



**Operator's manual
Manuel d'utilisation
Manual de instrucciones**

**SUPERLITE 4528
ERGOLITE 6028**



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

Lire attentivement et bien assimiler le manuel d'utilisation avant d'utiliser la machine.

Lea detenidamente el manual de instrucciones y asegúrese de entender su contenido antes de utilizar la máquina.

English (2-22)

French (23-43)

Spanish (44-64)

KEY TO SYMBOLS

Symbols

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
- Approved eye protection



Always wear approved protective gloves.



Wear sturdy, non-slip boots or shoes.



Ignition; choke: Set the choke control in the choke position.



Air purge.



Starting instructions See the instructions under the heading Start and stop.



Other symbols/decals on the machine refer to special certification requirements for certain markets.

The engine is switched off by moving the stop switch to the stop position. **CAUTION!** The stop switch automatically returns to the start position. In order to prevent unintentional starting, the spark plug cap must be removed from the spark plug when assembling, checking and/or performing maintenance.



Always wear approved protective gloves.



Regular cleaning is required.



Visual check.



Protective goggles or a visor must be worn.



WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

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Note the following before starting:

Please read the operator's manual carefully.



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

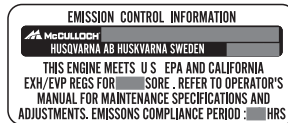


WARNING! Under no circumstances may the design of the machine be modified without the permission of the manufacturer. Always use genuine accessories. Non-authorized modifications and/or accessories can result in serious personal injury or the death of the operator or others.

Your warranty may not cover damage or liability caused by the use of non-authorized accessories or replacement parts.



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.



The Emissions Compliance Period referred to on the Emission Compliance label indicates the number of operating hours for which the engine has been shown to meet Federal emissions requirements.

For customer assistance, call: **1-800-487-5951**

Contact us at our website: **www.husqvarna.com**

INTRODUCTION

Dear customer!

Thank you for choosing a McCulloch product. You are thereby part of a story that started long ago, when the McCulloch Corporation started its manufacturing of engines during World War II. In 1949, when McCulloch introduced its first light one-man chainsaw, woodworking would never be the same again.

The line of innovative chainsaws would continue over the decades, and business was expanded, first by airplane and kart engines in the 1950s, then by mini chainsaws in the 1960s. Later, in the 1970s and 80s, trimmers and blower vacs were added to the range.

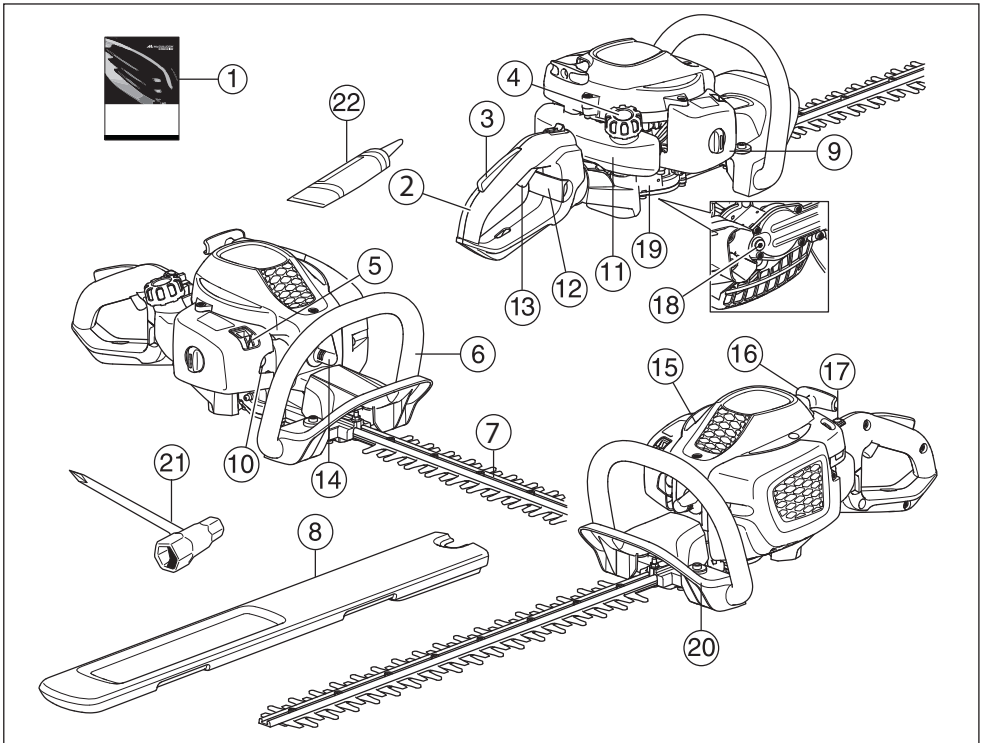
Today, as a part of the Husqvarna group, McCulloch continues the tradition of powerful engines, technical innovations, and strong designs that have been our hallmarks for more than half a century. Lowering fuel consumption, emissions and noise levels are of top priority to us, as is improving safety and user-friendliness.

We certainly hope that you will be satisfied with your McCulloch product, as it is designed to be your companion for a long time. By following this operators manual's advice on usage, service, and maintenance, its lifespan can be extended. If you should need professional help with repair or service, please use the Service Locator at www.mcculloch.com.

McCulloch has a policy of continuous product development and therefore reserves the right to modify the design and appearance of products without prior notice.

This manual can also be downloaded at www.mcculloch.com.

WHAT IS WHAT?



What is what?

- | | |
|-------------------------|------------------------------------|
| 1 Operator's manual | 12 Lock for handle (ErgoLite 6028) |
| 2 Handle | 13 Throttle trigger |
| 3 Throttle lock | 14 Spark plug cap and spark plug |
| 4 Fuel cap | 15 Cylinder cover |
| 5 Choke control | 16 Starter handle |
| 6 Front handle | 17 Stop switch |
| 7 Blade and blade guard | 18 Lubricant filler cap, gear |
| 8 Transport guard | 19 Gear |
| 9 Air filter cover | 20 Hand guard |
| 10 Air purge. | 21 Combination spanner |
| 11 Fuel tank | 22 Tube of grease |

GENERAL SAFETY PRECAUTIONS

Important

IMPORTANT!

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 judgement 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.



WARNING! This machine produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this machine.



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



WARNING! Never allow children to use or be in the vicinity of the machine. As the machine is equipped with a spring-loaded stop switch and can be started by low speed and force on the starter handle, even small children under some circumstances can produce the force necessary to start the machine. This can mean a risk of serious personal injury. Therefore remove the spark plug cap when the machine is not under close supervision.



WARNING! Faulty blades can increase the risk of accidents.

Personal protective equipment

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 dealer for help in choosing the right equipment.



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.

HEARING PROTECTION

Wear hearing protection that provides adequate noise reduction.



EYE PROTECTION

Always wear approved eye protection. If you use a visor then you must also wear approved protective goggles. Approved protective goggles must comply with standard ANSI Z87.1 in the USA or EN 166 in EU countries.



GLOVES

Gloves should be worn when necessary, e.g., when fitting cutting attachments.



BOOTS

Wear sturdy, non-slip boots or shoes.



GENERAL SAFETY PRECAUTIONS

CLOTHING

Wear clothes made of a strong fabric and avoid loose clothing that can catch on twigs and branches. Always wear heavy, long pants. Do not wear jewellery, shorts sandals or go barefoot. Secure hair so it is above shoulder level.

FIRST AID KIT

Always have a first aid kit nearby.



Machine's safety equipment

This section describes the machine's safety equipment, its purpose, and how checks and maintenance should be carried out to ensure that it operates correctly. See the "What is what?" section to locate where this equipment is positioned on your machine.

The life span of the machine can be reduced and the risk of accidents can increase if machine maintenance is not carried out correctly and if service and/or repairs are not carried out professionally. If you need further information please contact your nearest servicing dealer.

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 your service agent. When you buy any of our products we guarantee the availability of professional repairs and service. If the retailer who sells your machine is not a servicing dealer, ask him for the address of your nearest service agent.

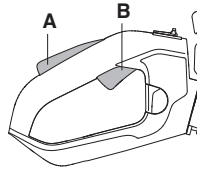


WARNING! Never use a machine with faulty safety equipment. The machine's safety equipment must be checked and maintained as described in this section. If your machine fails any of these checks contact your service agent to get it repaired.

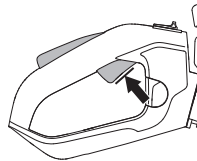
Throttle lockout

The throttle lockout is designed to prevent accidental operation of the throttle control. When you press the lock (A) (i.e. when you grasp the handle) it releases the throttle control (B). 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

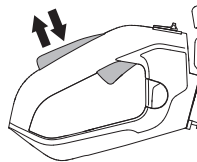
the throttle control is automatically locked at the idle setting.



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

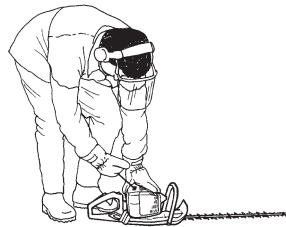


Press the throttle lockout and make sure it returns to its original position when you release it.



Check that the throttle trigger and throttle lockout move freely and that the return springs work properly.

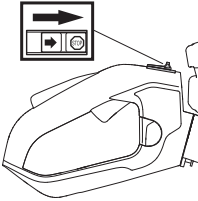
See instructions under the heading Start. Start the hedge trimmer and apply full throttle. Release the throttle trigger and check that the blades stop and remain stationary. If the blades move when the throttle trigger is in the idle position then the carburettor idle setting must be adjusted. See instructions under the heading Maintenance.



GENERAL SAFETY PRECAUTIONS

Stop switch

Use the stop switch to switch off the engine.

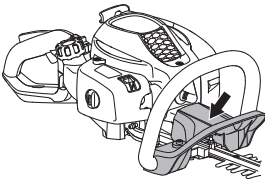


Start the engine and make sure the engine stops when you move the stop switch to the stop setting. The stop switch automatically returns to the start position. In order to prevent unintentional starting, the spark plug cap must be removed from the spark plug when assembling, checking and/or performing maintenance.

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.

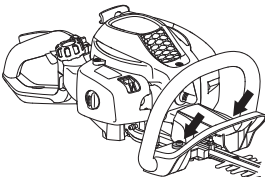
Vibration damping system



Your machine is equipped with a vibration damping system that is designed to reduce vibration and make operation easier.

The machine's vibration damping system reduces the transfer of vibration between the engine unit/cutting equipment and the machine's handle unit.

The engine body, including the blades, is suspended on the handlebar using four rubber bushings.



Regularly check the vibration damping units for cracks or deformation. Check that the vibration damping element is undamaged and securely attached.



WARNING! Overexposure to vibration can lead to circulatory damage or nerve damage in people who have impaired circulation. Contact your doctor if you experience symptoms of overexposure to vibration. Such symptoms include numbness, loss of feeling, tingling, pricking, pain, loss of strength, changes in skin colour or condition. These symptoms normally appear in the fingers, hands or wrists. The risk increases at low temperatures.

Muffler



The muffler is designed to keep noise levels to a minimum and to direct exhaust fumes away from the user. A muffler fitted with a catalytic converter is also designed to reduce harmful exhaust gases.



In countries that have a warm and dry climate there is a significant risk of fire. We therefore fit certain mufflers with a spark arrestor screen. Check whether the muffler on your machine is fitted with this kind of screen.



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.

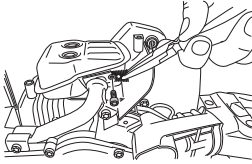


Regularly check that the muffler is securely attached to the machine.



GENERAL SAFETY PRECAUTIONS

If the muffler on your machine is fitted with a spark arrestor screen this must be cleaned regularly. A blocked screen will cause the engine to overheat and may lead to serious damage.



WARNING! Mufflers fitted with catalytic converters get very hot during use and remain so for some time after stopping. This also applies at idle speed. Contact can result in burns to the skin. Remember the risk of fire!



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

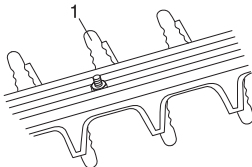


WARNING! Bear in mind that: The exhaust fumes from the engine are hot and may contain sparks which can start a fire. Never start the machine indoors or near combustible material!

Blade and blade guard



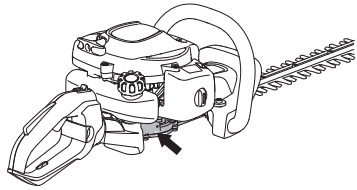
The outer part of the blades (1) are shaped as blade guards. The blade guard is intended to protect against any part of the body coming into contact with the blades.



Check that the blade guard is not damaged or distorted. Replace the cutting unit if it is bent or damaged.

Gear

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



FUEL HANDLING

Fuel safety

Never start the machine:

- 1 If you have spilled fuel on it. Wipe off the spillage and allow remaining fuel to evaporate.
- 2 If you have spilled fuel on yourself or your clothes, change your clothes. Wash any part of your body that has come in contact with fuel. Use soap and water.
- 3 If the machine is leaking fuel. Check regularly for leaks from the fuel cap and fuel lines.

Transport and storage

- Allow the hedge trimmer to cool down after use before putting it away for storage.
- Store and transport the machine and fuel 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 fuel always use approved containers intended for this purpose.
- When storing the machine for long periods the fuel tank must be emptied. Contact your local gas station to find out where to dispose of excess fuel.
- 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! Take care when handling fuel. Bear in mind the risk of fire, explosion and inhaling fumes.

Fuel

CAUTION! The machine is equipped with a two-stroke engine and must always be run using a mixture of gasoline and two-stroke engine oil. It is important to accurately measure the amount of oil to be mixed to ensure that the correct mixture is obtained. When mixing small amounts of fuel, even small inaccuracies can drastically affect the ratio of the mixture.



WARNING! Fuel and fuel 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 fuel and make sure there is adequate ventilation.

Gasoline



CAUTION! Always use a quality gasoline/oil mixture with an octane rating of at least 87 octane ((RON+MON)/2). If your machine is equipped with a catalytic converter (see chapter on Technical data) always use a good quality unleaded gasoline/oil mixture. Leaded gasoline will destroy the catalytic converter.

Use low-emission gasoline, also known as alkylate gasoline, if it is available.



This engine is certified to operate on unleaded gasoline.

- The lowest recommended octane grade is 87 ((RON+MON)/2). If you run the engine on a lower octane grade than 87 so-called knocking can occur. This gives rise to a high engine temperature and increased bearing load, which can result in serious engine damage.
- When working at continuous high revs a higher octane rating is recommended.

Two-stroke oil

- For best results and performance use Universal, Universal powered by McCULLOCH two-stroke engine oil, which is specially formulated for our air-cooled two stroke-engines.
- Never use two-stroke oil intended for water-cooled engines, sometimes referred to as outboard oil (rated TCW).
- Never use oil intended for four-stroke engines.
- Mixing ratio
1:50 (2%) with Universal, Universal powered by McCULLOCH two-stroke oil.

| Gasoline, litre | Two-stroke oil, litre |
|-----------------|-----------------------|
| | 2% (1:50) |
| 5 | 0,10 |
| 10 | 0,20 |
| 15 | 0,6/0,30 |
| 20 | 0,40 |
| US gallon | US fl. oz. |
| 1 | 2 1/2 |
| 2 1/2 | 6 1/2 |
| 5 | 12 7/8 |

FUEL HANDLING

Mixing

- Always mix the gasoline and oil in a clean container intended for fuel.
- Always start by filling half the amount of the gasoline to be used. Then add the entire amount of oil. Mix (shake) the fuel mixture. Add the remaining amount of gasoline.
- Mix (shake) the fuel mixture thoroughly before filling the machine's fuel tank.



- Do not mix more than one month's supply of fuel at a time.
- If the machine is not used for some time the fuel tank should be emptied and cleaned.



WARNING! The catalytic converter muffler gets very hot during and after use. This also applies during idling. Be aware of the fire hazard, especially when working near flammable substances and/or vapours.

Fueling



WARNING! Taking the following precautions, will lessen the risk of fire:

Do not smoke or place hot objects near fuel.

Always shut off the engine before refuelling.

Refuel in a well ventilated area. Never fuel the machine indoors.

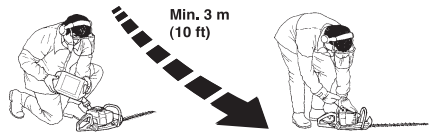
Always stop the engine and let it cool for a few minutes before refuelling.

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 and source before starting.

- Clean the area around the fuel cap. Contamination in the tank can cause operating problems.
- Ensure that the fuel is well mixed by shaking the container before filling the tank.



STARTING AND STOPPING

Check before starting



- Inspect the working area. Remove any objects that could be thrown out.
- Check the cutting attachment. 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.
- 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 gear housing must be fitted before the machine is started, otherwise the clutch may loosen 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.

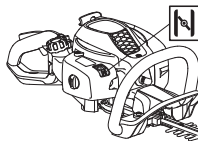
Cold engine

(1) Choke control

1 ←



Set the choke control in the choke position.

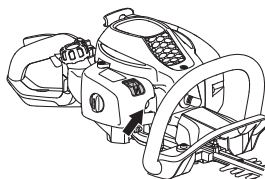


(2) Primer bulb:

2 ↓ 6X



Press the air purge diaphragm repeatedly until fuel begins to fill the diaphragm (about 6 times). The diaphragm need not be completely filled.



(3) Starting

3 ↗ 3X

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 wrap the starter cord around your hand**



(4, 5)

4 →



5 ↗



Push the choke control back to its original position as soon as the engine fires, and continue trying to start until the engine starts.

CAUTION! When the choke control is pushed back to its original position, the engine runs at a heightened speed, the so called start throttle position, and the blades then move. Start throttle position is released by throttling using the throttle lever.

STARTING AND STOPPING

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.

Warm engine

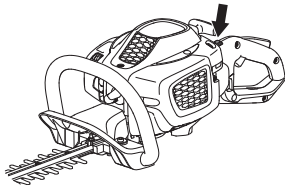


Hold the body of the machine on the ground using your left hand (**CAUTION!** Not with your foot!). Grip the starter handle, slowly pull out the cord with your right hand until you feel some resistance (the starter pawls grip), now quickly and powerfully pull the cord. **Never wrap the starter cord around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



Stopping

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



CAUTION!

The stop switch automatically returns to the start position. In order to prevent unintentional starting, the spark plug cap must be removed from the spark plug when assembling, checking and/or performing maintenance.

WORKING TECHNIQUES

General working instructions

IMPORTANT!

This section takes up the basic safety precautions for working with a hedge trimmer.

If you encounter a situation where you are uncertain how to proceed you should ask an expert. Contact your dealer or your service workshop.

Avoid all usage which you consider to be beyond your capability.



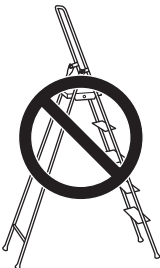
WARNING! The machine can cause serious personal injury. Read the safety instructions carefully. Learn how to use the machine.



WARNING! Cutting tool. Do not touch the tool without first switching off the engine.

Safety instructions regarding the surroundings

- Never allow children to use the machine.
- Observe your surroundings and make sure that there is no risk of people or animals coming into contact with the cutting equipment.
- 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.

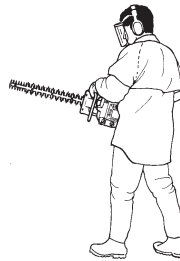


- Keep in mind that the operator is responsible for accidents or hazards occurring to other people or their property.

Safety instructions while working



- Always ensure you have a safe and stable working position.
- Never leave the machine unsupervised with the motor running.
- Always use both hands to hold the machine. Hold the machine in front of your body.



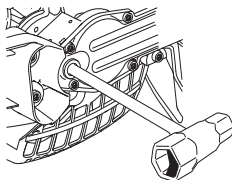
- Make sure that your hands and feet do not come near the cutting attachment when the engine is running.



- 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.

WORKING TECHNIQUES

If the blades get stuck, they can be loosened by sticking the combination spanner into the gear housing. Remove the lubricant plug and stick the combination spanner into the gearing and turn it back and forth.



Safety instructions after completing work



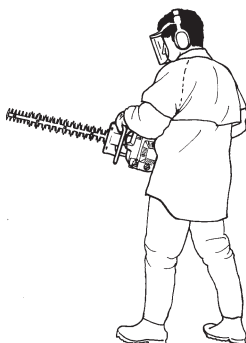
- The transport guard should always be fitted to the cutting attachment when the machine is not in use.
- Make sure the cutting attachment has stopped before cleaning, carrying out repairs or an inspection. Disconnect the HT lead from the spark plug.
- Always wear heavy-duty gloves when repairing the 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

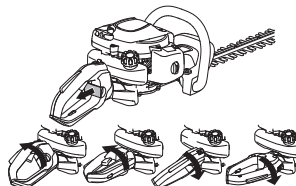
- Work with a swinging action from the bottom upwards when trimming sides.
- Adjust the throttle setting to suit the load.
- When trimming a hedge the engine should always face away from the hedge.
- Hold the machine as close to your body as possible to get the best balance.



- 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.

ERGOLITE 6028

The hedge trimmer's rear handle can be set in five positions by pulling out the catch. See figure. When the handle is adjusted, the hedge trimmer must be idling or not running.



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

MAINTENANCE

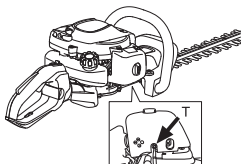
Carburetor

Adjustment of the idle speed

Before any adjustments are made, make sure that the air filter is clean and the air filter cover is fitted. Make sure the start throttle position is disengaged.

Adjust the idle speed using the idle adjustment screw T, if it is necessary to readjust. First turn the T screw clockwise until the cutting attachment starts to move. Then turn the screw anticlockwise until the cutting attachment stops. The idle speed is correctly adjusted when the engine runs smoothly in every position. The idle speed should also be well below the speed at which the cutting attachment starts to move.

Rec. idle speed: See the Technical data section.



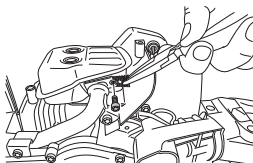
WARNING! If the idle speed cannot be adjusted so that the cutting attachment stops, contact your dealer/service workshop. Do not use the machine until it has been correctly adjusted or repaired.

Muffler



CAUTION! Some mufflers are fitted with a catalytic converter. See chapter on Technical data to see whether your machine is fitted with a catalytic converter.

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.



Some mufflers are equipped with a special spark arrestor mesh. If your machine has this type of muffler, the mesh must be cleaned. This is best done with a wire brush.

On mufflers without a catalytic converter, the mesh should be cleaned or replaced if necessary once a week. **If the mesh is damaged it must be replaced.** If the mesh is frequently blocked, this can be a sign that the carburettor is incorrectly adjusted or that too much oil has been mixed with the petrol.

On mufflers fitted with a catalytic converter, the mesh must be checked, and if necessary cleaned, monthly. **If the mesh is damaged it must be replaced.** If the screen is frequently blocked, this can be a sign that the performance of the catalytic converter is impaired. Contact your dealer to inspect the muffler. A blocked screen will cause the machine to overheat and result in damage to the cylinder and piston.

CAUTION! Never use a machine with a defective muffler.

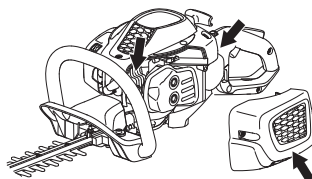


WARNING! Mufflers fitted with catalytic converters get very hot during use and remain so for some time after stopping. This also applies at idle speed. Contact can result in burns to the skin. Remember the risk of fire!

Cooling system

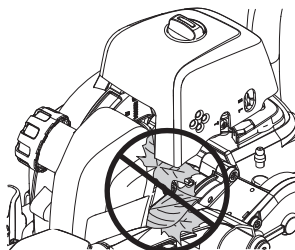


To keep the working temperature as low as possible the machine is equipped with a cooling system.



The cooling system consists of:

- 1 Cooling fins on the cylinder.
- 2 Cylinder cover (directs cold air over the cylinder).
- 3 Air intake through the crankcase (inside the tank).



Clean the cooling system with a brush once a week, more often in demanding conditions. A dirty or blocked cooling system results in the machine overheating which causes damage to the piston and cylinder.

MAINTENANCE

Spark plug

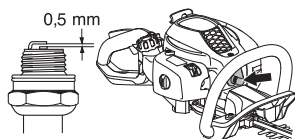


The spark plug condition is influenced by:

- Incorrect carburetor adjustment.
- An incorrect fuel mixture (too much or incorrect type of oil).
- 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 0,5 mm (0,020"). The spark plug should be replaced after about a month in operation or earlier if necessary.

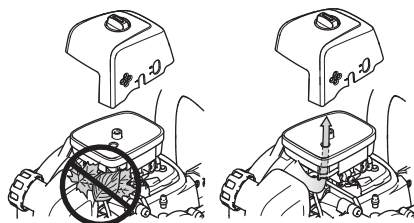


CAUTION! Always use the recommended spark plug type! Use of the wrong spark plug can damage the piston/cylinder. Check that the spark plug is fitted with a suppressor.

Air filter



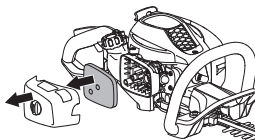
Make sure that the cooling system air intake is free of leaves and debris.



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 fuel consumption.

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

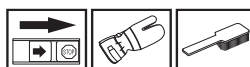


Cleaning the air filter

Remove the air filter cover and take out the filter. Wash it clean in warm, soapy water. Allow the filter to dry and then oil it in according to the instructions.

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.**

Oiling the air filter



Always use filter oil, art. no. 531 00 92-48. The filter oil contains a solvent to make it spread evenly through the filter. You should therefore avoid skin contact.

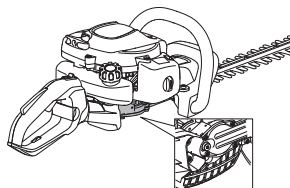
Put the filter in a plastic bag and pour the filter oil over it. Knead the plastic bag to distribute the oil. Squeeze the excess oil out of the filter inside the plastic bag and pour off the excess before fitting the filter to the machine. Never use common engine oil. This would drain through the filter quite quickly and collect in the bottom.



Gear



There is a plug for filling lubricant on the gear housing. Use the grease tube to fill with grease and repeat every 25 hours. Use Husqvarna's special grease.

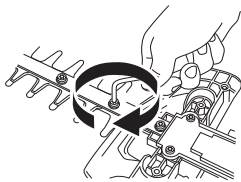


CAUTION! The gear housing must not be filled completely with grease. The grease expands as the machine heats up during operation. If the gear housing was completely filled with grease it could damage the seals and lead to leakage of grease.

The grease in the bevel gear does not normally need to be changed except if repairs are carried out.

Cutting unit

Check that the cutting units' screws are fitted correctly. Tighten them with a tightening torque of 7-10 Nm.



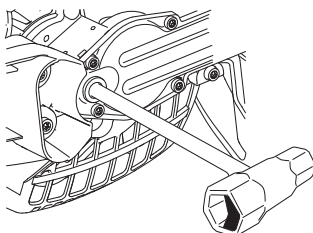
Cleaning and lubrication



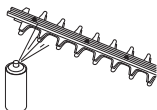
Clean any resin and plant residue from the blades using cleaning agent 531 00 75-13 (UL22) before and after using the machine.

Check that the blade edges are not damaged or deformed. File away any burrs.

Check that the blades move freely. Remove the lubrication plug in the gear housing and stick in the combination spanner and turn back and forth.



Lubricate the blade bars with special grease, part no. 531 00 75-12 (UL 21) before long periods of storage.



IMPORTANT!

Use only McCULLOCH replacement parts. Use of other brands of replacement parts can cause damage to your unit or injury to the operator or others. Your warranty does not cover damage or liability caused by the use of accessories and/or attachments not specifically recommended by McCULLOCH.

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 manual. More extensive work must be carried out by an authorized service workshop.

| Maintenance | Before use: | After 40 hours in use | After 100 hours in use |
|---|-------------------------------------|-----------------------|------------------------|
| Clean the outside of the machine. Make sure that the cooling system air intake is free of leaves and debris. | After each time the machine is used | | |
| Make sure the throttle trigger lock and the throttle function correctly from a safety point of view. | X | | |
| In order to reduce the risk of fire, dirt, leaves and surplus lubricant, etc must be cleaned from the muffler, exhaust pipe and engine. | X | | |
| Check that the stop switch works correctly. | X | | |
| Check that the blades do not move when the engine is idling. | 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 if the blade guard is bent or damaged. | X | | |
| Replace the cutting unit if it is bent or damaged. | 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 fuel leaks from the engine, tank or fuel lines. | X | | |
| Clean the air filter and oil it in. Clean more often if conditions are exceptionally dusty. | (25 tim). | | |
| 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 0.5 mm (.020"), or replace the spark plug. Check that the spark plug is fitted with a suppressor. | | X | |
| Clean the machine's cooling system. | | X | |
| Clean the outside of the carburettor 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 | |
| Check and clean the spark arrestor screen on the muffler (only applies to mufflers fitted with a catalytic converter). | | X | |
| Clean the inside of the fuel tank. | | | X |
| Check the inside of the fuel filter for any dirt or if the fuel hose has any cracks or other defects. Replace if necessary. | | | X |
| 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 |

TECHNICAL DATA

Technical data

| Technical data | SUPERLITE 4528 | ERGOLITE 6028 |
|--|----------------|---------------|
| Motor | | |
| Cylinder displacement, cu.in/cm ³ | 1,32/21,7 | 1,32/21,7 |
| Cylinder bore, inch/mm | 1,26/32 | 1,26/32 |
| Stroke, inch/mm | 1,06/27 | 1,06/27 |
| Idle speed, rpm | 2800 | 2800 |
| Recommended max. speed, rpm | 9000 | 9000 |
| Max. engine output, acc. to ISO 8893, kW/ rpm | 0,6/7800 | 0,6/7800 |
| Catalytic converter muffler | Yes | Yes |
| Speed-regulated ignition system | Yes | Yes |
| Emissions Durability Period according to California Air Resources Board, h. | 50 | 50 |
| Ignition system | | |
| Spark plug | NGK CMR6A | NGK CMR6A |
| Electrode gap, inch/mm | 0.02/0,5 | 0.02/0,5 |
| Fuel and lubrication system | | |
| Fuel tank capacity, fl oz/litre | 10.1/0,3 | 10.1/0,3 |
| Weight | | |
| Weight without fuel, Lbs/kg | 10,6/4,8 | 11.0/5,0 |
| Sound levels | | |
| (see note 2) | | |
| Equivalent sound pressure level at the operator's ear, measured according to EN ISO 10517, dB(A): | 93 | 93 |
| Vibration levels | | |
| (see note 3) | | |
| Equivalent vibration levels ($a_{hv,eq}$) at handles, measured according to EN ISO 10517, m/s ² | | |
| Front/rear handles: | 3,5/4,4 | 4,1/4,2 |
| Blades | | |
| Type | Double sided | Double sided |
| Length, mm | 450 | 590 |
| Blade speed, cuts/min | 4050 | 4050 |

Note 1: Reported data for equivalent sound pressure level for the machine has a typical statistical dispersion (standard deviation) of 1 dB (A).

Note 2: Reported data for equivalent vibration level has a typical statistical dispersion (standard deviation) of 1 m/s².

FEDERAL AND CALIFORNIA EMISSIONS CONTROL WARRANTY STATEMENT

IMPORTANT:

This product is compliant with U.S. EPA Phase 3 regulations for exhaust and evaporative emissions. To ensure EPA Phase 3 compliance, we recommend using only genuine McCULLOCH brand replacement parts. Use of non-compliant replacement parts is a violation of federal law.

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The EPA (U.S. Environmental Protection Agency), CARB (California Air Resources Board), Environment Canada and McCULLOCH are pleased to explain the emissions control system's warranty on your 2015-2016* small off-road engine. In U.S. and Canada, small off-road engines must be designed, built, and equipped to meet the applicable Federal or California stringent anti-smog standards. McCULLOCH must warrant the emissions control system on your small off-road engine for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine. Your emission control system may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated emission-related components.

For engines less than or equal to 80 cc, only the fuel tank is subject to the evaporative emission control warranty requirements of this section (California only). Where a warrantable condition exists, McCULLOCH will repair your small off-road engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

The emissions control system is warranted for two years. If any emissions-related part on your small off-road engine is defective, the part will be repaired or replaced by McCULLOCH.

OWNER'S WARRANTY RESPONSIBILITIES

- As the small off-road engine owner, you are responsible for performance of the required maintenance listed in your operator's manual. McCULLOCH recommends that you retain all receipts covering maintenance on your small off-road engine, but McCULLOCH cannot deny warranty solely for the lack of receipts or your failure to ensure the performance of all scheduled maintenance.
- As the small off-road engine owner, you should however be aware that McCULLOCH may deny you warranty coverage if your small off-road engine or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

- You are responsible for presenting your small off-road engine to a McCULLOCH distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized servicing dealer or call McCULLOCH in USA at 1-800-487-5951, in CANADA at 1-800-805-5523 or send e-mail correspondence to emissions@husqvarnagroup.com

WARRANTY COMMENCEMENT DATE

The warranty period begins on the date the engine or equipment is delivered to an ultimate purchaser.

LENGTH OF COVERAGE

McCULLOCH warrants to the ultimate purchaser and each subsequent owner that the engine or equipment is designed, built, and equipped so as to conform with all applicable regulations adopted by EPA and CARB, and is free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.

WHAT IS COVERED

REPAIR OR REPLACEMENT OF PARTS Repair or replacement of any warranted part under the warranty must be performed at no charge to the owner at a warranty station. Warranty services or repairs will be provided at all McCULLOCH distribution centers that are franchised to service the subject engines. Throughout the emissions warranty period of two years, McCULLOCH must maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

WARRANTY PERIOD Any warranted part that is scheduled for replacement as required in the maintenance schedule, is warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part will be repaired or replaced by McCULLOCH at no cost. Any such part repaired or replaced under warranty is warranted for the remainder of the period prior to the first scheduled replacement point for the part. Any warranted part that is not scheduled for replacement as required in the maintenance schedule, is warranted for two years. If any such part fails during the period of warranty coverage, it will be repaired and replaced by McCULLOCH at no cost. Any such part repaired or replaced under the warranty is warranted for the remaining warranty period. Any warranted part that is scheduled only for regular inspection in the maintenance schedule will be warranted for a period of two years. A statement in such written instructions to the effect of "repair or replace as necessary" will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.

DIAGNOSIS The owner must not be charged for diagnostic labor that leads to the determination that a

warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.

CONSEQUENTIAL DAMAGES McCULLOCH is liable for damages to other engine components proximately caused by a failure under warranty of any warranted part.

EMISSION WARRANTY PARTS LIST

- 1 Carburetor and internal parts
- 2 Intake pipe, airfilter holder and carburetor bolts.
- 3 Airfilter and fuelfilter covered up to maintenance schedule.
- 4 Spark Plug, covered up to maintenance schedule
- 5 Ignition Module
- 6 Fuel tank, line and cap

WHAT IS NOT COVERED

All failures caused by abuse, neglect or improper maintenance are not covered.

ADD -ON OR MODIFIED PARTS

Add-on or modified parts that are not exempted by CARB or EPA may not be used. The use of any non-exempted add-on or modified parts will be grounds for disallowing a warranty claim. McCULLOCH will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

HOW TO FILE A CLAIM

If you have any questions regarding your warranty rights and responsibilities, you should contact your nearest authorized servicing dealer or call McCULLOCH in USA at 1-800-487-5951, in CANADA at 1-800-805-5523 or send e-mail correspondence to emissions@husqvarnagroup.com

WHERE TO GET WARRANTY SERVICE

Warranty services or repairs are provided through all McCULLOCH authorized servicing dealers.

MAINTENANCE, REPLACEMENT AND REPAIR OF EMISSION-RELATED PARTS

Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of the manufacturer.

MAINTENANCE STATEMENT

The owner is responsible for the performance of all required maintenance, as defined in the operator's manual.

*Current and following model year will be updated annually in the warranty statement provided to the consumer. For example, in 2012 model year, 2012-2013 will be specified.