# CHALLENGE

## Petrol Hedge Trimmer

**6044644**
**(Model: YT9305-01)**

**Original Manual**

After Sales Support
UK/Ireland
0333 300 1614



challenge®

WARNING 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 0333 300 1614.

# CONTENTS

GENERAL SAFETY WARNINGS.....3
SYMBOLS ..... 6
DIAGRAM.....8
PARTS LIST.....9
INTENDED USE .....9
PREPARATION .....10
OPERATION.....15
CLEANING AND MANTENIANCE .....20
TECHNICAL DATA.....28
TROUBLESHOOTING .....29
DISPOSAL .....30
GETTING HELP .....30
GUARANTEE ..... 31

## GENERAL SAFETY WARNINGS



**WARNING! Read all safety warnings and all instructions in this manual carefully.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury. **Save all warnings and instructions for future reference.**

**WARNING! Long-term exposure to noise can result in permanent hearing impairment. So always use approved hearing protection.**

**WARNING! Under no circumstances may the design of the machine be modified without the permission of the manufacturer. Always use genuine accessories. Non-authorized modifications and/or accessories can result in serious personal injury or the death of the operator or others.**

**IMPORTANT!**
Incorrect or careless use of a hedge trimmer can turn it into a dangerous tool that can cause serious or even fatal injury. It is extremely important that you read and understand the contents of this operator's manual.
You must use approved personal protective equipment whenever you use the machine. Personal protective equipment cannot eliminate the risk of injury but it will reduce the degree of injury if an accident does happen. Ask your call center for help in choosing the right equipment.

- Become familiar with the owner's manual before attempting to operate the equipment.
- The machine is only designed for cutting branches and twigs.
- Never use a machine that has been modified in any way from its original specification.
- Never use the machine if you are tired, if you have drunk alcohol, or if you are taking medication that could affect your vision, your judgment or your co-ordination.
- Wear personal protective equipment. See instructions under the heading "Personal protective equipment".
- Never use the machine in extreme weather conditions such as severe cold, very hot and/or humid climates.
- Never use a machine that is faulty. Carry out the checks, maintenance and service instructions described in this manual. Some maintenance and service measures must be carried out by trained and qualified specialists. See instructions under the heading Maintenance.
- All covers and guards must be fitted before starting. Ensure that the spark plug cap and ignition lead are undamaged to avoid the risk of electric shock.

## GENERAL SAFETY WARNINGS

THIS HEDGE TRIMMER CAN CAUSE SERIOUS INJURIES. Read the instructions carefully for the correct handling, preparation, maintenance, starting and stopping of the hedge trimmer. Become familiar with all controls and the proper use of the hedge trimmer.

- Never allow children to use the hedge trimmer.
- Beware of overhead power lines.
- Avoid operating while people, especially children, are nearby.
- Dress properly! Do not wear loose clothing or jewellery, which can be caught in moving parts. Use of sturdy gloves, non-skid footwear and safety glasses is recommended.
- Use extra care when handling petrol. They are flammable and the vapors are explosive. The following points should be observed.

-Use only an approved container.

-Never remove the fuel cap or add petrol with the power source running. Allow engine and exhaust components to cool down before refuelling.

-Do not smoke.

-Never refuel indoors.

-Never store the hedge trimmer or fuel container inside where there is an open flame, such as near a water heater.

-If petrol is spilled, do not attempt to start the power source, but move the hedge trimmer away from the spillage before starting.

-Always replace and securely tighten the fuel cap after refuelling.

-If the fuel tank is drained, this should be done outdoors.

- Warn of the need for ear protection.
- Warn of the need for eye protection.
- In an emergency switch the product off by immediately releasing the throttle control and setting the ignition switch to its off position "STOP".
- Stop the engine before cleaning ,checking, carrying out maintenance or working on the hedge trimmer,
- Ensure that the hedge trimmer is correctly located in a designated working position before starting the engine.
- While operating the hedge trimmer, always ensure that the operating position is safe and secure, especially when using steps or a ladder.
- Do not operate the hedge trimmer with a damaged or excessively worn cutting device.
- To reduce fire hazards, keep the engine and silencer free of debris, leaves and excessive lubricant.
- Always ensure that all handles and guards are fitted when using the hedge trimmer. Never attempt to use an incomplete hedge trimmer or one fitted with an unauthorized modification.

## GENERAL SAFETY WARNINGS

- Always use two hands to operate a hedge trimmer fitted with two handles.
- Always be aware of your surroundings and stay alert for possible hazards of which you may not be aware due to the noise of the hedge trimmer.
- When the hedge trimmer is stopped for servicing, inspection or storage, shut off the power source, disconnect the spark plug wire from the spark plug and make sure all moving parts have come to a stop. Allow the hedge trimmer to cool before making any inspections, adjustments, etc.
- Store the hedge trimmer where the petrol vapor will not reach an open flame or spark. Always allow the hedge trimmer to cool down before storing.
- When transporting or storing the hedge trimmer, always fit the cutting device transport guard.

**WARNING! Listen out for warning signals or shouts when you are wearing hearing protection. Always remove your hearing protection as soon as the engine stops.**

**WARNING! Running an engine in a confined or badly ventilated area can result in death due to asphyxiation or carbon monoxide poisoning.**

**WARNING! Faulty blades can increase the risk of accidents.**

## SYMBOLS

**IMPORTANT: Some of the following symbols may be used on your tool. Be sure to study them and learn their meaning. Proper interpretation of these symbols will allow you to use the machine more effectively and reduce the risk of accident.**



**WARNING! Incorrect or careless use of a hedge trimmer can turn it into a dangerous tool that can cause serious or even fatal injury. It is extremely important that you read and understand the contents of this operator's manual.**



Please read the operator's manual carefully and make sure you understand the instructions before using the machine.



Always wear: Approved hearing protection and approved eye protection

CE

This product is in accordance with applicable EC directives.

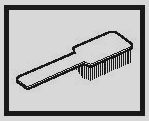


Always wear approved protective gloves.
Wear sturdy, non-slip boots or shoes.




Noise emission to the environment according to the European Community's Directive. The machine's emission is specified in chapter Technical data and on label. Other symbols/decals on the machine refer to special certification requirements for certain markets.

## SYMBOLS



Regular cleaning is required.



Always use clean, fresh unleaded petrol.




Switch off the engine by moving the stop switch to the STOP position before carrying out any checks or maintenance.



Push primer bulb, fully and slowly, 8-10 times.



Refer to operator's manual for the proper type of oil.



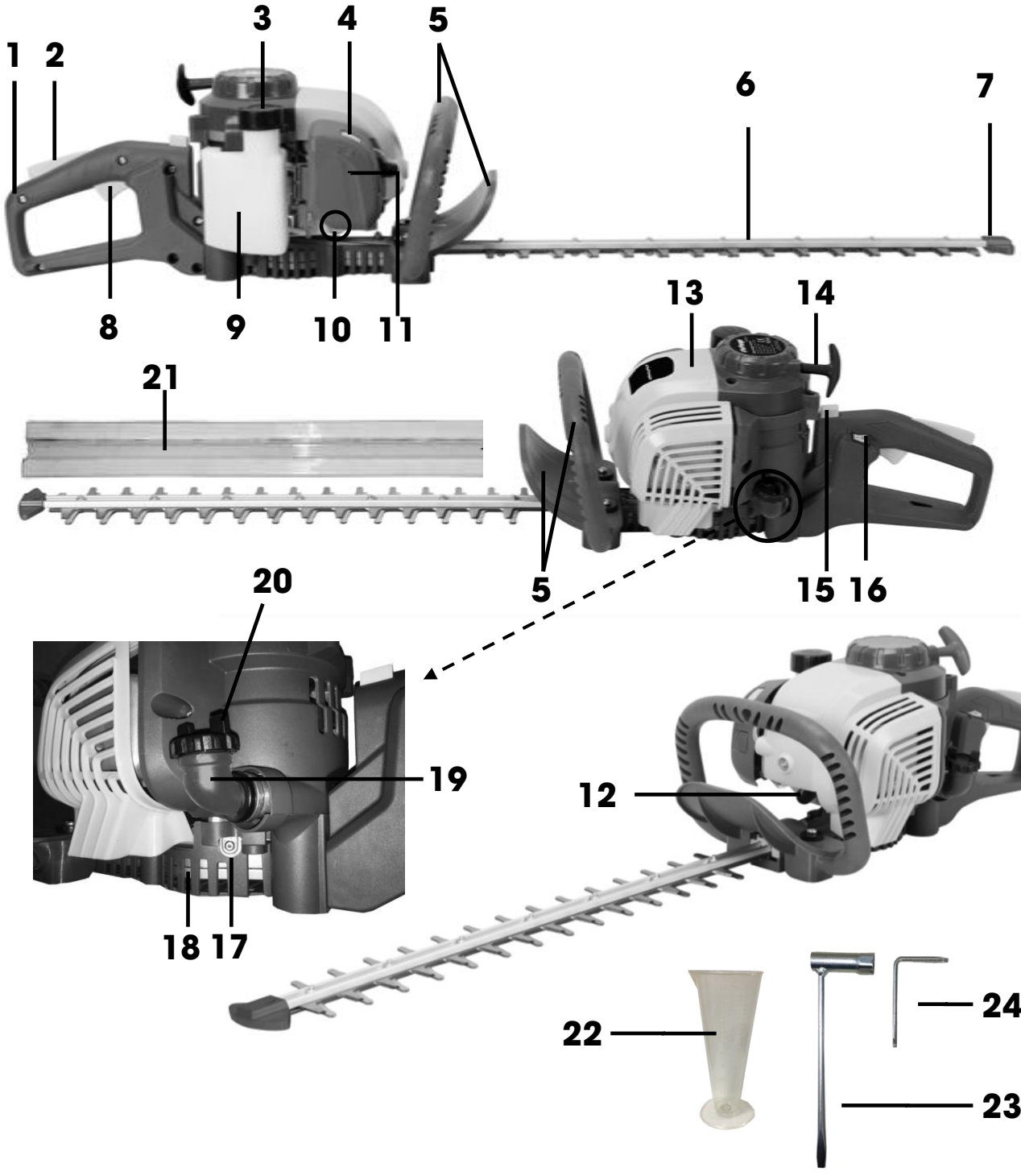
WARNING: Do not touch a hot muffler or cylinder.
You may got burned. These parts get extremely hot from operation. When turned off they remain hot for a short time.



Set the choke button in the choke position.

## DIAGRAM

Fig. A



## PARTS LIST

**(See Fig. A)**

1. Rear handle
2. Throttle lockout
3. Fuel tank cap
4. Choke button
5. Front handle/safety guard (integrated)
6. Cutting blade
7. Tip protector
8. Throttle control
9. Fuel tank
10. Primer bulb
11. Air filter cover
12. Spark plug with cap
13. Cylinder housing
14. Recoil Starter
15. Lock button for rotary handle
16. ON/OFF switch
17. lubrication nipple for gearbox
18. Gear box
19. Oil elbow
20. Oil cap
21. Blade cover
22. Oil measuring cup
23. Spanner for spark plug
24. Key for screws on the machine

Remark: Above are all assembled in the standard delivery. 22, 23, 24 are the accessories.

## INTENDED USE

This petrol hedge trimmer is designated with an engine displacement of 26.5 cc .
The product is intended for trimming hedges, bushes and shrubs. Observe the technical data for the maximum cutting capacity. Do not cut branches exceeding the stated maximum capacity. This product is intended for private use only, not for any commercial applications. It may not be used for any purposes other than those described.

# PREPARATION

## Unpack

> Unpack all parts and lay them on a flat, stable surface.
> Remove all packing materials and shipping devices if applicable.
> Make sure the delivery contents are complete and free of any damage. If you find that parts are missing or show damage do not use the product but contact call center. Using an incomplete or damaged product represents a hazard to people and property.
> Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

**Note: you will need below (items not supplied):**
> Fuel (unlead petrol)
> 4-stroke engine oil
> Soft cloth (optional for cleaning)

## Using the right engine oil

**CAUTION!** Lubricant has a major influence on engine performance and service life. The machine is equipped with a 4-stroke engine and must always been run using 4-stroke engine lubricant. Use high-quality oil. DO NOT fill the used oil. Failure to use clean oil of the correct type can cause premature engine wear and failure.
**WARNING!** Do not change engine lubricant while it is hot. Accidental contact with hot engine lubricant could result in serious burns.
**NOTE:** This unit was shipped without oil in the crankcase. Oil must be added before starting the unit.

**Attention:** Must use API SF grade or the higher grade SAE 10W-30 lubricating oil (four stroke lubricating oil for the engine of car);

**WARNING: OVERFILLING THE CRANKCASE MAY CAUSE SERIOUS PERSONAL INJURY.**

**NOTE: Check the oil level before each use.**

1. **When the machine is filled with oil for the first time, you must use the oil measuring cup (22) to fill 60ml, then open the oil cap (20) and fill the oil into the oil tank of machine. (see Fig. B)**
2. **When the machine is used again after the first time, check the oil as always before use. Ensure the oil level is always close to the full position visually (see Fig. C). Either Insufficient oil or overfilled oil both causes the malfunction of machine.**

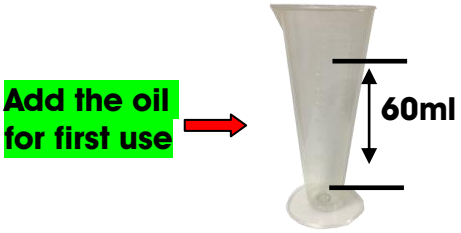


Fig. B



Fig. C

# PREPARATION

## Using the right engine oil (continued)

For best performance, engine lubricant should be changed entirely after every 25 hours of operation. Please pour out all the oil and refill the new lubricating oil instead.

**NOTE: Never add oil to the fuel tank. This unit has 4- stroke engine. DO NOT mix oil with petrol.**

## Using the right petrol

The use of old petrol is the most common cause of performance problems. Use only fresh, clean unleaded petrol.

**CAUTION!** Use low-emission petrol, also known as alkylate petrol, if it is available.
The lowest octane recommended is 90 (RON). If you run the engine on a lower octane grade than 90 so-called knocking can occur. This gives rise to a high engine temperature, which can result in serious engine damage.
When working at continuous high revs a higher octane rating is recommended.

**NOTE: Do not use E15 or E85 petrol (or petrol containing greater than 10% ethanol) in this product. It is a violation of federal law and will damage the unit.**

## Petrol safety

Transport and storage
•Store and transport the machine and petrol so that there is no risk of any leakage or fumes coming into contact with sparks or naked flames, for example, from electrical machinery, electric motors, electrical relays/switches or boilers.
•When storing and transporting petrol always use approved containers intended for this purpose.
•When storing the machine for long periods the fuel tank must be emptied. Contact your local petrol station to find out where to dispose of excess petrol.
•Ensure the machine is cleaned and that a complete service is carried out before long-term storage.
•The transport guard must always be fitted to the cutting attachment when the machine is being transported or in storage.
•Secure the machine during transport.

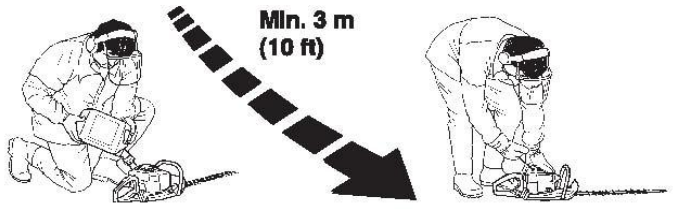
**WARNING!** Petrol and petrol fumes are highly inflammable and can cause serious injury when inhaled or allowed to come in contact with the skin. For this reason observe caution when handling petrol and make sure there is adequate ventilation.

**WARNING!** Take care when handling petrol. Bear in mind the risk of fire, explosion and inhaling fumes.

# PREPARATION

## Fuelling

**WARNING!**
•Always shut off engine before fueling. Never add petrol to a machine with a running or hot engine.
•Move at least 30 ft. from refueling site before starting engine.
•Do not smoke and stay away from open flames and sparks. Failure to safely handle petrol could result in serious personal injury.
•Never start the machine if you have spilt petrol on it. Wipe off the spillage and allow remaining petrol to evaporate.
•If the machine is leaking petrol. Check regularly for leaks from the fuel cap and fuel lines.
•Always use a fuel container with an anti-spill valve.
•Clean the area around the fuel cap. Contamination in the tank can cause operating problems.
•When refuelling, open the fuel cap slowly so that any excess pressure is released gently.
•Tighten the fuel cap carefully after refuelling.
•Always move the machine away from the refuelling area before starting.




Fuelling the unit according to the following procedure:
1. Position the unit with the fuel cap facing up.
2. Remove the fuel cap.
3. Place the fuel container spout into the fill hole on the fuel tank and fill the tank.

**NOTE:** Do not overfill the tank.

4. Wipe up any petrol that may have spilled.
5. Reinstall the fuel cap.
6. Move the unit at least 30 ft. (9.1 m) from the fuel container and the fueling site before starting the engine.

## Starting/stopping the machine

### Check before starting

•Inspect the working area. Remove any objects that could be thrown out.
•Check the cutting attachment. Remove the blade cover before use and never use blades that are dull, cracked or damaged.
•Check that the machine is in perfect working order. Check that all nuts and screws are tight.

# PREPARATION

## Starting/stopping the machine (continued)

•Make sure the gear housing is lubricated correctly. See instructions under the heading Gear housing.
•Check that the cutting attachment always stops when the engine is idling.
•Only use the machine for the purpose it was intended for.
•Make sure that the handle and safety features are in good working order. Never use a machine that lacks a part or has been modified outside its specifications.
•All covers must be correctly fitted and undamaged before you start the machine.
Starting and stopping

**WARNING!** The complete clutch cover and gear housing must be fitted before the machine is started, otherwise the clutch may come loose and cause personal injury.
Always move the machine about 3 metres from the refuelling position before starting. Place the machine on a firm surface. Remember that the blades may start to move when the engine is started. Make sure the blades cannot come into contact with any object. Make sure that no unauthorised persons are in the working area, otherwise there is a risk of serious personal injury. The safety distance is 15 metres.

## Cold engine

- Check the oil level before use.
- Fill the fuel tank.
- Press the on/off switch (16) to the position "I". (Fig. D)
- Press the choke button (4) in the full choke position. (Fig. E)
- Press the primer bulb (10) repeatedly 8-10 times until petrol begins to fill the bulb. (Fig. F)

- Quickly pull the recoil starter handle (14) 3-5 times. (Fig. G)

**Note:** Hold the body of the machine on the ground using your left hand. Grip the starter handle, slowly pull out the cord with your right hand until you feel some resistance, now quickly and powerfully pull the cord. Never twist the starter cord around your hand.

- Squeeze the throttle trigger (Fig. H) to make the choke button come back to the run position. Quickly pull the recoil starter handle (14) until the engine runs.
  **Note:** the choke button will automatically come back to the run position while you squeezing the throttle trigger.
  If the engine does not run, please repeat above steps.
- Allow the engine to run for 10 seconds and now you can use the machine.

**CAUTION!** Do not pull the starter cord all the way out and do not let go of the starter handle when the cord is fully extended. This can damage the machine.

# PREPARATION

## Cold engine (continued)



**Fig. D**



**Fig. E**



**Fig. F**



**Fig. G**



**Fig. H**

## Warm engine

- Check the oil level before use.
- Make sure there is enough fuel in the fuel tank.
- Press the on/off switch (16) to the position "I". (Fig. D)
- Quickly pull the recoil starter handle (14) until the engine runs. (Fig. G)

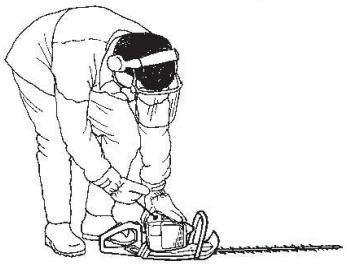
Hold the body of the machine on the ground using your left hand (**CAUTION!** Not with your foot!). Grip the starter handle, slowly pull out the cord with your right hand until you feel some resistance (the starter pawls grip), now quickly and powerfully pull the cord. Never twist the starter cord around your hand.

**Caution! Never press the choke button (4) when you start the warm engine.**

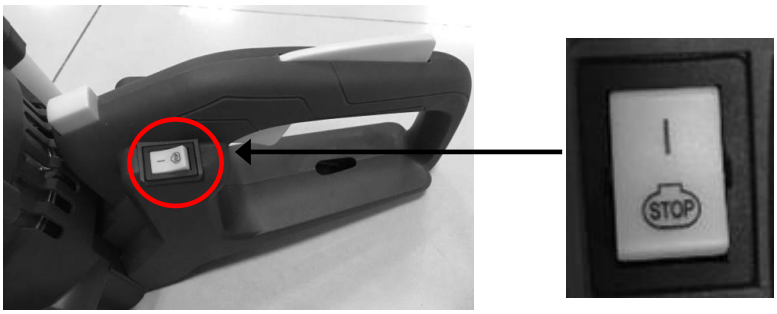
# PREPARATION

## Starting/stopping the machine (continued)

**CAUTION!** Do not pull the starter cord all the way out and do not let go of the starter handle when the cord is fully extended. This can damage the machine.



**Stopping**
The engine is switched off by moving the stop switch to the stop position.



# OPERATION

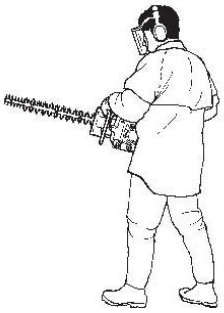
**WARNING!** The machine can cause serious personal injury. Read the safety instructions carefully. Learn how to use the machine.
**WARNING!** Do not touch the tool without first switching off the engine.

**Safety instructions regarding the surroundings**
•Never allow children to use the machine.
•Ensure that no-one comes closer than 15 m while you are working.
•Never allow anyone else to use the machine without first ensuring that they have understood the contents of the operator's manual.
•Never work from a ladder, stool or any other raised position that is not fully secured.



•Keep in mind that the operator is responsible for accidents or hazards occuring to other people or their property.

**Safety instructions while working**
•Always ensure you have a safe and stable working position.
•Always use both hands to hold the machine. Hold the machine in front of your body.
•Make sure that your hands and feet do not come near the cutting attachment when the engine is running.

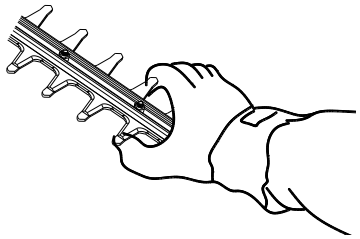




# OPERATION

•When the engine is switched off, keep your hands and feet away from the cutting attachment until it has stopped completely.
•Watch out for stumps of branches that can be thrown out during cutting.
•Do not cut too close to the ground. Stones and other objects can be thrown out.
•Check the working area for foreign objects such as electricity cables, insects and animals, etc, or other objects that could damage the cutting attachment, such as metal items.
•If any foreign object is hit or if vibrations occur stop the machine immediately. Disconnect the HT lead from the spark plug. Check that the machine is not damaged. Repair any damage.
•If anything jams in the blades while you are working, switch off the engine and wait until it has stopped completely before cleaning the blades. Disconnect the HT lead from the spark plug.

**Safety instructions after completing work**
•The transport guard should always be fitted to the cutting attachment when the machine is not in use.
•Make sure the cutting attachment has stopped before cleaning, carrying out repairs or an inspection. Disconnect the HT lead from the spark plug.
•Always wear heavy-duty gloves when repairing the cutting attachment. This is extremely sharp and can easily cause cuts.



•Store the machine out of reach of children.
•Use only original spare parts for repairs.

**Basic working techniques**
•Work with a swinging action from the bottom upwards when trimming sides.
•Adjust the throttle setting to suit the load.
•When trimming a hedge the engine should always face away from the hedge.
•Hold the machine as close to your body as possible to get the best balance.
•Make sure that the tip does not touch the ground.
•Do not rush the work, but work steadily until all the branches have been cut back cleanly.

# OPERATION

## Cutting

> Adjust the handle so that it fits the intended cut and start the product as described.
> Cut and remove branches exceeding the cutting capacity of this product using a proper pruner before operation.
> Move the cutting device lightly through the cutting surface in a sweeping motion following the shape of the hedge or shrub. A slight tilt downwards of the cutting device in the direction of motion is recommended for optimum cutting performance.
> Do not to rush and do not attempt to cut too much with one stroke of the cutting device.
> First cut both sides from the bottom cutting upwards to the top. This will prevent any of the cuttings falling into the path of the area still to be cut (Fig. I).
> After cutting the sides proceed to the top (Fig. J).

**NOTE:** Try to keep the cutting device angled at approximately 15  to the cutting surface.

> Cut in a number of stages if the area being cut is particularly long to achieve a better result; smaller cuttings will allow for easy composting.

**NOTE:** When shaping it is advisable to achieve a trapezoidal shape (Fig. K). This is where the bottom is wider than the top. A trapezoidal cut corresponds to the natural growth of plants and results in optimal hedge growing, as it will expose more light to the lower end of the hedge.

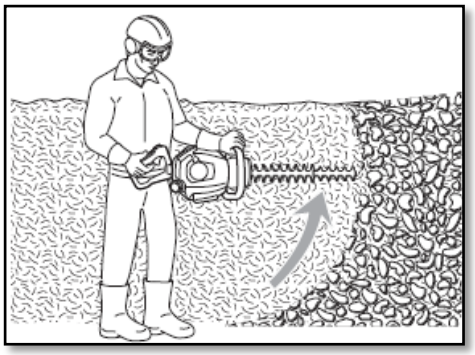


**Fig. I**

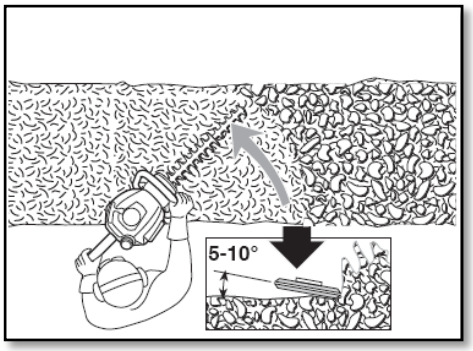



**Fig. J**



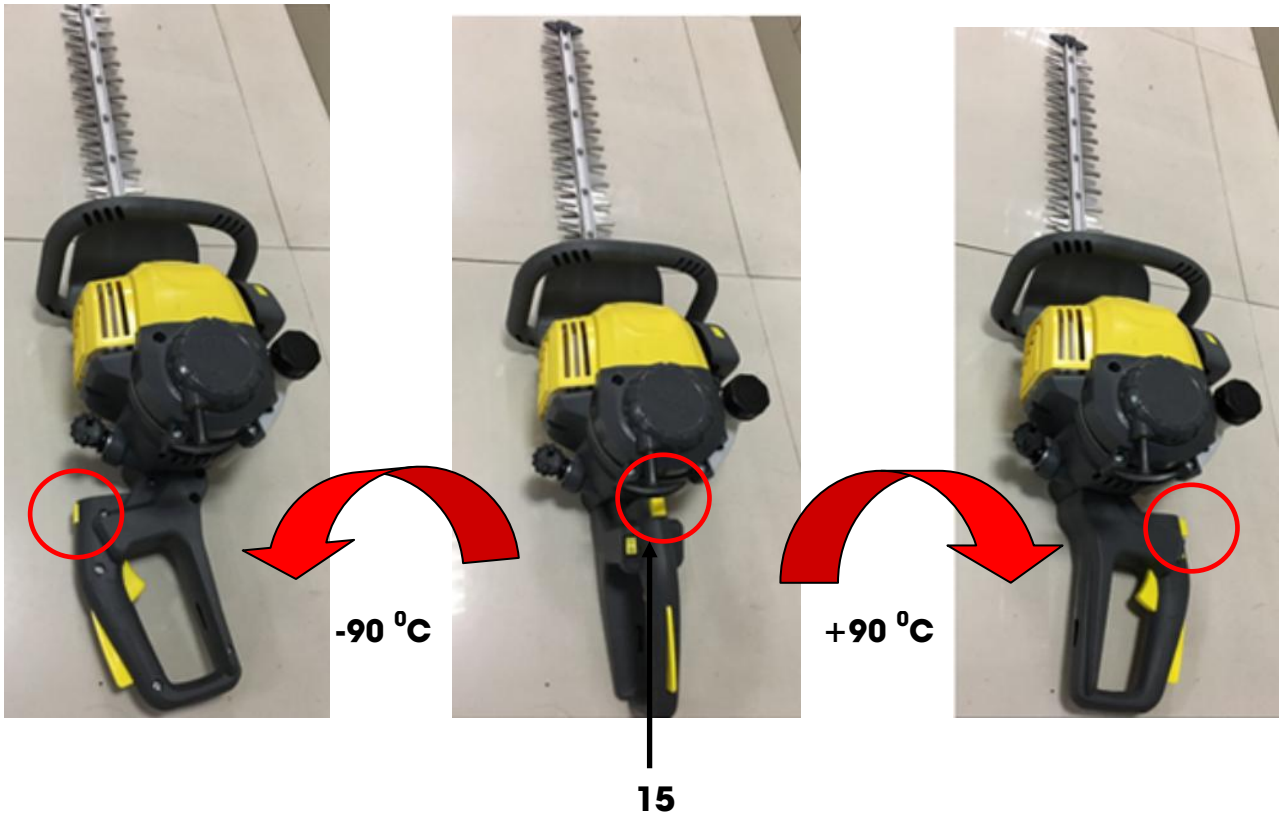
**Fig. K**

# OPERATION

## Rotary handle

•The hedge trimmer's rear handle can be set in three positions by press down the button on the handle (15). See figure below.
When the handle is adjusted the hedge trimmer should be idling or not running.

•While working the handle should always be facing upwards irrespective of how the hedge trimmer is directed



# CLEANING AND MAINTENANCE

**IMPORTANT!** All servicing and repair work on the machine requires special training. This is especially true of the machine's safety equipment. If your machine fails any of the checks described below you must contact the call center by dialing helpline number.

**WARNING!** Never use a machine with faulty safety equipment. The machine's safety equipment must be checked and maintained as described in this section. If your machine fails any of these checks contact the call center to get it repaired.

## Throttle lockout

The throttle lockout is designed to prevent accidental operation of the throttle control. When you press the lockout (2) (i.e. when you grasp the handle) it releases the throttle control (8). When you release the handle, the throttle control and the throttle lockout both move back to their original positions. This movement is controlled by two independent return springs. This arrangement means that the throttle control is automatically locked at the idle setting.

Make sure the throttle control is locked at the idle setting when the throttle lockout is released.

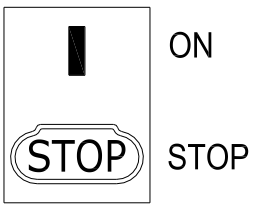



Press the throttle lockout and make sure it returns to its original position when you release it.

Check that the throttle control and throttle lockout move freely and that the return springs work properly.
See instructions under the heading Start. Start the hedge trimmer and apply full throttle. Release the throttle control and check that the blades stop and remain stationary.
If the blades move when the throttle control is in the idle position then the carburetor idle setting must be adjusted.

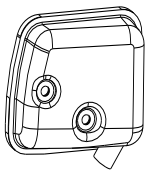
## Stop switch

Use the stop switch to switch off the engine.
Start the engine and make sure the engine stops when you move the stop switch to the stop setting.

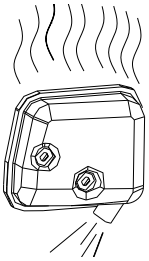


# CLEANING AND MAINTENANCE

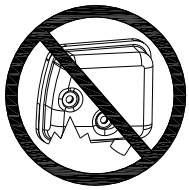
## Muffler



The muffler is designed to keep noise levels to a minimum and to direct exhaust fumes away from the user.



For mufflers it is very important that you follow the instructions on checking, maintaining and servicing your machine.
Never use a machine that has a faulty muffler.



**WARNING!** The exhaust fumes from the engine are hot and may contain sparks which can start a fire. Never start the machine indoors or near combustible material!

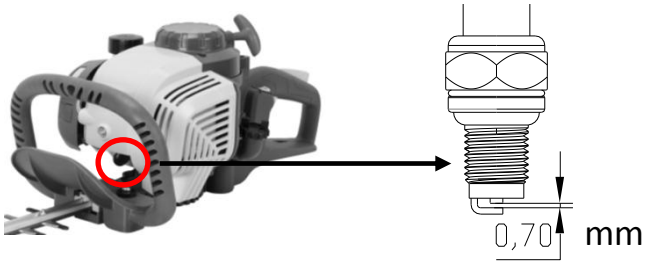
**WARNING!** The inside of the muffler contain chemicals that may be carcinogenic. Avoid contact with these elements in the event of a damaged muffler.

**CAUTION!** The muffler is designed to reduce the noise level and to direct the exhaust gases away from the operator. The exhaust gases are hot and can contain sparks, which may cause fire if directed against dry and combustible material.

# CLEANING AND MAINTENANCE

## Spark plug

The spark plug condition is influenced by:
•Incorrect carburettor adjustment.
•An incorrect petrol
•A dirty air filter.
These factors cause deposits on the spark plug electrodes, which may result in operating problems and starting difficulties.
If the machine is low on power, difficult to start or runs poorly at idle speed: always check the spark plug first before taking any further action. If the spark plug is dirty, clean it and check that the electrode gap is 0.7 mm. The spark plug should be replaced after about a month in operation or earlier if necessary.




**CAUTION!** Always use the recommended spark plug type! Use of the wrong spark plug can damage the piston/cylinder.
**NOTICE:** Be careful not to cross-thread the spark plug. Cross-threading will seriously damage the product.
1. Stop the engine and allow it to cool. Grasp the spark plug boot firmly and pull it from the spark plug.
2. Clean around the spark plug. Remove the spark plug from the cylinder head with a 5/8-inch socket, turning counterclockwise.

**WARNING:** Do not sand blast, scrape or clean spark plug electrodes.
Grit in the engine could damage the cylinder.

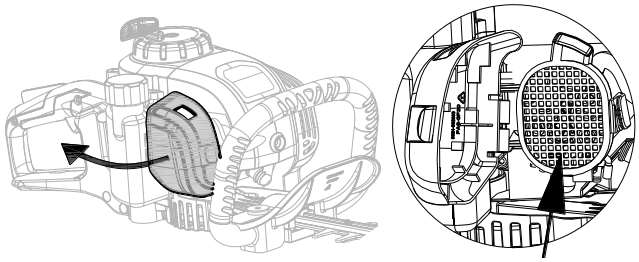
3. Inspect the spark plug. If the spark plug is cracked, fouled or dirty, replace it with a new spark plug.
4. Use a feeler gauge to set the air gap at 0.025 in. (0.635 mm).
5. Install the spark plug in the cylinder head. Tighten the spark plug with a 5/8-inch socket, turning it clockwise until snug.
6. Reattach the spark plug boot.

# CLEANING AND MAINTENANCE

## Air filter

The air filter must be regularly cleaned to remove dust and dirt in order to avoid:
- Carburettor malfunctions
- Starting problems
- Loss of engine power
- Unnecessary wear to engine parts.
- Excessive petroll consumption.

Clean the filter every 25 hours, or more regularly if conditions are exceptionally dusty.



**Cleaning the air filter**

Remove the air filter cover and take out the filter. Wash it clean in warm, soapy water. Ensure that the filter is dry before refitting it.

An air filter that has been in use for a long time cannot be cleaned completely. The filter must therefore be replaced with a new one at regular intervals. A damaged air filter must always be replaced.

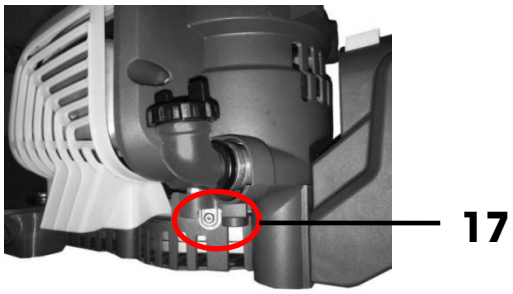
If the machine is used in dusty conditions the air filter should be soaked in oil.

The air filter should be cleaned by air or shaking the air filter.

# CLEANING AND MAINTENANCE

## Gear

There is a grease nipple and a plug for filling lubricant on the gear housing. Use a grease gun to fill with grease. This should be done after every 25 working hours.

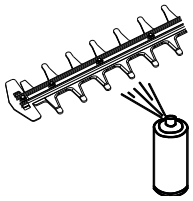



**CAUTION!** The gear housing must not be filled completely with grease. The grease expands as the machine heats up during operation. If the gear housing was completely filled with grease it could damage the seals and lead to leakage of grease.
The grease in the bevel gear does not normally need to be changed except if repairs are carried out.

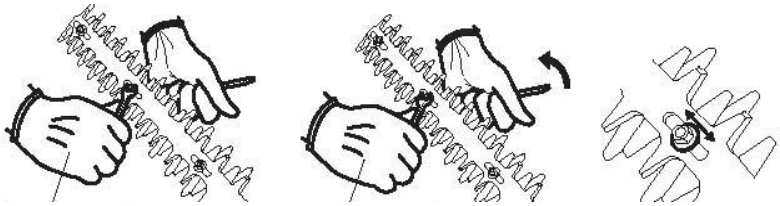
**NOTE:** The gear housing gets hot when the machine has been in use. To avoid burning yourself do not touch the gear housing.

## Cutting Blade

Clean any resin and plant residue from the blades using cleaning agent before and after using the machine.
Lubricate the blade bars with rust preventive oil before long periods of storage.



To ensure good cutting results it is important that the contact pressure between the blades is correct. The contact pressure is adjusted by turning the screws on the underside of the bar clockwise as far as they will go. Lock the screws using the locking nut on the top of the bar. Check that the screws are loose enough to allow the washers under the screw heads to slide sideways.



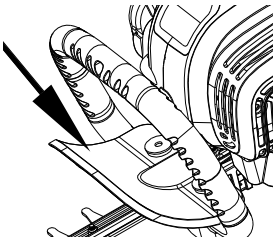
# CLEANING AND MAINTENANCE

## Cutting Blade (continued)

When the blades are correctly adjusted the play between the blades should be 0,2–0,4 mm, measured at the screws.
The edges of the blades are too hard to be filed. Dull blades should be sharpened using a grinder.
Replace the blades if they are bent or damaged.

## Hand guard

The hand guard prevents hands from coming into contact with the moving blades, for example, if the operator loses grip on the front handle.



Check that the hand guard is fitted correctly.
Check that the hand guard is undamaged

## FUEL CAP, TANK

**WARNING!** Check for petrol leaks. A leaking fuel cap, tank, or lines are a fire hazard and must be replaced immediately. If you find any leaks, correct the problem before using the product. Failure to do so could result in a fire that could cause serious personal injury.

The fuel cap contains a non-serviceable filter and a check valve. A clogged fuel filter will cause poor engine performance. If performance improves when the fuel cap is loosened, check valve may be faulty or filter clogged. Replace fuel cap if required.

**NOTICE:** Do not overfill. Overfilling the crankcase may cause excessive smoke, oil loss, and engine damage.
Reinstall the bottom engine cover. Replace the screws and tighten securely. Replace the screw in the top engine cover and tighten securely.

**NOTE:** Used lubricant should be disposed of at an approved disposal site. See your local retailer for more information.

# CLEANING AND MAINTENANCE

## Maintenance Schedule

The following is a list of the maintenance that must be performed on the machine. Most of the items are described in the Maintenance section. The user must only carry out the maintenance and service work described in this Operator's Manual. More extensive work must be carried out by an authorized service workshop.

| Maintenance | Daily | Weekly | Monthly |
|---|---|---|---|
| Clean the outside of the machine. | X | | |
| Make sure the throttle control lock and the throttle function correctly from a safety point of view. | X | | |
| Check that the stop switch works correctly. | X | | |
| Check that the blades do not move when the engine is idling or when the choke is in the start throttle position. | X | | |
| Check that the blades are undamaged and show no signs of cracking or other damage. Replace the blades if necessary. | X | | |
| Check that the blade guard is not damaged or distorted. Replace the blade guard if it is bent or damaged. | X | | |
| Clean the air filter. Replace if necessary. | X | | |
| Check that the hand guard is not damaged. Replace the guard if damaged. | X | | |
| Check that nuts and screws are tight. | X | | |
| Check that there are no petrol leaks from the engine, tank or petrol lines. | X | | |
| Check the starter and starter cord. | | X | |
| Check that the vibration damping elements are not damaged. | | X | |
| Clean the outside of the spark plug. Remove it and check the electrode gap. Adjust the gap to 0.7 mm or replace the spark plug. Check that the spark plug is fitted with a suppressor. | | X | |
| Clean the machine's cooling system. | | X | |
| Clean or replace the spark arrestor mesh on the muffler (only applies to mufflers without a catalytic converter). | | X | |
| Clean the outside of the carburetor and the space around it. | | X | |
| Fill the gear housing with grease. This should be carried out approximately every 25 working hours. | | X | |
| Check that the screws that hold the blades together are correctly tightened. | | X | |
| Clean the fuel tank. | | | X |
| Check the fuel filter from contamination and the fuel hose from cracks or other defects. Replace if necessary. | | | X |

# CLEANING AND MAINTENANCE

## Maintenance Schedule (continued)

| Maintenance | Daily | Weekly | Monthly |
|---|---|---|---|
| Check all cables and connections. | | | X |
| Check the clutch, clutch springs and the clutch drum for wear. Replace if necessary by an authorized service workshop. | | | X |
| Replace the spark plug. Check that the spark plug is fitted with a suppressor. | | | X |
| Check and clean the spark arrestor mesh on the muffler | | | X |
| To reduce the fire hazard, clean dirt, leaves and surplus lubricant, etc from the muffler and engine. | | | X |

# TECHNICAL DATA

| | |
|---|---|
| Model No. | YT9305-01 |
| Cylinder displacement | 26.5 $cm^3$ |
| Cylinder bore | Φ 36 mm |
| Stroke | 26 mm |
| Recommended max. speed | 11000/min |
| Max. engine output, acc. to ISO 8893 | 650W/7000rpm |
| Blade length | 550 mm |
| Cutting length | 480 mm |
| Blade speed | 2000 /min |
| Blade tooth space | 35 mm |
| Max. cutting diameter | 28 mm |
| Fuel tank capacity | 280 ml |
| Weight without petrol | 4.9 kg |
| Spark plug model No. | CMR5H |
| Sound pressure level LpA | 86.8 dB(A) K=3dB(A) |
| Sound power level, measured LwA | 100.2 dB(A) K=3dB(A) |
| Sound power level, guaranteed LwA | 103 dB(A) |
| Vibration (front handle) | 4.14 $m/s^2$, K=1.5$m/s^2$ |
| Vibration (rear handle) | 8.33 $m/s^2$, K=1.5$m/s^2$ |

Note 1: Noise emissions in the environment measured as sound power (LWA) in conformity with EC directive 2000/14/EC. Reported sound power level for the machine has been measured with the original cutting attachment that gives the highest level. The difference between guaranteed and measured sound power is that the guaranteed sound power also includes dispersion in the measurement result and the variations between different machines of the same model according to Directive 2000/14/EC.
Note 2: Reported data for equivalent sound pressure level for the machine has a typical statistical dispersion (standard deviation) of 1 dB (A).
Note 3: Reported data for equivalent vibration level has a typical statistical dispersion (standard deviation) of 1 $m/s^2$

# TROUBLESHOOTING

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore check the product using this section. In most cases the problem can be solved quickly.

**WARNING!** Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorized service centre or a similarly qualified specialist if you cannot solve the problem yourself!

| Problem | Possible cause | Fault correction |
|---|---|---|
| 1. Engine does not start | 1.1 Not enough petrol in fuel tank<br>1.2 Primer has been not pressed at cold start<br>1.3 Primer has been pressed at warm start<br>1.4 Spark plug is wet<br>1.5 Spark plug is damaged<br>1.6 Spark plug connector lose<br>1.7 Ignition switch is not switched on<br>1.8 Choke button position is wrong | 1.1 Add petrol<br>1.2 Press the primer and restart<br>1.3 Dry spark plug<br>1.4 Dry spark plug<br>1.5 Replace spark plug<br>1.6 Attach properly<br>1.7 Set ignition switch to "I"<br>1.8 Set the choke lever position correctly as the starting steps |
| 2. Engine stops | 2.1 Not enough petrol in the fuel tank<br>2.2 Cutting device is blocked<br>2.3 Cold machine does not warmup<br>2.4 Not enough oil or wrong oil | 2.1 Add petrol in to fuel tank<br>2.2 Remove blockage<br>2.3 Let the engine warm up at idle for a while<br>2.4 Add the 4 stroke engine oil to the full level of oil tank |
| 3. Unsatisfactory cutting performance | 3.1 Cutting blade is dull/ damaged<br>3.2 Cutting material exceeds capacity | 3.1 Have a specialist to sharpen or replace it3.2 Only cut materials according to the capacity of the product |
| 4. Excessive vibration / noise or exhaust | 4.1 Cutting device is dull/ damaged<br>4.2 Bolts/nuts are loosen<br>4.3 Petrol/oil is incorrect | 4.1 Replace with a new one<br>4.2 Tighten bolts/nuts<br>4.3 Empty unused petrol/ oil and refill with the correct petrol/oil |

# DISPOSAL

## Instructions

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

# GETTING HELP

Our dedicated UK based customer helpline is open 5 days a week to assist you with assembly, parts queries and technical support.

**UK/Ireland helpline 0333 300 1614 Monday to Friday 9am–5pm**

# GUARANTEE

Dear Customer,

In the unlikely event that your device develops a fault, please contact our Customer service helpline (0333 300 1614).

1. These guarantee terms cover additional guarantee rights and do not affect your statutory warranty rights.
Claims must be accompanied by 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 1 year prior to the claim, from the retailer that it was originally sold to.

2. 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. Please note that our devices have not been designed for use in commercial, trade or industrial applications. Consequently, the guarantee is invalidated if the equipment is used in commercial, trade or industrial applications or for other equivalent activities.

3. The following are also excluded from our guarantee:
A) Faults due to accidents, customer misuse, or unauthorized repairs
B) Consumable Parts such as Blades/ /Spark plugs or Filters
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, drive belts, or recoil starters

4. The guarantee is valid for a period of 1 years starting from the purchase date of the device. Guarantee claims should be submitted before the end of the guarantee period within two weeks of the defect being noticed. No guarantee claims will be accepted after the end of the guarantee 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. This also applies when an on-site Service is used.

5. Please keep your sales receipt in a safe place. If the defect is 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 or Like for like replacement.