



SPEAR & JACKSON

**INSTRUCTION
MANUAL**

4 IN 1 MULTI TOOL
**29.9CC PETROL
MT299**



AFTERSALES SERVICE
01904 727505
MON-FRI 9am-5pm SAT/SUN 11am-4pm
www.spearandjackson-power.com



Important - Please read these instructions fully before operating or maintaining your multi garden tool.

These instructions contain important information that will help you get the best from your 4-in-1 petrol multipurpose garden tool, protecting your power tool investment.

THANK YOU!

Dear Customer,

Thank you for choosing a Spear and Jackson 4-in-1 petrol multipurpose garden tool. Spear and Jackson was founded in 1760 in the city of Sheffield, which is world famous for the production of steel, cutlery and garden and hand tools. Through continuous innovation and the use of new technologies and materials, Spear and Jackson has gained an enviable reputation as a supplier of reliable, high performance and high quality products designed to make your work in the garden as easy and enjoyable as possible.

FREE EXTENDED WARRANTY

We are so confident in the quality of our products we provide a 2 year guarantee on our garden power tools. We offer 12 month extended warranty for all registered garden power tools. Simply register your product within 28 days of purchase via www.spearandjackson-power.com to extend the standard manufacturer's warranty with an additional 12 months. After registering your product, your garden power tool will be covered for parts and labour for 3 years from the date of purchase, subject to the terms of the guarantee. If you do not wish to register your product within 28 days, your product is guaranteed for 2 year after date of purchase. It's important to retain your proof of purchase.

7 DAYS A WEEK TECHNICAL SUPPORT

We want you to get the best out of your products. Our easy-to-read instruction manual guides you with best practice use and maintenance tips. You can also visit www.spearandjackson-power.com for online help, general tips and useful videos about your garden product. However, if you prefer to speak to one of technicians please call **01904 727505, Mon-Fri 9am-5pm and Sat-Sun 11am-4pm**, we can solve around 80% of questions directly over the phone.

We hope you enjoy your product and looking forward to any feedback, as this allows us to develop even better products for the future.

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SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

DESCRIPTION OF SYMBOLS

The following warning symbols appear throughout this manual and indicate the appropriate safety measures you should take when operating and maintaining the petrol multi tool.



WARNING!

This is a warning symbol. This symbol is used throughout the user guide whenever there is a risk of personal injury. Ensure that these warnings are read and understood at all times..



Read operating manual before use.



Conforms to all relevant safety standards.



Wear safety goggles, helmet and ear protector



Wear protective gloves



Wear protective footwear



Wear protection clothing



Beware of blade trust. Blade is continually in motion.



When starting and working, keep the filament head away from foreign materials.



When working, maintain a safety distance of 15m from other people and from animals.



The machine shall not be used in any position that causes any part to come within 10 m of overhead electrical lines.



If you turn the rod by screwdriver follow the arrow to the “MAX” position, the chain oil flow more, and if you turn to the “MIN” position, less.



Maximum revolutions per minute the cutting tool can achieve.



Maximum permitted rotation speed of the cutting tool.



Warning! Hot surface, do not touch.



Guaranteed sound power level.

SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

GENERAL SAFETY



IMPORTANT!

- 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 brush cutter. Local regulations can restrict the age of the operator.
- 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 use of the appliance by a person responsible for their safety.
- Don't touch rotating spool and brush cutter blade.
- Don't touch the chain and hedge trimmer blade.

PERSONAL SAFETY



WARNING!

- Do not allow children or untrained individuals to use this unit.
- Never start or run the engine in an enclosed or poorly ventilated area, breathing exhaust fumes can kill.
- Clear the work area before each use. Remove all objects such as rocks, broken glass, nails, wire, or other such debris which can be thrown or become entangled in the cutting line or blade.
- Wear safety glasses or goggles when operating this unit.
- Wear heavy, long trousers, boots, and gloves. Do not wear loose fitting clothing, shorts or go barefoot. Do not wear jewellery of any kind.
- Never operate this unit on the operator's left side.
- Secure long hair above shoulder level to prevent entanglement in moving parts.
- Keep all bystanders, children, and pets at least 15m (50 ft.) away.
- Do not operate this unit when you are tired, ill or under the influence of alcohol, drugs or medication.
- Do not operate in poor lighting.
- Keep firm footing. Do not overreach.
- Overreaching can result in loss of balance or exposure to hot surfaces.
- Keep all parts of your body away from any moving parts.
- To avoid hot surfaces, never operate the unit with the bottom of the engine above waist level.

SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

- Do not touch the area around the exhaust or the cylinder of the unit as these parts get hot during operation.
- Always stop the engine and remove the spark plug cable before making any adjustments.
- Inspect the unit for loose fasteners, fuel leaks, etc. before each use. Replace any damaged parts before use.
- It has been reported that vibrations from hand-held tools may contribute to a condition called Raynaud's Syndrome in certain individuals. Symptoms may include tingling, numbness and blanching of the fingers, usually apparent upon exposure to cold. There are measures that can be taken by the operator to possibly reduce the effects of vibration:
 - a. Keep your body warm in cold weather. When operating the unit wear gloves to keep the hands and wrists warm. It is reported that cold weather is a major factor contributing to Raynaud's Syndrome.
 - b. After each period of operation, exercise to increase blood circulation.
 - c. Take frequent work breaks. Limit the amount of exposure per day.
 - d. Keep the tool well maintained, fasteners tightened and worn parts replaced.
- If you experience any of the symptoms of this condition, immediately discontinue use and see your Doctor about these symptoms.
- Mix and store fuel in a container approved for petrol and clearly identified as 2-Stroke mixture.
- Mix fuel outdoors where there are no sparks or flames. Wipe up any fuel spillage. Move 9m (30 ft) away from refuelling site before starting engine.
- Stop the engine and allow to cool before refuelling or storing the unit.
- Allow the engine to cool; empty the fuel tank and secure the unit from moving before transporting in a vehicle.
- Replace string head if cracked, chipped or damaged in any way. Be sure the string head is properly installed and securely fastened. Failure to do so can cause serious injury.
- Make sure all guards, straps, and handles are properly and securely attached.
- Use only suitable replacement line in the cutting head. Do not use any other cutting attachment.
- Do not install any other brand of cutting head to this string trimmer, it could result in serious personal injury.
- Never operate unit without the grass guard in place
- Maintain a firm grip on both handles while trimming. Keep string head below waist level. Never cut with the string head located over 76 cm (30 in.) or more above the ground.
- After engine stops, keep rotating blade in thicker weeds or pulpy stalks until it stops.
- Do not operate the brush cutter unless the brush cutter guard is firmly secured in place and in good condition.
- Use heavy gloves when operating the brush cutter and when installing or removing blades.

SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

- Always stop the engine and remove the spark plug wire before attempting to remove any obstruction caught or jammed in the blade or before removing and installing the blade.
- Do not attempt to touch or stop the blade when it is rotating.
- A rotating blade can cause injury while it continues to spin after the engine has stopped or throttle trigger has released.
- Maintain proper control until the blade has completely stopped rotating.
- Replace any blade that has been damaged. Always make sure that blade has been installed correctly and securely fastened before each use. Failure to do so can cause serious injury.
- Use only the manufacturer's replacement blades intended for brush cutter. Do not use any other blades. No compliance can result in serious personal injury.
- The blade is suited for cutting thicker weeds or pulpy stalks only. Do not use for any other purpose. Do not use the blade to cut woody brush.
- Exercise extreme caution when using the blade with this unit. Blade thrust may occur when the spinning blade is in contact with anything that can't be cut. This may cause the blade to stop instantly, and suddenly "thrust" the unit away from the object. This reaction can be violent enough to cause the operator to lose control of the unit. Blade thrust can occur without warning when blade snags, stalls, or binds.
- This is more likely to occur in areas where it is difficult to see the material being cut.
- For cutting ease and safety, approach the weeds from right to left. In the event of

an unexpected object or woody stock is encountered, this could minimize the blade thrust reaction.

- Always wear the shoulder harness when using the brush cutter and adjust to a comfortable operating position. Maintain a firm grip on both handles while cutting with a blade. Keep the blade away from your body and below your waist level.
- Never use the brush cutter with the blade located 76 cm (30 in.) or more above the ground level.

MAINTENANCE

- 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, battery compartment free of grass, leaves, or excessive grease;
- Replace worn or damaged parts for safety;
- If the fuel tank has to be drained, this should be done outdoors.

SAFETY INFORMATION

Please read these instructions fully before operating or maintaining your machine

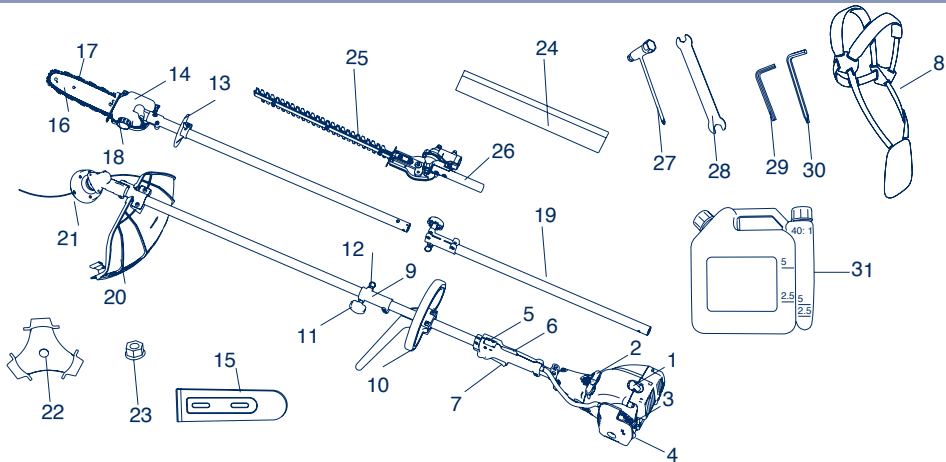
INTENDED USE

- This machine(with spool/ blade) is designed to use as brush cutter for cutting brushes and as grass trimmer for trimming grass and light foliage - for non-commercial use only!
- This machine (with hedge trimmer blade) is designed for trimming hedges, branch diameter less than 24mm.
- This machine (with saw chain) is designed for sawing wood, branch diameter less than 200mm.
- **Residual risks:** The machine uses a rotating cutting tools. Through this rotational motion debris can be thrown from the cutting head of the unit (eg stones and sticks).
- Any use of the machine that deviates from its intended use and is not included in these instructions is considered unauthorized use and relieves the manufacturer from legal liability.

BOX CONTENT

PARTS

- | | |
|----------------------------|-----------------------------------|
| 1 Spark plug cover | 16 Chain bar |
| 2 Start handle grip | 17 Saw chain |
| 3 Choke lever | 18 Oil tank cap |
| 4 Primer bulb | 19 Extension pole |
| 5 Stop switch | 20 Guard |
| 6 Throttle trigger lockout | 21 String spool head |
| 7 Throttle trigger | 22 Blade |
| 8 Fully adjustable harness | 23 Blade nut |
| 9 Connection joint | 24 Hedge trimmer blade sheath |
| 10 Front handle | 25 Hedge trimmer blade |
| 11 Tightening knob | 26 Cutting angle adjustment lever |
| 12 Lock pin ring | 27 Spark plug driver |
| 13 Collar | 28 Spanner |
| 14 Chain oil tank | 29 Allen wrench |
| 15 Chain bar cover | 30 Allen wrench+ screw driver |
| | 31 Mixing bottle |

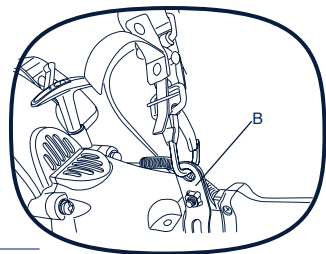
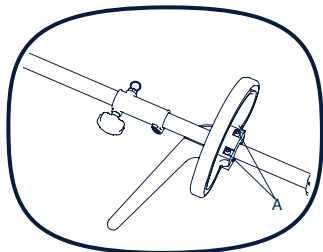


PLEASE NOTE: THIS PRODUCTS REQUIRES 2 STROKE OIL, UNLEADED PETROL AND CHAIN LUBRICATION OIL, AVAILABLE IN MOST DIY STORES.

If there are any parts missing, please call the customer helpline on 01904 727505

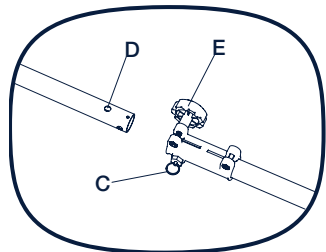
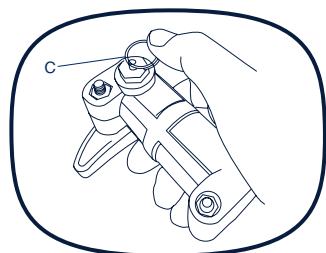
1 Front handle/Harness installation

- Take the straight part of the handle and insert the location pin in one of the holes under the tube extending from the engine.
- Place the round handle on top with the recess facing the engine. Tighten the screws (A) to make sure the handle locked on the tube.
- Attach the shoulder harness by hooking the clip on the suspension point (B).



2 Shaft connection

- Push the lock ring (C) fully down.
- Install the attachment shaft into the drive unit, you may have to rotate the attachment shaft to make sure the shafts align together.
- Release the lock ring (C), ensuring the lock pin is inserted in the lock hole (D);
- Tighten the knob (E).
- Check if the connection is secure.



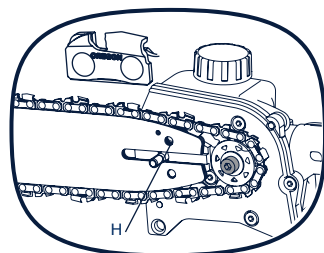
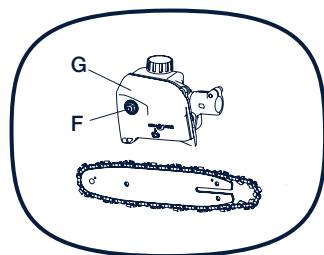
ASSEMBLY



Warning: The extension pole is only optional for the pruner and the hedge trimmer, NOT for the brush or the grass trimmer.

3 Mount the guide bar and sawing chain

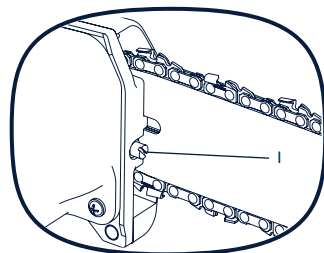
- Take the pruning attachment and unscrew the fastening screw (F) and remove the sprocket guard (G).
- Fit the chain around the bar ensuring that the direction of the chain is as in the picture on the bar.
- Fit the bar on the sprocket and the pin locates in the hole (A) on the bar. Ensure the direction of the chain is as pictured on the bar, and the chain is moving in the right direction.
- Put on the chain guard and tighten the fastening screw (F).



4 Chain tension adjusting

The chain must not be too loose and hang away from the chain bar, it should be possible to lift it a few millimeters up from the chain bar.

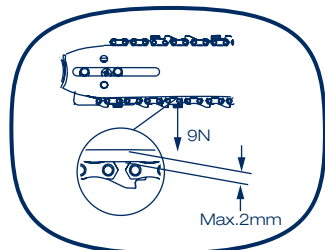
- Loosen the fastening screw (F)
- Slightly lift the chain bar tip
- Rotate the chain by hand to check if it runs smoothly.
- Tighten the chain tension screw (I)



ASSEMBLY

- When the saw chain is tensioned with 9N (approx. 1kg), the gap between the saw chain and the guide rail should never exceed 2mm
- Tighten the fastening screw (F)

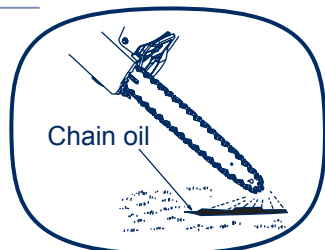
NOTE! Do not over tension the chain as this will reduce the life of the chain bar and the motor. With a correctly tensioned chain you will get good cutting performance and prolong longer life.



5 Chain lubrication



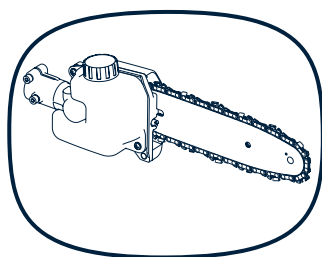
WARNING! The rail and chain must never be without oil. Operating the electric chainsaw with too little oil, will cause fast overheating of the chain and bar. Smoke development or discoloration of the bar are signs of using too little oil.



NOTE! This chainsaw is equipped with an automatic oil system. As soon as the motor is accelerated, the oil also flows faster to the chain bar.

Check the oil fill level and regularly top up with oil. The oil tank holds 100 ml oil. Use chain lubrication oil with low adhesive additive content. The type of motor oil SAE10W-30 is recommended.

- Unscrew the oil fill cap and fill up the tank with chain oil.
- Wipe off any spilled oil and screw the cap back on the tank.
- Switch on the chainsaw pointing it at the ground without touching!
- If an oil trace can be seen, the chainsaw is lubricating.

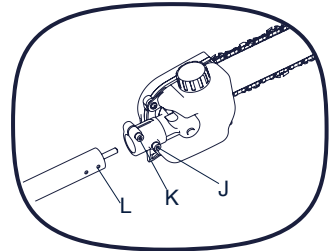


NOTE! Never saw when a sufficient chain lubrication is not guaranteed. Before starting work check the oil level in the tank and the oil feeding.

ASSEMBLY

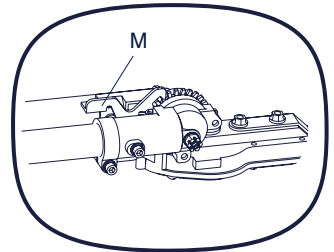
6 Install the pruner or the hedge trimmer attachment

- Loosen the clamping screw (K).
- Loosen the fixing screw (J).
- Push the coupling piece onto the extension rod inside the tube.
- You may have to rotate the head to align the shafts together.
- The hole (L) and the fixing screw (K) must align.
- Check the head attachment is securely fitted. Tighten the clamping screw and the fixing screw.



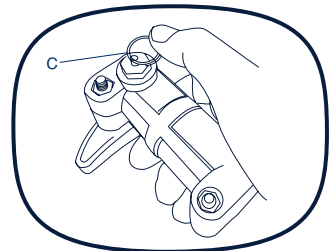
Adjust the hedge trimmer:

- Press the fixer (M).
- Set the hedge trimmer to the desired cutting angle .
- Release the fixer in of the tooth gaps to secure the position.

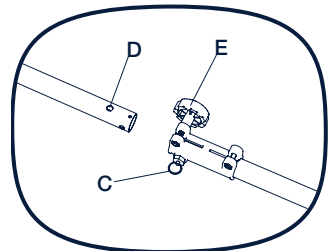


7 Install the extended tube for the pruner or the hedge trimmer attachment

- Push the lock ring (C) fully down.
- Install the attachment shaft into the drive unit- you may have to rotate the attachment shaft to make sure the shafts align together.



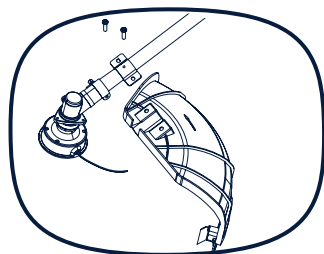
- Release the lock ring, ensuring the lock pin is inserted in the lock hole (D);
- Tighten the tight knob (E).



ASSEMBLY

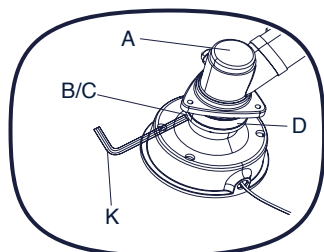
8 Installation of the grass trimmer guard

- Remove the two screws from the guard (20).
- Align the screw hole in the mounting bracket with the screw hole in the grass guard.
- Insert the screws through the mounting bracket and into the grass guard.
- Tighten the screw securely.

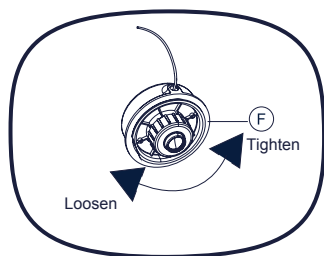


9 Changing the grass trimmer spool for the brush cutter blade for the grass trimmer

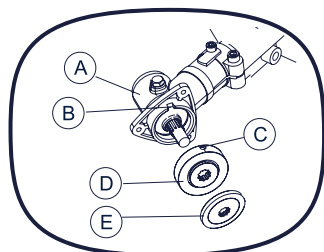
- Align the slot (C) in the flanged washer (D) with the slot (B) in the gear head (A).
- Place the hex wrench (K) through the slots in the flanged washer (D) and gear head (A) to lock them together.



- Unscrew the assembled grass trimmer head (F) by hand in clockwise direction.



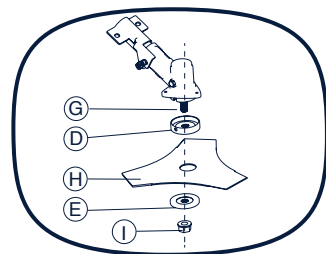
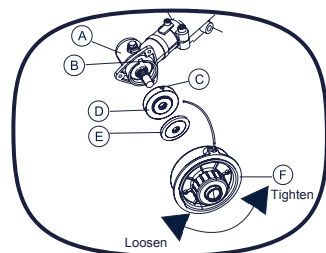
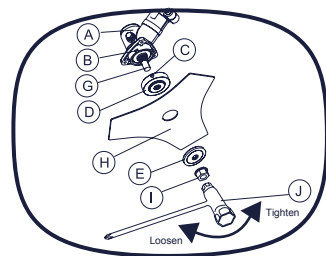
- Remove the cupped washer (E) and flanged washer (D), and then retain it for the blade installation.
- Place the flanged washer (D) over the gear head shaft (G) with the hollow side towards the gear head (A).
- Centre the blade (H) on the flanged washer (D), making sure the blade fits flat and the raised hub of the flanged washer goes through the hole in the blade.
- Install the cupped washer (E) with the raised centre away from the blade.



ASSEMBLY

- Place the blade nut (I) onto the gear head shaft (G).
- Place the hex wrench (K) through the slots in the flanged washer (D) and gear head (A) to lock the heads rotation while tightening the nut.
- Install the blade nut (I) by turning it counterclockwise (left handed threads).
- Tighten the blade nut (I) securely by wrench (J).
- Check to make sure blade/spool head is securely fitted.

NOTE! If you change from the brush cutter to the grass trimmer, follow the above instructions in the reverse order, keeping in mind to position the trimmer head with the 'nut recess' over the spool head adapter and screwing on the trimmer head anti-clockwise.



WARNING! The extension pole can not be assembled with brush cutter or grass trimmer attachment.

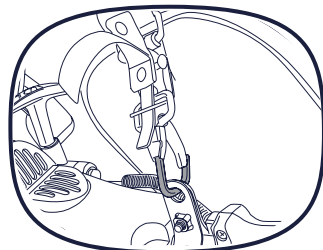
10 How to use the harness



WARNING! Always wear the provided harness when using the machine!

Always make sure the machine is clipped/hooked securely to the harness.
Never use a harness with a defective quick release or any other damage.

Emergency release: Press the hanger of shoulder harness to get rid of the tool and free from operator.

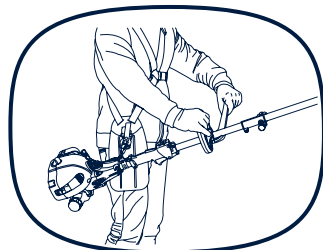


How to wear

Wear the provided harness without twisted bands, with the hanger on your right side.

Balance the unit

- Clip/Hook your machine to the hanger.
- Adjust the bands of the harness to have the blade parallel to the ground when standing in your normal working position to provide you most effectiveness and comfort on operating the machine.
- In order to prevent the hanger position to change during operation, turn up the extra part of the band



PREPARATION



IMPORTANT

Cut only materials recommended by the manufacturer. And use only for tasks explained in the manual.

Preparing the work area

- When working in a public area, please mark off the working space to avoid people entering.
- Keep bystanders and animals at least 15m away. If you are approached, immediately stop the engine.
- Remove any obstacle before beginning work.
- Inspect the entire unit for loose fasteners and fuel leakage. Make sure that the cutting attachment is properly installed and securely fastened.
- Be sure the cutting attachment guard is firmly attached in place.
- Always use the harness. Adjust the strap for comfort before starting the engine. The strap should be adjusted so the left hand can comfortably hold the handlebar grip approximately waist high.
- Grip the handles firmly with both hands using your whole hand. Place your feet slightly apart (slightly further apart than the width of your shoulders) so that your weight is distributed evenly across both legs, and always be sure to maintain a steady, even posture while working.
- Keep cutting attachment below waist level.
- Maintain the speed of the engine at the level required to perform cutting work, and never raise the speed of the engine above the level necessary.
- If the unit starts to shake or vibrate, turn off the engine and check the whole unit. Do not use it until the trouble has been properly corrected.
- Keep all parts of your body away from rotating cutting attachment and hot surfaces.
- Never touch the muffler, spark plug, or other metallic parts of the engine while the engine is in operation or immediately after shutting down the engine. Doing so could result in serious burns or electrical shock.

PREPARATION

1 Fuel

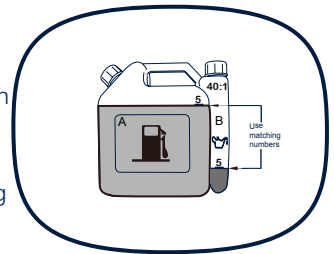


WARNING! Petrol is very flammable. Avoid smoking or bringing any flame or sparks near fuel. Make sure to stop the engine and allow it cool before refueling the unit. Select an outdoor bare ground for fueling and move at least 3 m (10 ft) away from the fueling point before starting the engine.

This product is powered by a 2-stroke engine and requires pre-mixing unleaded petrol and 2-stroke oil. Mix 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 (1000 ml) petrol: 25cc (25 ml) 2 Stroke engine oil (40:1 ratio)

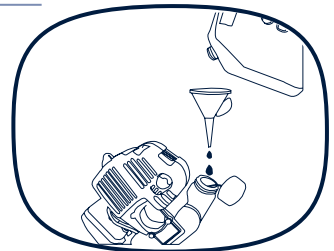
- Using a funnel and keeping the bottle level, pour the oil in the right hand ('B') up to the required level eg 2.5 or 5 then fill the left hand side ('A') up to the same corresponding mark with fuel.
- Please ensure that no oil has leaked into A prior to pouring in fuel.
- Shake vigorously to mix the two products prior to pouring into the tank of the multi tool.



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

Filling tank

- Clean the surface around the fuel cap to prevent contamination.
- Loosen the fuel cap slowly. Rest the cap on a clean surface.
- Carefully pour the mixture into the tank. Avoid spillage.
- Prior to replacing the fuel cap, clean and inspect the gasket.
- Immediately replace fuel cap and hand tighten. Wipe up any fuel spillage.



STARTING PROCEDURE

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

Starting procedure

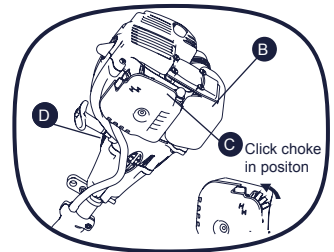
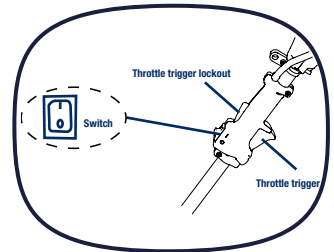
To start a cold engine:

Application

1. Set the switch to "I"
2. Slowly press the primer bulb 7x;
3. Set the RED choke lever to until it clicks.
4. Pull the pull cord quickly until the engine runs.

Note! If the engine doesn't run at maximum 7 pulls. Press the throttle trigger lockout and throttle trigger, this kicks out the choke lever into the RUN position, pull again to start.

5. Allow the engine to run 15 seconds.
6. The machine is now ready for operation.

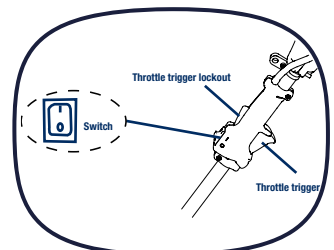


To start a warm engine:

If the engine is still warm, simply set the switch to I, and pull the pull cord until it starts.







Stop the engine:

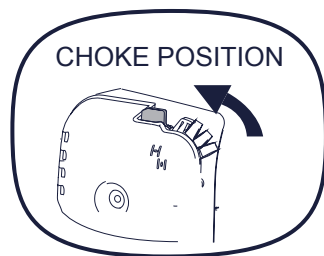
To stop the engine, release the trigger and push the switch to 'O'.



STARTING PROCEDURE

Quick start guide

	Cold	Hot
1 Set START/STOP switch to START position		
2 Press primer bulb 5~7 times		
3 Rotate and click RED choke lever in position.		
4 Pull cord maximum 7x to start the engine.		
<p>If engine doesn't start within 7 pulls</p> <ul style="list-style-type: none"> - Perform a short squeeze of the throttle to lock out the choke. - Pull cord again until the engine starts. 		
5 Wait 15 seconds to warm up the engine, before operating the machine.		

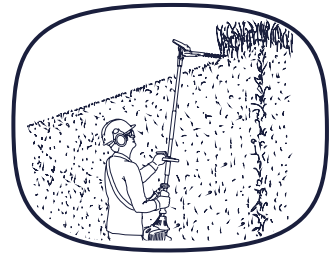


OPERATION

1 Hedge trimmer operations:

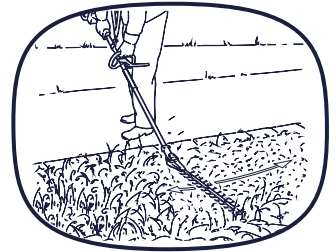
Ensure a firm working position when working with the hedge trimmer. Do not use this product on ladder or in odd positions.

- i. Keep a firm grip and do not over reach during operation.
- ii. Only adjust the cutting blade angle with the unit lying flat on the ground, with the engine switch in the “stop” position. Never adjust the cutting angle in an upright.



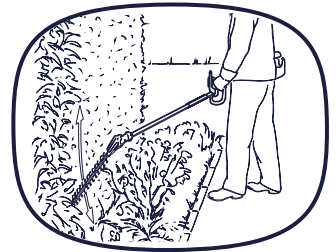
Trimming

i. Cut and remove branches exceeding the cutting capacity of this product using a proper pruner before operation.



ii. Move the cutting device lightly through the surface to be cut in a sweeping motion following the shape of the hedge or shrub.

iii. A slight tilt downwards of the cutting device in the direction of motion is recommended for optimum cutting performance.



iv. Do not rush and do not attempt to cut too much with one stroke of the cutting device.



Warning! Never adjust the attachment with the engine running. Always switch off engine and disconnect spark plug.

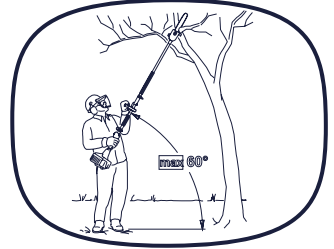
OPERATION

2 Pruner operation:

1. Follow the general safety and operating instructions in this manual.
2. Lay the pole pruner on the ground and ensure that no objects or obstructions are in the immediate vicinity. Make sure nothing can come in contact with the bar and chain

Note! To avoid kickback, binding of the chain bar, and possible injury, never cut branches that are out of reach of the product while adopting a safe working position.

3. Never stand directly under the branch that you are cutting.

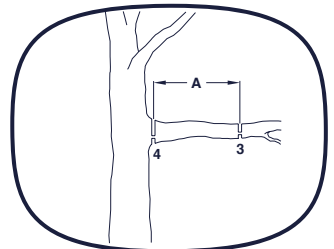
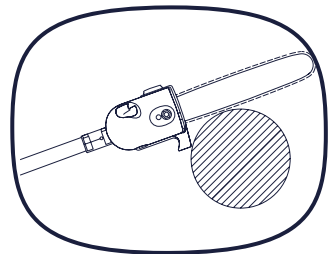


Warning! Never adjust the attachment with the engine running. Always switch off engine and disconnect spark plug.

The following steps should be followed to prevent damage to the tree or shrub bark.

Pruning is trimming limbs from a live tree.

- i. Work slowly, keeping both hands on the chainsaw with a firm grip. Always make sure your footing is secure and your weight is distributed evenly on both feet.
- ii. Do not cut from a ladder, this is extremely dangerous. Leave this operation for professionals.
- iii. When pruning trees it is important not to make the finishing cut next to the main limb or trunk until you have cut off the limb further out to reduce the weight. This prevents stripping the bark from the main member.
- iv. Under buck the branch 1/3 through for your first cut.
- v. Your second cut should over buck to drop the branch off.
- vii. Now make your finishing cut smoothly and neatly against the main member so the bark will grow back to seat the wound.



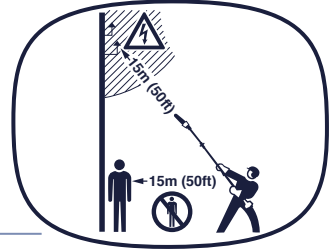
OPERATION

Keep the engine at full throttle the entire time you are cutting.

- Release the trigger as soon as the cut is completed, allowing the engine to run idle. If you run the pole pruner at full throttle without a cutting load, unnecessary wear or damage can occur to the chain, bar, and engine.



Warning! When working, maintain a safety distance of 15m from other people and from animals. The machine shall not be used in any position that causes any part to come within 10 m of overhead electrical lines.



3 Grass trimming

- Hold the trimmer with the right hand on the rear handle and the left hand on the front handle. Keep a firm grip with both hands while in operation.
- The trimmer should be held at a comfortable position.
- Always operate the trimmer at full throttle.
- Cut tall grass in a sweeping motion from the top down. This will prevent grass from wrapping around the shaft housing and the string head which may cause damage from overheating.
- If grass becomes wrapped around the string head, **STOP THE ENGINE**, disconnect the spark plug wire, and remove the grass. Prolonged cutting at half throttle will result in oil dripping from the muffler.

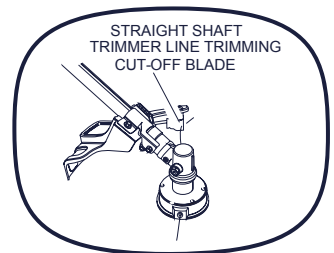


Extending the spool line

The string feed is controlled by tapping the trimmer head on the grass while running the engine at full throttle.

1. Run the engine at full throttle.
2. Tap the trimmer head on ground to release string. The string releases each time the spool retainer is tapped.
3. Do not hold the trimmer head on the ground.

NOTE: The line trimming cut-off blade on the grass guard will cut the line to the correct length. If the string is too short



OPERATION

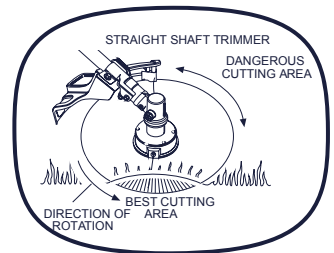
you may not be able to release the string by tapping the trimmer head on the ground. If so, stop the engine, and manually release the string, rewire or replace the spool.

To release the cutting line manually:

- Push the spool down while pulling on string(s) to manually release the string.

Cutting tips

- Keep the trimmer tilted towards the area being cut; this is the best cutting position.
- Move the trimming from left to right in a controlled swinging motion. This will avoid throwing debris at the operator. Avoid cutting in the dangerous area.
- Use the tip of string to do the cutting; do not force string head into uncut grass.
- Wire and picket fences cause extra string wear, even breakage. Stone and brick walls, curbs, and wood may wear string rapidly.
- Avoid trees and shrubs. Tree bark, wood moldings, siding, and fence posts can easily be damaged by the string.



Grass shield string limit blade

The trimmer is equipped with a string cut off blade on the grass guard. For best cutting, advance the string until it is trimmed to length. Advance the string whenever you hear the engine running faster than normal, or when trimming efficiency diminishes. This will maintain best performance and keep the string long enough to advance properly.

4 Brush cutting

Hold the brush cutter with the right hand on the rear handle and the left hand on the front handle.

Keep a firm grip with both hands while in operation. Brush cutter should be held at a comfortable position with the trigger handle about hip height. Maintain your grip and



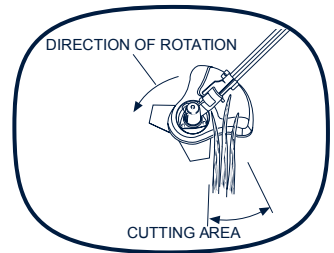
OPERATION

balance on both feet. Position yourself so that you will not be thrown off balance by the kickback reaction of the cutting blade.

Blade thrust

Exercise **extreme caution** when using the blade with this unit. Blade thrust is the reaction that may occur when the spinning blade contacts anything it cannot be cut. This contact may cause the blade to stop for an instant, and suddenly “thrust” the unit away from the object that was hit. This reaction can be violent enough to cause the operator to lose control of the unit.

Blade thrust can occur without warning if the blade snags, stalls, or binds. This is more likely to occur in areas where it is difficult to see the material being cut. For cutting ease and safety, approach the weeds being cut with the brush cutter, from the right to the left. In the event an unexpected object or woody stock is encountered, this practice could minimize the blade thrust reaction.



Blade

The blade is only suited for thicker weeds and pulpy stalks. When the blade becomes dull, it can be turned over to extend the life of the blade.

- Always hold the brush cutter on your right side with both hands when operating. Use a firm grip on both handles.
- Maintain your grip and balance on both feet. Position yourself so that you will not be thrown off balance by the kickback reaction of the cutting blade.
- Inspect and clear the area of any hidden objects such as glass, rocks, concrete, fencing, wire, wood, metal, etc.
- Never use blades near sidewalks, fencing, posts, buildings or other immovable objects.
- Never use a blade after hitting a hard object without first inspecting it for damage. Do not use if any

OPERATION

damage is detected.

- The unit is used as a scythe, cutting from the right to the left in a broad sweeping action from side to side.
 - Use only the manufacturer's blade. To install any other brand blade or cutting head to this brushcutter can result in serious personal injury. Replacements blades can be purchased from www.spearandjackson-power.com
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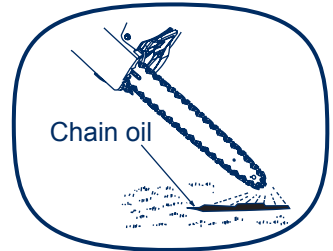
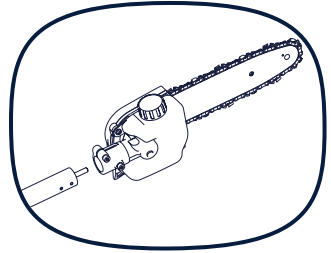
MAINTENANCE

Adding bar and chain lubricant

Use premium bar and chain lubricant.

NOTE: Lopper comes from the factory with no bar and chain oil added. The level should also be checked after every 20 minutes of use and refilled as needed.

- i. Disconnect the lopper from the power supply.
- ii. Remove oil reservoir cap.
- iii. Carefully pour the bar and chain lubricant into the tank.
- iv. Wipe off excess lubricant.
- v. Check and fill the oil tank when quick view oil indicator is below the MIN indicator line.
- vi. Repeat as needed.
- vii. Switch on the chainsaw pointing it at the ground without touching!
- viii. If an oil trace can be seen, the chainsaw is lubricating.



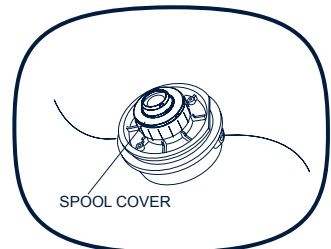
NOTE: Do not use dirty, used, or otherwise contaminated lubricants. Damage may occur to the bar or chain.

NOTE: It is normal for oil to seep from the saw when not in use. To prevent seepage, empty the oil tank after each use then run for one minute. When storing the unit for a long period of time (three months or longer) be sure the chain is lightly lubricated; this will prevent rust on the chain and bar sprocket.

Spool replacement

For string only replacement, refer to "String Replacement" later in this manual.

1. Stop the engine, disconnect the spark plug wire. Hold the trimmer head and unscrew the spool retainer. Turn the spool retainer counterclockwise.
2. Remove the empty spool from the trimmer head. Keep the spring attached to the spool.
3. To install the new spool, make sure the two strings are captured in the slots opposite each other on the new spool. Make sure the ends of each string is extended

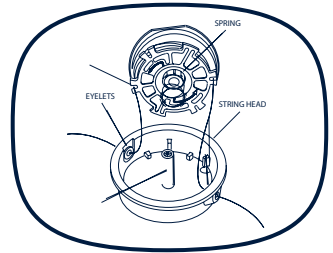


MAINTENANCE

- approximately 6 in. (152 mm) beyond each slot.
- Thread the strings into each of the eyelets in the string head. Carefully push the spool into the string head (gently pull the strings to the outside if necessary). When the spool is positioned in the trimmer head, pull the strings sharply to release them from the slots in the spool.
 - Push down and turn the spool counterclockwise until it no longer turns. Hold the spool down and rotate a little clockwise. Release the spool. The spool should be locked down in the trimmer head. If not, hold down and rotate until locked.
 - Make sure the trimmer head and the spool retainer are installed on the drive shaft.

To install the spool retainer:

- Turn the spool retainer clockwise.
- Pull the strings again to rotate the spool into cutting position. Push the spool retainer down while pulling on string(s) to manually advance the string and to check for proper assembly of the string head.

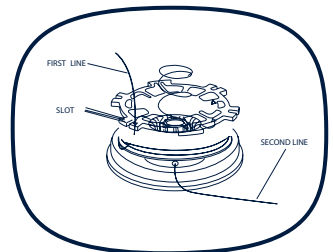
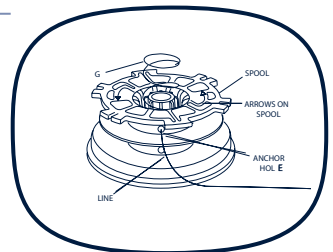


String replacement

Use only monofilament string. Use original manufacturer's replacement string for best performance.

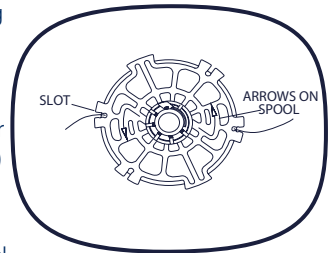
String Diameter: - 2.0 mm. Replacement string and spools can be purchased from www.spearandjackson-power.com

- Stop the engine, disconnect the spark plug. Hold the string head and unscrew the spool retainer. To remove the spool retainer: Turn the spool retainer counterclockwise.
- Remove the spool from the string head. Keep the spring attached to the spool and remove any old string remaining on the spool.
- Cut 1 piece of string, each being approximately 20ft. (5 m) long.



MAINTENANCE

4. Insert the string into the slot in the spool. Wind the string around the 2 slots of the spool counterclockwise, as shown by the arrows on the spool. Place string in the slot on upper/bottom spool flange, leaving about 6in. (152 mm) extended beyond the slot. Do not overfill. After winding the string, there should be at least 1/4in. (6 mm) between the wound string and the outside edge of the spool.
5. Replace the spool and the spool retainer. Refer to “Spool Replacement” earlier in this manual.

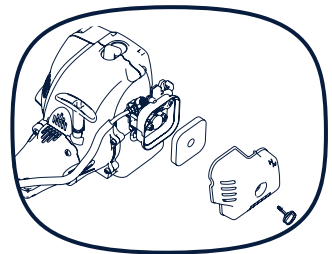


Warning! Before any maintenance, always switch off the engine and disconnect the spark plug.

Replacing and cleaning air filter

For proper performance and long life, keep the air filter clean.

1. Remove the air filter cover by unscrewing the wing screw.
2. Remove the filter, clean it in warm soapy water. Rinse and let it dry completely. For best performance, replace annually.
3. Reinstall the filter.
4. Replace the air filter cover by inserting the tabs on the bottom of the cover into the slots on the air filter base; push the cover up and tighten the wing screw securely in place.



Storage

1. Never transport the unit with petrol in the engine. Drain all fuel for storage over periods longer than one month.
2. Drain all fuel from the tank into an appropriate container and dispose of at your local recycling scheme. Run the engine until it stops. Clean the attachments with a dry cloth. Store it in a well-ventilated place that is inaccessible to children.

MAINTENANCE

3. Keep away from corrosive agents such as garden chemicals and de-icing salts.
4. Abide by all ISO and local regulations for the safe storage and handling of petrol.



Warning! Use only original manufacturer's replacement parts, accessories and attachments. Failure to do so can cause poor performance, possible injury and may void your warranty. You can often make adjustments and repairs described here. For other repairs, call the after sales service to guide you further.

TECHNICAL DATA

PRUNER:

Weight chainsaw with empty fuel tank	5.84 kg
Oil tank volume	120cm ³
Cutting length	200mm
Type of chain	Oregon91P033
Type of chain bar	Oregon 080SDEA318
Max. engine speed with pruner attachment	10000min ⁻¹

BRUSH CUTTER AND GRASS TRIMMER

Unit without cutting attachment, empty tank	5.74 kg
Cutting width	200mm(brush cutter) / 450mm(grass trimmer)
Max. engine speed with cutting attachment	10000(brush cutter)
	8500(grass trimmer)
Cutting attachment max RPM	7400(brush cutter)
	6300(grass trimmer)

HEDGE TRIMMER

Weight hedge trimmer with attachment and empty fuel tank	7.1 kg
Cutting length	400mm
Max. engine speed with hedge trimmer attachment	10000min ⁻¹

TECHNICAL DATA

ENGINE:

Engine type	1E36F/SUMEC
Weight of the engine unit	4.2 kg
Fuel tank volume	410 cm ³
Engine speed	10000min ⁻¹
Engine idling speed	<3400min ⁻¹
Engine speed with cutter running	>4300min ⁻¹
Engine displacement	29.9 cm ³
Maximum shaft brake power of the engine	0.75 kW
Fuel ratio	40:1

Sound pressure level LPA (dB)	100 dB(A) K=3dB(A)
Sound power level LWA (dB)	114dB(A)
Vibration	15 m/s ² K=1.5m/s ²

TROUBLESHOOTING

Failure	Cause	Removal
Engine not starting	<ol style="list-style-type: none"> 1. Run out of fuel mixture 2. Flooded engine 3. Fouled spark plug (remains of carbon on the electrodes) electrodes too far away 4. Fouled carburettor or its jets 5. Damaged spark plug connection or damaged spark plug 6. None of the above 	<ol style="list-style-type: none"> 1. Fill up 2. Close the throttle, start for several times, if necessary take out the spark plug and dry it 3. Clean the spark plug, check its temperature, replace if faulty. Adjust at 0.6-0.7 mm 4. Clean the carburettor with air 5. Replace 6. call the help desk at 01904 727505
Engine runs too fast when idle	Cold engine	Warm up slowly
Engine does not reach its maximal capacity	<ol style="list-style-type: none"> 1. Fouled spark plug (remains of carbon on the electrodes) electrodes too far away 2. Fouled carburettor or its jets 3. Fouled air filter 4. Exhaust, exhaust channel 5. Sealing ring in crankcase not sealing properly 6. Worn cylinders, pistons and piston rings 7. Wrong fuel mix (too much oil) 8. Bad ignition 	<ol style="list-style-type: none"> 1. Clean the spark plug, check its temperature, replace if needed. Adjust at 0.6-.07mm. 2. Clean the carburettor with air 3. Clean the air filter 4. Take it to service centre for repair. 5. Replace sealing ring 6. Call helpdesk at 01904 727505 7. Fill up according to the instructions 8. Call the helpdesk at 01904 727505
Engine would not stop	<ol style="list-style-type: none"> 1. Spark plug is light grey with signs of heating (heating drops) 2. Remains of carbon in the combustion area 	<ol style="list-style-type: none"> 1. Install a spark plug with a higher thermal value 2. Call the help desk 01904 727505

GUARANTEE

If your device develops a fault, please don't hesitate to contact our customer service department on 01904 727505, we can usually solve 80% of problems via telephone.

1. These guarantee terms cover additional guarantee rights and do not affect your statutory warranty rights. All our products are covered by a two year manufacturer guarantee unless this product was registered within 28 days of purchase via www.spearandjackson-power.com and therefore obtained an additional 12 month warranty.

2. Claims must be accompanied by a Proof of Purchase. This must be in the form of a Sales receipt or Bank statement and must show that the product has been purchased within the guarantee period as described under point 1, from the retailer that it was originally bought from.

Please keep your receipt safe or staple it to the back of this manual for future reference.

3. Our guarantee covers problems caused by material or manufacturing defects, and will result in the repair of these defects or replacement of the device with a like for like or similar article.

4. Our devices have not been designed for commercial, trade or industrial applications, any signs of use of the equipment in these application or equivalent activities, invalidates the guarantee.

5. The following are also excluded from our guarantee:

A. Faults due to accidents, customer misuse or unauthorized repairs

B. Consumable Parts such as chain, bar, spools, blades, guards, harnesses and other parts that are subject to wear and tear through usage and accessories.

C. Failure due to lack of routine maintenance.

D. Failure as a result of not using the equipment in accordance with the manual and safety instructions

E. The adjustment of cables, drives gears or motors.

Guarantee claims should be submitted before the end of the guarantee period, see point 1, but a paid service exists for repairs commissioned after this period. The original guarantee period remains applicable to the device even if repairs are carried out or parts are replaced. In such cases, the work performed or parts fitted will not result in an extension of the guarantee period, and no new guarantee will become active for the work performed or parts fitted.

6. Please keep your sales receipt in a safe place. If covered by our guarantee, your device will either be repaired under the terms of guarantee or we will send you a replacement device.

This device may be re-conditioned, like for like or an upgraded replacement.

If you have any problems or questions concerning your garden power tool, please contact our after sales service at 01904 727505 or visit www.spearandjackson-power.com.

EC DECLARATION

Declaration of Conformity

We

SUMEC Hardware &Tools Co.,Ltd.

1# XinghuoRoad, Nanjing, China

And our branch office

Sumec UK Co. Ltd

Unit A&B, Escrick Business Park,

Escrick, York.

YO19 6FD

Declare that the product

Petrol multiple tools

basic function: pole-mounted pruner; optional functions: hedge trimmer, grass trimmer, brush cutter

Model No: MT299

Cert. no.: TJB30

Complies with the essential health and safety requirements of the following directives:

2014/30/EU ----EMC Directive

2006/42/EC ----Machinery Directive

2000/14/EC and 2005/88/EC ---- Outdoor Noise Directive

97/68/EC AS AMENDED BY 2012/46/EU ---- Emission Directive

Standards and technical specification eferred to :

EN ISO 11680-1:2011, EN ISO 11806-1:2011,

EN ISO 10517:2009 , EN ISO14982:2009

Measured sound power level Max.109.6 dB(A)

Guaranteed sound power level 114 dB(A)

Conformity assessment method to Annex V/ Directive 2000/14/EC and 2005/88/EC

EC type approval to 2006/42/EC 12SHW2221-03. Intertek Deutschland GmbH (NB 905)

Authorized Signatory

Date: _2016-03-31_____

Signature: _____  _____

Name:

General Manager

SUMEC Hardware and tools co. ltd.