts are here to get you back enjoying your garden in no time.

For useful assembly, starting and maintenance videos, and for ordering spares, please visit **www.gardenservicecentre.co.uk**.

Calling our service does not affect your statutory rights.

Warranty

Any claim under this warranty must be made within 2 years of the date of purchase. To make a claim under the warranty, take the product (with proof of purchase) to your local store.

HHGL Limited bears reasonable, direct expenses of claiming under the warranty.

You may submit details and proof to our store for consideration. The warranty covers manufacturer defects in materials, workmanship and finish under normal use.

This warranty is provided in addition to other rights and remedies you may have under law: our goods come with guarantees, which cannot be excluded under the UK Consumer Rights Act 2015.

You are entitled to a replacement or refund for a major failure, and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality, and the failure does not amount to a major failure.

The warranty excludes damage resulting from product misuse or product neglect. The warranty covers domestic use only and does not apply to commercial applications.

This warranty is given by HHGL Limited, Witan Gate House, 500-600 Witan Gate, Milton Keynes, MK9 1BA.