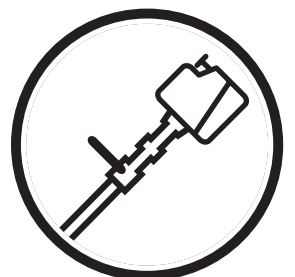


Operator's manual (EPA)
123C 123L 123LD

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



English

KEY TO SYMBOLS

Symbols

WARNING! Clearing saws, brushcutters and trimmers can be dangerous! Careless or incorrect use can result in serious or fatal injury to the operator or others.



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



Always wear:

- A protective helmet where there is a risk of falling objects
- Hearing protection
- Approved eye protection



Max. speed of output shaft, rpm



Watch out for thrown objects and ricochets.



The operator of the machine must ensure, while working, that no persons or animals come closer than 15 metres.



Machines fitted with saw blades or grass blades can be thrown violently to the side when the blade comes into contact with a fixed object. The blade is capable of amputating an arm or leg. Always keep people and animals at least 15 metres from the machine.



Arrows which show limits for handle positioning.



Always wear approved protective gloves.



Wear sturdy, non-slip boots.



Only use non-metallic, flexible cutting attachments, i.e. trimmer heads with trimmer cord.

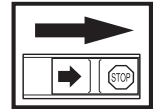


Only intended for trimmer heads.



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

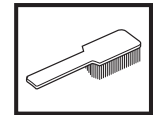
Switch off the engine by moving the stop switch to the STOP position before carrying out any checks or maintenance.



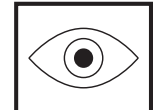
Always wear approved protective gloves.



Regular cleaning is required.



Visual check.



Approved eye protection must always be used.



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Note the following before starting:

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

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

Maintenance, replacement, or repair of the emission control devices and system may be performed by any nonroad engine repair establishment or individual.



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! A clearing saw, brushcutter or trimmer can be dangerous if used incorrectly or carelessly, and can cause serious or fatal injury to the operator or others. It is extremely important that you read and understand the contents of this operator's manual.



WARNING

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

IMPORTANT ENGINE INFORMATION

 **HUSQVARNA AB HUSKVARNA SWEDEN**
THIS ENGINE CONFORMS TO U.S. EPA PH2
EMISSION REGULATIONS FOR SMALL NONROAD ENGINES.
REFER TO OPERATOR'S MANUAL FOR
MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.
EMISSIONS COMPLIANCE PERIOD: CATEGORY 

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. Category C = 50 hours, B = 125 hours, and A = 300 hours.

For customer assistance call: 704-921-7000 or contact us at our website: www.husqvarna.com

SAFETY INSTRUCTIONS

Personal protective equipment

IMPORTANT! Whenever you use a clearing saw, brushcutter or trimmer you must wear personal protective equipment that is approved by the authorities. Personal protective equipment does not eliminate the risk of accidents, but it can reduce the effects of an injury in the event of an accident. Ask your dealer for help when choosing protective 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.

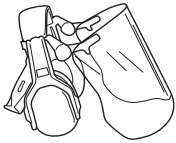
GLOVES

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



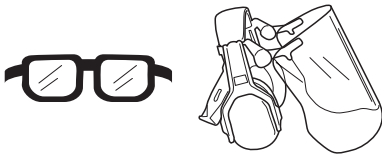
HEARING PROTECTION

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. Visors must comply with standard EN 1731.



BOOTS

Wear sturdy, non-slip boots.

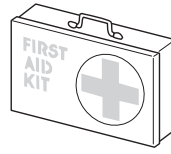


CLOTHING

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.

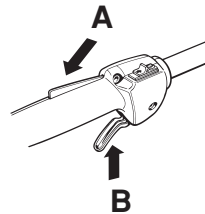
The life span of the machine can be reduced and the risk of accidents can increase if machine maintenance is not carried out correctly and if service and/or repairs are not carried out professionally. If you need further information please contact your nearest service workshop.



WARNING! Never use a machine that has faulty safety equipment! Carry out the inspection, maintenance and service routines listed in this section.

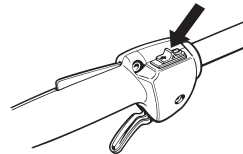
Throttle lock

The throttle lock 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 lock 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.



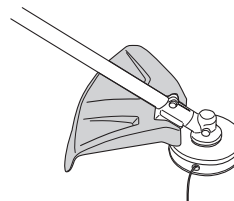
Stop switch

Use the stop switch to switch off the engine.



Cutting attachment guard

This guard is intended to prevent loose objects from being thrown towards the operator. The guard also protects the operator from accidental contact with the cutting attachment.



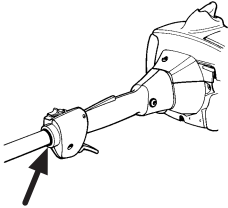
SAFETY INSTRUCTIONS



WARNING! Never use a cutting attachment without an approved guard. See the chapter on Technical data. If an incorrect or faulty guard is fitted this can cause serious personal injury.

Vibration damping system

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



Use of incorrectly wound cord or an incorrect cutting attachment increases the level of vibration.



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.

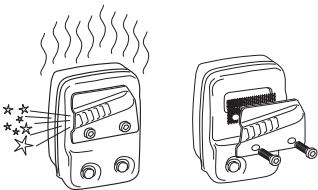
Muffler

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 mesh. Check whether the muffler on your machine is fitted with this kind of mesh.



For mufflers it is very important that you follow the instructions on checking, maintaining and servicing your machine. See instructions under the heading Checking, maintaining and servicing the machine's safety equipment.



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:

Engine exhaust fumes contain carbon monoxide, which can cause carbon monoxide poisoning. For this reason you should not start or run the machine indoors, or anywhere that is poorly ventilated.

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!

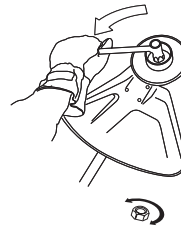
Cutting equipment

A trimmer head is intended for trimming grass.



Locking nut

A locking nut is used to secure some types of cutting attachment.



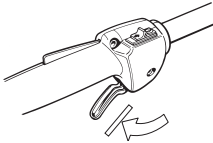
SAFETY INSTRUCTIONS

Checking, maintaining and servicing the machine's safety equipment

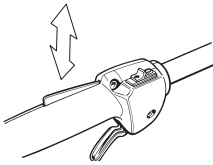
IMPORTANT! All servicing and repair work on the machine requires special training. This is especially true of the machine's safety equipment. If your machine fails any of the checks described below you must contact your service agent. When you buy any of our products we guarantee the availability of 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.

Throttle lock

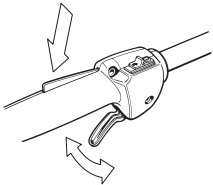
- Make sure the throttle control is locked at the idle setting when the throttle lock is released.



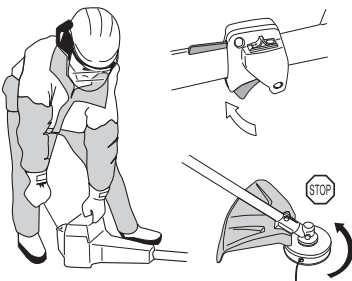
- Press the throttle lock and make sure it returns to its original position when you release it.



- Check that the throttle control and throttle lock move freely and that the return springs work properly.

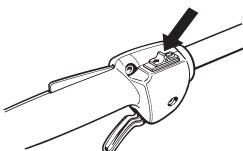


- See instructions under the heading Start. Start the machine and apply full throttle. Release the throttle and check that the cutting attachment stops and remains at a standstill. If the cutting attachment rotates with the throttle in the idle position then the carburettor idle setting must be checked. See instructions under the heading Maintenance.

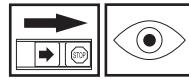


Stop switch

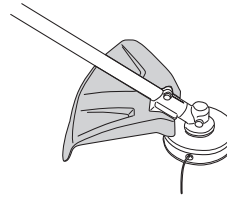
- Start the engine and make sure the engine stops when you move the stop switch to the stop setting.



Cutting attachment guard

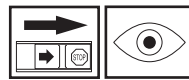


- Ensure that the guard is undamaged and is not cracked.

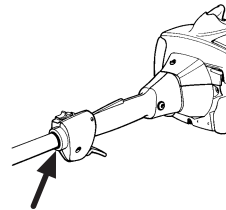


- Replace the guard if it has been exposed to impact or is cracked.
- Always use the recommended guard for the cutting attachment you are using. See chapter on Technical data.

Vibration damping system



- Regularly check the vibration damping units for cracks or deformation.



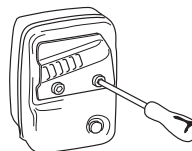
Muffler



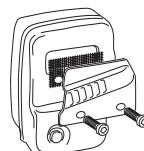
- Never use a machine that has a faulty muffler.



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



- If the muffler on your machine is fitted with a spark arrestor mesh then it should be cleaned regularly. A blocked mesh causes the engine to overheat, which can lead to serious damage. Never use a muffler with a defective spark arrestor mesh.



SAFETY INSTRUCTIONS

Cutting equipment

This section describes how to choose and maintain your cutting equipment in order to:

- Obtain maximum cutting performance.
- Extend the life of cutting equipment.

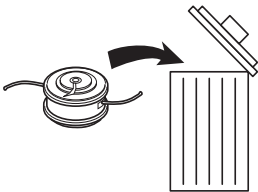
General rules



- 1 Only use cutting attachments with the guards we recommend! See the chapter on Technical data.



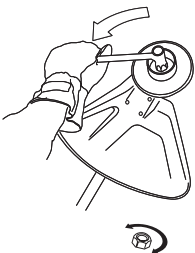
- 2 Check the cutting attachment for damage or cracks. A damaged cutting attachment should always be replaced.



Locking nut



- When fitting, tighten the nut in the opposite direction to the direction of rotation of the cutting attachment. To remove it, undo the nut in the same direction as the cutting attachment rotates. (CAUTION! The nut has a left-hand thread.)



- Tighten the nut using the socket spanner. 35-50 Nm (3.5-5 kpm).

CAUTION! The nylon lining inside the locking nut must not be so worn that you can turn it by hand. The lining should offer a resistance of at least 1.5 Nm. The nut should be replaced after it has been put on approx. 10 times.



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.

Cutting equipment

IMPORTANT!

This section describes how to choose and maintain your cutting equipment in order to:

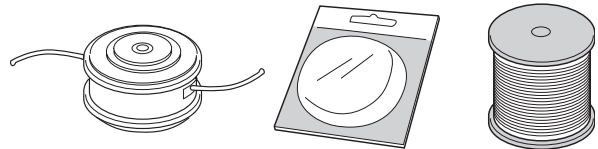
- Reduce the risk of kickback.
- Obtain maximum cutting performance.
- Extend the life of cutting equipment.

Only use cutting attachments with the guards we recommend! See the chapter on Technical data.

Refer to the instructions for the cutting attachment to check the correct way to load the cord and the correct cord diameter.

Trimmer head

- Only use the recommended trimmer heads and trimmer cords. These have been tested by the manufacturer to suit a particular engine size. This is especially important when a fully automatic trimmer head is used. Only use the recommended cutting attachment. See the chapter on Technical data.



- Smaller machines generally require small trimmer heads and vice versa. This is because when clearing using a cord the engine must throw out the cord radially from the trimmer head and overcome the resistance of the grass being cleared.
- The length of the cord is also important. A longer cord requires greater engine power than a shorter cord of the same diameter.
- Make sure that the cutter on the trimmer guard is intact. This is used to cut the cord to the correct length.
- To increase the life of the cord it can be soaked in water for a couple of days. This will make the line tougher so that it lasts longer.

IMPORTANT! Always ensure the trimmer cord is wound tightly and evenly around the drum, otherwise the machine will generate harmful vibration.



WARNING! Always stop the engine before doing any work on the cutting attachment. This continues to rotate even after the throttle has been released. Ensure that the cutting attachment has stopped completely and disconnect the HT lead from the spark plug before you start to work on it.

SAFETY INSTRUCTIONS

General safety precautions

IMPORTANT!

The machine is only designed for trimming grass.

The only accessories you can operate with this engine unit are the cutting attachments we recommend in the chapter on Technical data.

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.

Never use the machine in extreme weather conditions such as severe cold, very hot and/or humid climates.


Never use a machine that has been modified in any way from its original specification.

Wear personal protective equipment. See instructions under the heading Personal protective equipment.

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. Make sure the spark plug cap and HT lead are not damaged. Otherwise you could get an electric shock.

The machine operator must ensure that no people or animals come closer than 15 metres while working. When several operators are working in the same area the safety distance should be at least twice the tree height and no less than 15 metres.

 **WARNING! A faulty cutting attachment may increase the risk of accidents.**

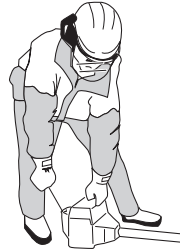
Starting



 **WARNING! When the engine is started with the choke in either the choke or start throttle positions the cutting attachment will start to rotate immediately.**

- The complete clutch cover and shaft must be fitted before the machine is started, otherwise the clutch can come loose and cause personal injury.
- Never start the machine indoors. Exhaust fumes can be dangerous if inhaled.
- Observe your surroundings and make sure that there is no risk of people or animals coming into contact with the cutting equipment.
- Place the machine on the ground, ensure the cutting attachment is clear of twigs and stones. Hold the body of the machine on the ground using your left hand

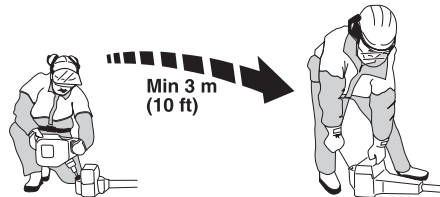
(CAUTION! Not with your foot). Then grip the starter handle with your right hand and pull the starter cord. **Never wrap the starter cord around your hand**



Fuel safety



- Always use a fuel container with an anti-spill valve.
- Never refuel the machine while the engine is running. Always stop the engine and let it cool for a few minutes before refuelling.
- Make sure there is plenty of ventilation when refuelling or mixing fuel (gasoline and 2-stroke oil).
- Move the machine at least 3 m from the refuelling point before starting it.



- Never start the machine:
 - 1 If you have spilt fuel on it. Wipe off the spillage and allow remaining fuel to evaporate.
 - 2 If you have spilt 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.
 - 4 Avoid all skin contact with fuel. Fuel is a skin irritant and may even cause skin changes.

Transport and 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.

SAFETY INSTRUCTIONS

- The transport guard must always be fitted to the cutting attachment when the machine is being transported or in storage.



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

General working instructions

IMPORTANT!

This section describes the basic safety precautions for working with clearing saws and trimmers.

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.

You must understand the difference between forestry clearing, grass clearing and grass trimming before use.

Basic safety rules



- 1 Look around you:
 - To ensure that people, animals or other things cannot affect your control of the machine.
 - To ensure that people, animals, etc., do not come into contact with the cutting attachment or loose objects that are thrown out by the cutting attachment.
 - CAUTION! Do not use the machine unless you are able to call for help in the event of an accident.
- 2 Do not use the machine in bad weather, such as dense fog, heavy rain, strong wind, intense cold, etc. Working in bad weather is tiring and often brings added risks, such as icy ground, unpredictable felling direction, etc.
- 3 Make sure you can move and stand safely. Check the area around you for possible obstacles (roots, rocks, branches, ditches, etc.) in case you have to move suddenly. Take great care when working on sloping ground.



- 4 Switch off the engine before moving to another area. Fit the transport guard before carrying or transporting the equipment any distance.
- 5 Never put the machine down with the engine running unless you have it in clear sight.

Basic working techniques

- Always slow the engine to idle speed after each working operation. Long periods at full throttle without any load on the engine can lead to serious engine damage.



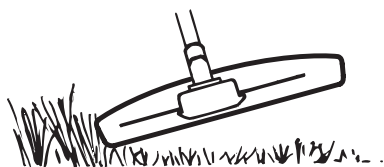
WARNING! Sometimes branches or grass get caught between the guard and cutting attachment. Always stop the engine before cleaning.

Grass trimming using a trimmer head and plastic blades

Trimming



- Hold the trimmer head just above the ground at an angle. It is the end of the cord that does the work. Let the cord work at its own pace. Never press the cord into the area to be cut.

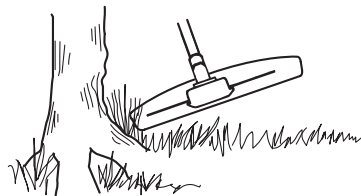


- The cord can easily remove grass and weeds up against walls, fences, trees and borders, however it can also damage sensitive bark on trees and bushes, and damage fence posts.
- Reduce the risk of damaging plants by shortening the cord to 10-12 cm and reducing the engine speed.

Clearing



- The clearing technique removes all unwanted vegetation. Keep the trimmer head just above the ground and tilt it. Let the end of the cord strike the ground around trees, posts, statues and the like. CAUTION! This technique increases the wear on the cord.



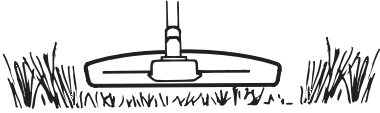
- The cord wears quicker and must be fed forward more often when working against stones, brick, concrete, metal fences, etc., than when coming into contact with trees and wooden fences.
- When trimming and clearing you should use less than full throttle so that the cord lasts longer and to reduce the wear on the trimmer head.

SAFETY INSTRUCTIONS

Cutting



- The trimmer is ideal for cutting grass that is difficult to reach using a normal lawn mower. Keep the cord parallel to the ground when cutting. Avoid pressing the trimmer head against the ground as this can ruin the lawn and damage the tool.

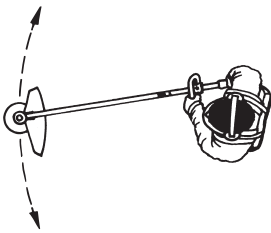


- Do not allow the trimmer head to constantly come into contact with the ground during normal cutting. Constant contact of this type can cause damage and wear to the trimmer head.

Sweeping



- The fan effect of the rotating cord can be used for quick and easy clearing up. Hold the cord parallel to and above the area to be swept and move the tool to and fro.



- When cutting and sweeping you should use full throttle to obtain the best results.



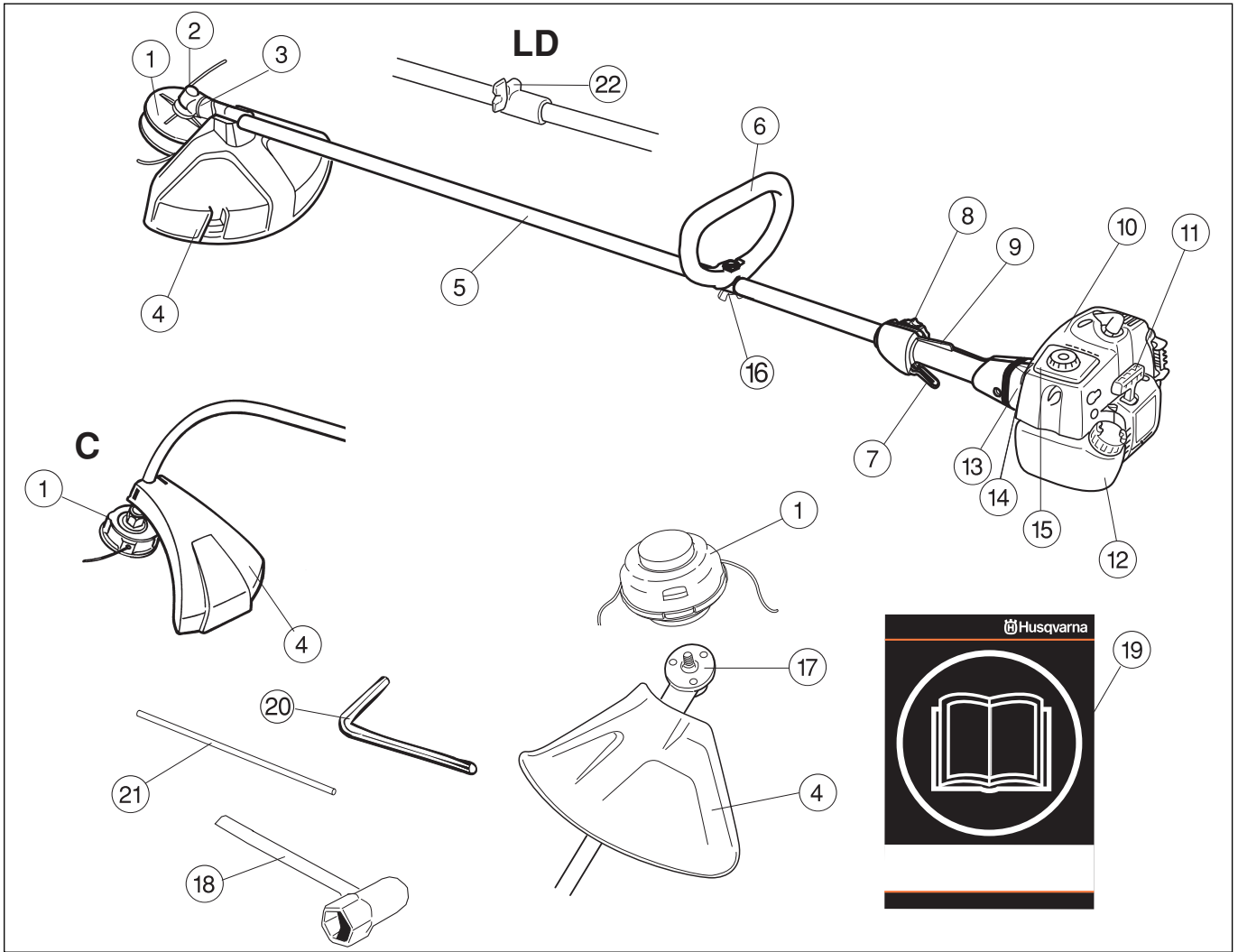
WARNING! Neither the operator of the machine nor anyone else may attempt to remove the cut material while the engine is running or the blade is rotating, as this can result in serious injury. Stop the engine and blade before you remove material that has wound around the blade shaft as otherwise there is a risk of injury. The bevel gear can get hot during use and may remain so for a while afterwards. You could get burnt if you touch it.



WARNING! Watch out for thrown objects. Always wear eye protection. Never lean over the cutting attachment guard. Stones, rubbish, etc. can be thrown up into the eyes causing blindness or serious injury.

Keep unauthorised persons at a distance. Children, animals, onlookers and helpers should be kept outside the safety zone of 15 m. Stop the machine immediately if anyone approaches.

WHAT IS WHAT?



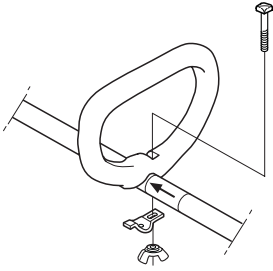
What is what?

- | | |
|----------------------------|----------------------------|
| 1 Trimmer head | 12 Fuel tank |
| 2 Grease filler cap | 13 Choke control |
| 3 Bevel gear | 14 Air purge |
| 4 Cutting attachment guard | 15 Air filter cover |
| 5 Shaft | 16 Handle adjustment |
| 6 Loop handle | 17 Drive disc |
| 7 Throttle control | 18 Socket spanner |
| 8 Stop switch | 19 Operator's manual (EPA) |
| 9 Throttle lock | 20 Allen key |
| 10 Cylinder cover | 21 Locking pin |
| 11 Starter handle | 22 Shaft coupling |

ASSEMBLY

Fitting the loop handle

- Position the handle on the shaft. Note that the handle must be mounted below the arrow on the shaft.



- Fit the screw, securing plate and wing nut as shown in the diagram.
- Tighten the wing nut.

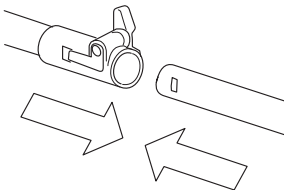
Assembling and dismantling the two-piece shaft

(123LD)

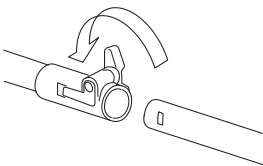


Assembly:

- Make sure the knob is loose.

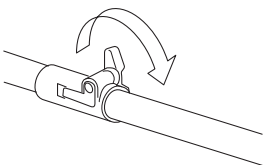


- Align the cut-out in the lower part of the shaft with the coupling locking tab on the upper part of the shaft. Then lock the sections together.
- Tighten the knob.



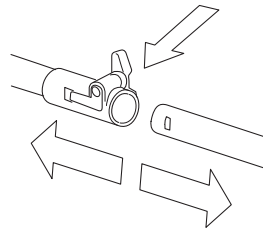
Dismantling:

- Undo the knob (at least three turns).



- Push the knob towards the coupling.
- Carefully twist the lower half of the shaft to unlock it.

- Hold both parts of the shaft and pull the lower part of the shaft out of the coupling.



WARNING! Never use a cutting attachment without an approved guard. See the chapter on Technical data. If an incorrect or faulty guard is fitted this can cause serious personal injury.

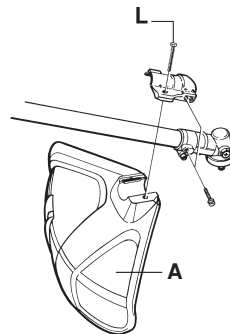
Fitting the trimmer guard and trimmer head

(123L, 123LD)

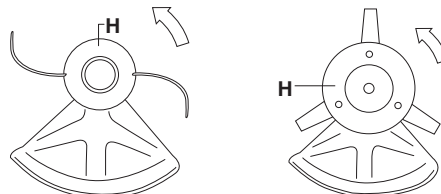


- Fit the correct trimmer guard (A) for use with the trimmer head.

Hook the trimmer guard/combination guard onto the fitting on the shaft and secure with the bolt (L).



- Fit the drive disc on the output shaft.
- Turn the blade shaft until one of the holes in the drive disc aligns with the corresponding hole in the gear housing.
- Insert the locking pin in the hole to lock the shaft.
- Screw on the trimmer head/plastic blades (H) in the opposite direction to the direction of rotation.

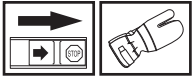


- To dismantle, follow the instructions in the reverse order.

ASSEMBLY

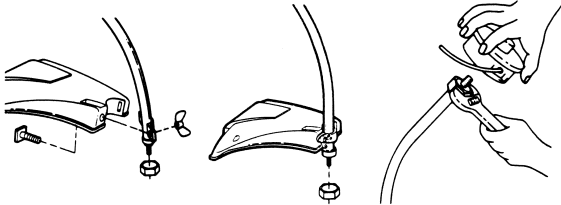
Fitting the trimmer guard and trimmer head

(123C)



Guard

- Fit the guard as shown in the diagram. Tighten securely.



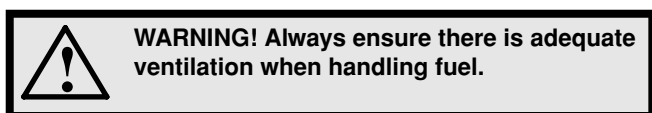
Trimmer head

- Fit the dust cup on the shaft. The nut must be completely covered by the dust cup.
- Hold the dust cup with a spanner to prevent the shaft from rotating.
- Screw the trimmer head onto the shaft.

FUEL HANDLING

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.



Gasoline



CAUTION! Always use high grade unleaded oil mixed gasoline (minimum 87 RON). If your machine is equipped with a catalytic converter (see chapter on Technical data) always use a good quality unleaded petrol/oil mixture. Leaded petrol will destroy the catalytic converter and it will no longer serve its purpose.

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 rating is 87. If you run the engine on lower octane rating than 87 so-called “knocking” can occur. This leads to an increased engine temperature, which can result in a serious engine breakdown.
- When working at continuous high revs a higher octane rating is recommended.

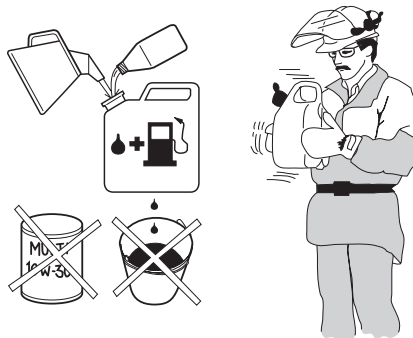
Two-stroke oil

- For best results and performance use HUSQVARNA two-stroke oil, which is specially formulated for our two-stroke engines. Mixture 1:50 (2%).
- Never use two-stroke oil intended for water-cooled outboard engines, sometimes referred to as outboard oil.
- Never use oil intended for four-stroke engines.

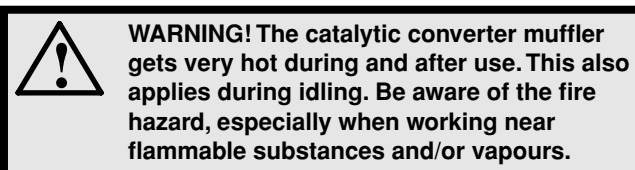
Gasoline, litre	Two-stroke oil, litre
	2% (1:50)
5	0,10
10	0,20
15	0,30
20	0,40
US gallon	US fl. oz.
1	2 1/2
2 1/2	6 1/2
5	12 7/8

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.
- **This engine is certified to operate on unleaded gasoline.**



FUEL HANDLING

Fuelling

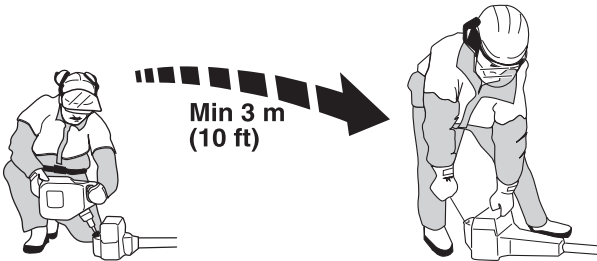


WARNING! Taking the following precautions, will lessen the risk of fire:

Do not smoke or place hot objects near fuel.

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

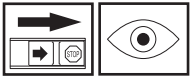
When refuelling, open the fuel cap slowly so that any excess pressure is released gently. Tighten the fuel cap carefully after refuelling. Always move the machine away from the refuelling area before starting.



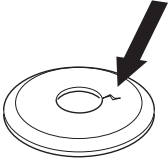
- Clean the area around the fuel cap. Contamination in the tank can cause operating problems.
- Ensure that the fuel is well mixed by shaking the container before filling the tank.

STARTING AND STOPPING

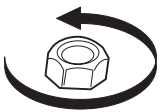
Check before starting



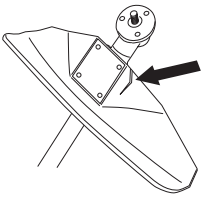
- Check that the support flange is not cracked due to fatigue or due to being tightened too much. Discard the support flange if it is cracked.



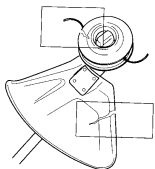
- Ensure the locking nut has not lost its captive force. The nut lock should have a locking force of at least 1.5 Nm. The tightening torque of the locking nut should be 35-50 Nm.



- Check that the blade guard is not damaged or cracked. Replace the blade guard if it is exposed to impact or is cracked.



- Check that the trimmer head and trimmer guard are not damaged or cracked. Replace the trimmer head or trimmer guard if they have been exposed to impact or are cracked.



- Never use the machine without a guard nor with a defective guard.

Starting and stopping



WARNING! The complete clutch cover and shaft must be fitted before the machine is started, otherwise the clutch can come loose and cause personal injury.

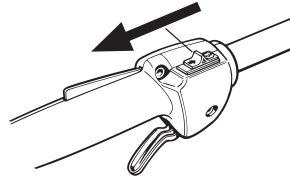
Always move the machine away from the refuelling area before starting. Place the machine on a flat surface. Ensure the cutting attachment cannot come into contact with any object.

Make sure no unauthorised persons are in the working area, otherwise there is a risk of serious personal injury. The safety distance is 15 metres.

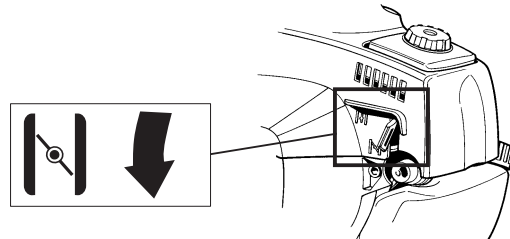
Cold engine

Ignition:

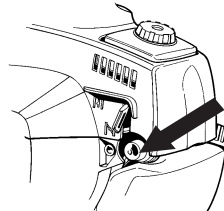
Set the stop switch to the start position.



Choke: Set the choke control in the choke position.



Air purge: Press the air purge diaphragm repeatedly until fuel begins to fill the diaphragm. The diaphragm need not be completely filled.

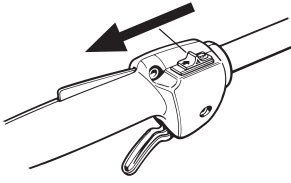


STARTING AND STOPPING

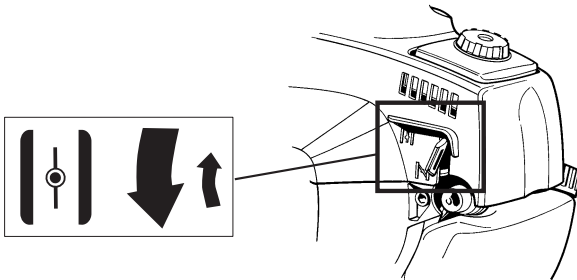
Warm engine

Ignition:

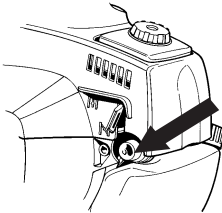
Set the stop switch to the start position.



Choke: Set the throttle to the start position by moving the choke control to the choke position and then returning it to its original position.

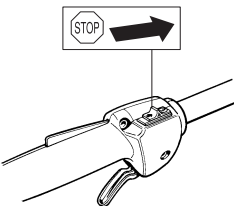


Air purge: Press the air purge diaphragm repeatedly until fuel begins to fill the diaphragm. The diaphragm need not be completely filled.



Stopping

Stop the engine by switching off the ignition.



WARNING! When the engine is started with the choke in either the choke or start throttle positions the cutting attachment will start to rotate immediately.

Starting

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**

Repeat pulling the cord until the engine starts. When the engine starts, return choke control to run position and apply full throttle; the throttle will automatically disengage from the start setting.

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.



MAINTENANCE

Carburettor

Your Husqvarna product has been designed and manufactured to specifications that reduce harmful emissions. After the engine has used 8-10 tanks of fuel the engine will be run-in. To ensure that it continues to run at peak performance and to minimise harmful exhaust emissions after the running-in period, ask your dealer/service workshop (who will have a rev counter at their disposal) to adjust your carburettor.



WARNING! The complete clutch cover and shaft must be fitted before the machine is started, otherwise the clutch can come loose and cause personal injury.

Function

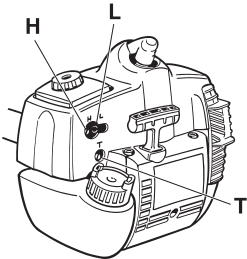


- The carburettor governs the engine's speed via the throttle control. Air and fuel are mixed in the carburettor. The air/fuel mixture is adjustable. Correct adjustment is essential to get the best performance from the machine.
- The setting of the carburetor means that the engine is adapted to local conditions, for example, the climate, altitude, fuel and the type of 2-stroke oil.
- The carburettor has three adjustment controls:

L = Low speed jet

H = High speed jet

T = Idle adjustment screw



- The L and H-jets are used to adjust the supply of fuel to match the rate that air is admitted, which is controlled with the throttle. If they are screwed clockwise the air/fuel ratio becomes leaner (less fuel) and if they are turned anti-clockwise the ratio becomes richer (more fuel). A lean mixture gives a higher engine speed and a rich mixture gives a lower engine speed.
- The T-screw regulates the throttle setting at idle speed. If the T-screw is turned clockwise this gives a higher idle speed; turning it anti-clockwise gives a lower idle speed.

Basic setting

- The basic carburettor settings are adjusted during testing at the factory. The basic setting is richer than the optimal setting and should be maintained for the first few hours the machine is in use. The carburettor should then be finely adjusted. Fine adjustment should be carried out by a skilled technician.

CAUTION! If the cutting attachment rotates when the engine is idling the idle adjustment screw T should be turned anti-clockwise until the cutting attachment stops.

Rec. idle speed 2700 rpm

Recommended max. 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.

Fine adjustment

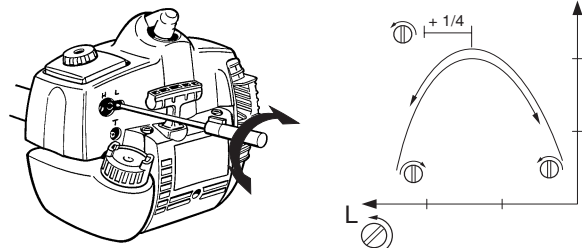
- When the machine has been "run-in" the carburettor should be finely adjusted. **The fine adjustment should be carried out by a qualified person.** First adjust the L-jet, then the idling screw T and then the H-jet.

Conditions

- Before any adjustments are made, make sure that the air filter is clean and the air filter cover is fitted. If you adjust the carburettor when the air filter is dirty it will result in a leaner mixture when the filter is finally cleaned. This can lead to serious engine damage.
- Carefully turn both jets, L and H, so that they are midway between fully screwed in and fully screwed out.
- Do not attempt to adjust the L and H jets beyond either stop as this could cause damage.
- Now start the machine according to the starting instructions and let it warm up for 10 minutes.

Low speed jet L

Try to find the highest idling speed, turning the low speed needle L clockwise respectively counter-clockwise. When the highest speed has been found, turn the low speed needle L 1/4 turn counter-clockwise.

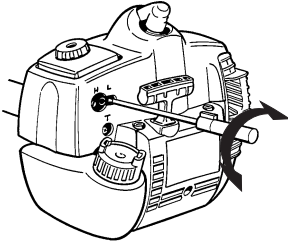


CAUTION! If the cutting attachment rotates when the engine is idling the idle adjustment screw T should be turned anti-clockwise until the cutting attachment stops.

MAINTENANCE

Fine adjustment of the idle speed T

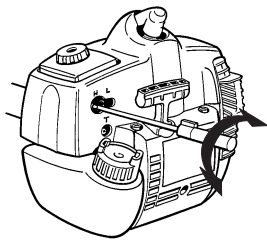
Adjust the idle speed using the idle adjustment screw T, if it is necessary to readjust. First turn the idle adjustment screw T clockwise until the cutting attachment starts to rotate. Then turn the screw anticlockwise until the cutting attachment stops. The idle speed is correctly adjusted when the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



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.

High speed jet H

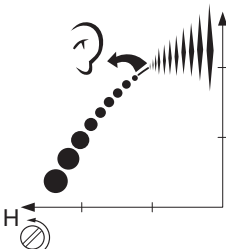
The high speed jet H affects the engine power, speed, temperature and fuel consumption. If the high speed jet H is set too lean (screwed in too far) the engine speed will be too high and cause engine damage. Do not let the engine run at full speed for more than 10 seconds.



Apply full throttle and turn the high speed jet H very slowly clockwise until the engine slows down. Then turn the high speed jet H very slowly anticlockwise until the engine starts to run unevenly. Now turn the high speed jet H slowly clockwise a little way until the engine runs smoothly.

Note that the engine should not be under load when you adjust the high speed jet H. You should therefore remove the cutting attachment, nut, support flange and drive disc before adjusting the high speed jet H.

The high speed jet H is adjusted correctly when the machine burbles a little. If the machine races then the setting is too lean. If the engine produces a lot of smoke and burbles a lot then the setting is too rich.



CAUTION! For optimum adjustment of the carburettor, contact a qualified dealer/service workshop that has a revolution counter at their disposal.

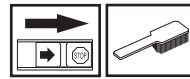
Correctly adjusted carburettor

When the carburettor is correctly adjusted the machine will accelerate without hesitation and burble a little at maximum speed. It is also important that the cutting attachment does not rotate at idle. If the low speed jet L is set too lean it may cause starting difficulties and poor acceleration.

If the high speed jet H is set too lean it will result in less power, less performance, poor acceleration and/or damage to the engine.

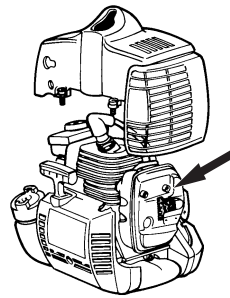
If both the L and H jets are set too rich it will result in acceleration problems or too low a working speed.

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, you should clean the mesh at least once a week. This is best done with a wire brush. On mufflers without a catalytic converter the mesh should be cleaned weekly, or replaced if necessary. On mufflers fitted with a catalytic converter the mesh should be checked, and if necessary cleaned, monthly. **If the mesh is damaged it should be replaced.**

If the mesh 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 mesh will cause the machine to overheat and result in damage to the cylinder and piston.



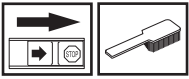
CAUTION! Never use a machine with a defective muffler.



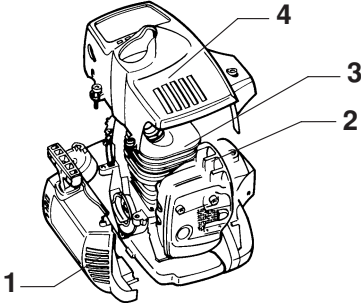
WARNING! Mufflers fitted with catalytic converters get very hot during use and remain so for some time after stopping. This also applies at idle speed. Contact can result in burns to the skin. Remember the risk of fire!

MAINTENANCE

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 Air intake on the starter.
- 2 Fins on the flywheel.
- 3 Cooling fins on the cylinder.
- 4 Cylinder cover (directs cold air over the cylinder).

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.

Spark plug

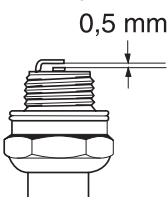


The spark plug condition is influenced by:

- Incorrect carburettor 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.



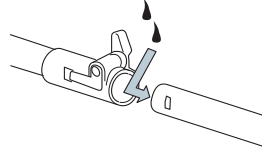
CAUTION! Always use the recommended spark plug type! Use of the wrong spark plug can damage the piston/cylinder. Check that the spark plug is fitted with a suppressor.

Two-piece shaft

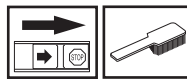
(123LD)



The drive shaft end in the lower shaft should be lubricated with grease every 30 hours. There is a risk that the drive shaft ends (splined coupling) on models with two-piece shafts will seize if they are not lubricated regularly.

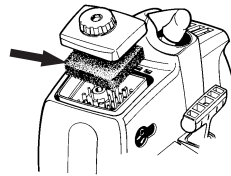


Air filter



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 fuel consumption.



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

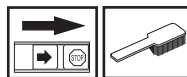
Cleaning the air filter

Remove the air filter cover and take out the filter. Wash it clean in warm, soapy water. 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. See instructions under the heading Oiling the air filter.

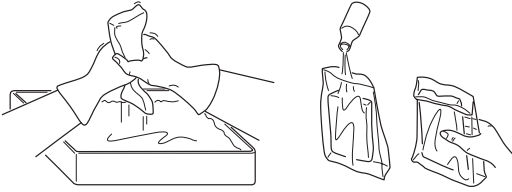
Oiling the air filter



Always use HUSQVARNA 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.

MAINTENANCE

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.

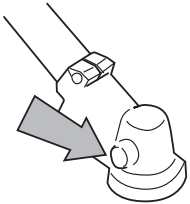


Bevel gear

(123L, 123LD)



The bevel gear is filled with the right quantity of grease at the factory. However, before using the machine you should check that the bevel gear is filled three-quarters full with grease. Use HUSQVARNA special grease.



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

CAUTION! Use only HUSQVARNA 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 HUSQVARNA.

Maintenance schedule

Below you will find some general maintenance instructions.

Daily maintenance

- Check throttle trigger and throttle trigger lockout function.
- Check that the stop switch works correctly.
- Check that there are no fuel leaks from the engine, tank or fuel lines.
- Check that the cutter does not rotate when the engine is idling.
- Clean the outside of the machine.
- Check that the harness is not damaged.
- Check that the blade guard is not damaged or cracked. Replace the blade guard if it is exposed to impact or is cracked.
- A non-balanced blade/trimmer head induces heavy vibrations that may damage the machine.

- Check that nuts and screws are tight.
- Check that the screws that hold the bevel gear are tight.

5

Weekly maintenance

- Check the starter and starter cord.
- Clean the carburettor area.
- Clean the outside of the spark plug. Remove it and check the electrode gap. Adjust the gap to 0.5 mm (.20"), or replace the spark plug. Check that the spark plug is fitted with a suppressor.
- Clean the cooling fins on the cylinder and check that the air intake near the starter is not blocked.
- Check that the bevel gear is filled with grease up to 3/4. Use special grease.
- Clean the air filter.

Monthly maintenance

- Clean the fuel tank.
- Clean the outside of the carburettor and the space around it.
- Clean the fan and the area around it.
- Check fuel hose for cracks or other damage. Change if necessary.
- Change the fuel filter in fuel tank.
- Check the clutch, clutch springs and the clutch drum for wear. Replace if necessary.
- Check electrical wires and connections.
- Replace the spark plug. Check that the spark plug is fitted with a suppressor.
- Change the air filter.
- Check and clean the spark arrestor mesh on the muffler (only applies to mufflers fitted with a catalytic converter).

TECHNICAL DATA

Technical data

	123C	123L	123LD
Engine			
Cylinder volume, cu.in/cm ³	1,50/24,5	1,50/24,5	1,50/24,5
Cylinder bore, inch/mm	1,34/34,0	1,34/34,0	1,34/34,0
Stroke, inch/mm	1,06/27	1,06/27	1,06/27
Idle speed, rpm	2700	2700	2700
Recommended max. speed, rpm	11000-11700	11000-11700	11000-11700
Speed of output shaft, rpm	11700	8014	8014
Max. engine output, acc. to ISO 8893, kW/ rpm	0,65/7800	0,65/7800	0,65/7800
Catalytic converter muffler	Yes	Yes	Yes
Speed-regulated ignition system	No	No	No
Ignition system			
Manufacturer/type of ignition system	WalbroMB/ SEM AM49	WalbroMB/ SEM AM49	WalbroMB/ SEM AM49
Spark plug	Champion RCJ 7Y	Champion RCJ 7Y	Champion RCJ 7Y
Electrode gap, inch/mm	0,02/0,5	0,02/0,5	0,02/0,5
Fuel and lubrication system			
Manufacturer/type of carburettor	Zama C1Q	Zama C1Q	Zama C1Q
Fuel tank capacity, US pint/litre	1,06/0,5	1,06/0,5	1,06/0,5
Weight			
Weight without fuel, cutting attachment and guard, Lbs/kg	8,8/4,0	9,3/4,2	9,5/4,3
Sound levels			
(see note 1)			
Equivalent sound pressure level at the user's ear, measured according to ANSI B175.3-1997, dB(A), min/max:	91/98	91/97	91/97
Vibration levels			
Vibration levels at handles, measured according to ANSI B175.3-1997, m/s ²			
At idle, left/right handles, min.:	2,7/1,5	1,8/1,4	1,8/1,4
At idle, left/right handles, max.:	3,5/1,7	2,8/1,8	2,8/1,8
At max. speed, left/right handles, min.:	5,1/9,3	3,5/4,1	7,8/6,2
At max. speed, left/right handles, max.:	7,8/10,9	8,3/9,1	10,3/12,1

Note 1: Equivalent noise pressure level is calculated as the time-weighted energy total for noise pressure levels under various working conditions with the following time distribution: 1/2 idle and 1/2 max. speed.

NOTE! Noise pressure at the user's ear and vibration on the handles are measured with all the machine's approved cutting equipment fitted. The table indicates the highest and lowest values.

TECHNICAL DATA

123C		
Approved accessories	Type	Cutting attachment guard, Art. no.
Arbor shaft thread 3/8 RH		
Trimmer head	Trimmy Hit VII (R)	537 02 61-01

123L, 123LD		
Approved accessories	Type	Cutting attachment guard, Art. no.
Arbor shaft thread M10 LH		
Trimmer head	T35	503 93 42-02 / 503 97 71-01
Plastic blades	Tricut Ø 300 mm	503 93 42-02

Attachments	Art No.	Use with
Clean sweep attachment with shaft	537 19 67-01	123LD
Hedge trimmer attachment with shaft	537 19 66-01	123LD
Edger attachment with shaft	537 19 69-01	123LD
Saw attachment with shaft	537 18 33-16	123LD
Saw attachment without shaft	537 18 33-11	123L, 123LD

FEDERAL EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The EPA (The US Environmental Protection Agency), Environment Canada and Husqvarna Forest & Garden are pleased to explain the emissions control system warranty on your 2001 and later small nonroad engine. In U.S. and Canada, new small nonroad engines must be designed, built and equipped to meet the federal stringent anti-smog standards. Husqvarna Forest & Garden must warrant the emission control system on your small nonroad engine for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your unit. Your emission control system includes Parts such as the carburetor and the ignition system. Where a warrantable condition exists, Husqvarna Forest & Garden will repair your small nonroad engine at no cost to you. Expenses covered under warranty include diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE

The 2001 and later small nonroad engines are warranted for two years. If any emission related part on you engine (as listed above) is defective, the part will be repaired or replaced by Husqvarna Forest & Garden.

OWNER'S WARRANTY RESPONSIBILITIES

As the small nonroad engine owner, you are responsible for the performance of the required maintenance listed in your Operator's Manual. Husqvarna Forest & Garden recommends that you retain all receipts covering maintenance on your small nonroad engine, but Husqvarna Forest & Garden cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance. As the small nonroad engine owner, you should, however, be aware that Husqvarna Forest & Garden may deny you warranty coverage if your small nonroad engine or a part of it has failed due to abuse, neglect, improper maintenance, unapproved modifications or the use of parts not made or approved by the original equipment manufacturer. You are responsible for presenting your small nonroad engine to a Husqvarna Forest & Garden authorized servicing dealer as soon as a 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 Husqvarna Forest & Garden at 1-800-487-5963.

WARRANTY COMMENCEMENT DATE

The warranty period begins on the date small nonroad engine is delivered.

LENGTH OF COVERAGE

Husqvarna Forest & Garden warrants to the initial owner and each subsequent purchaser that the engine is free from defects in materials and workmanship which cause 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 will be performed at no charge to the owner at an approved Husqvarna Forest & Garden servicing dealer. If you have any questions regarding

your warranty rights and responsibilities, you should contact your nearest authorized servicing dealer or call Husqvarna Forest & Garden at 1-800-487-5963.

WARRANTY PERIOD Any warranted part which is not scheduled for replacement as required maintenance, or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted for 2 years. Any warranted part which is scheduled for replacement as required maintenance shall be warranted for the period of time up to the first scheduled replacement point for that part.

DIAGNOSIS The owner shall not be charged for diagnostic labor which leads to the determination that a warranted part is defective, if the diagnostic work is performed at an approved Husqvarna Forest & Garden servicing dealer.

CONSEQUENTIAL DAMAGES Husqvarna Forest & Garden may be liable for damages to other engine components caused by the failure of a warranted part still under warranty.

WHAT IS NOT COVERED

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

ADD -ON OR MODIFIED PARTS

The use of add-on or modified parts can be grounds for disallowing a warranty claim. Husqvarna Forest & Garden is not liable to cover failures of warranted parts caused by the use of add-on or modified parts.

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 Husqvarna Forest & Garden at 1-800-487-5963.

WHERE TO GET WARRANTY SERVICE

Warranty services or repairs shall be provided at all Husqvarna Forest & Garden authorized servicing dealers.

MAINTENANCE, REPLACEMENT AND REPAIR OF EMISSION-RELATED PARTS

Any Husqvarna Forest & Garden approved replacement part used in the performance of any warranty maintenance or repairs on emission-related parts, will be provided without charge to the owner if the part is under warranty.

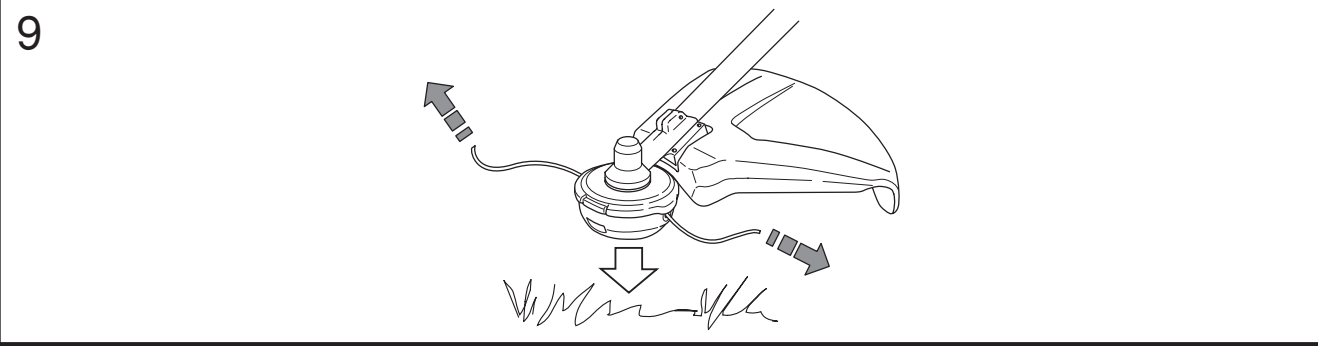
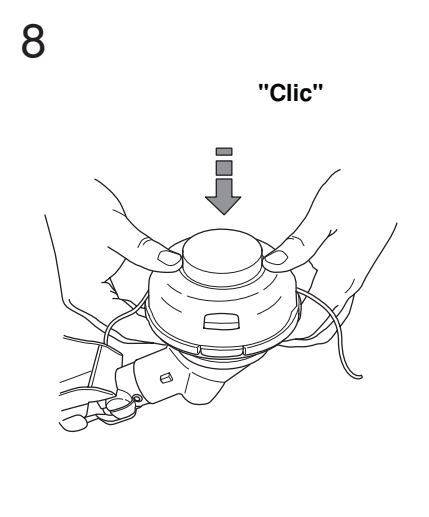
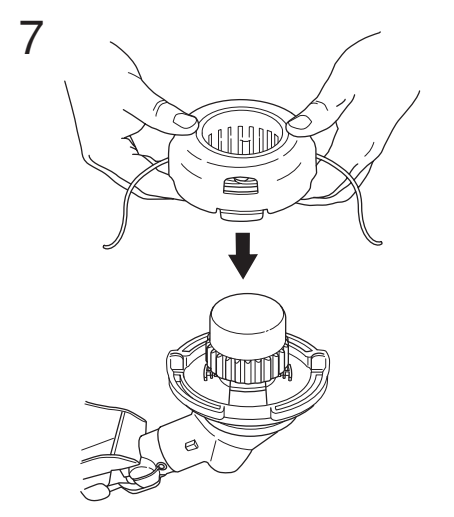
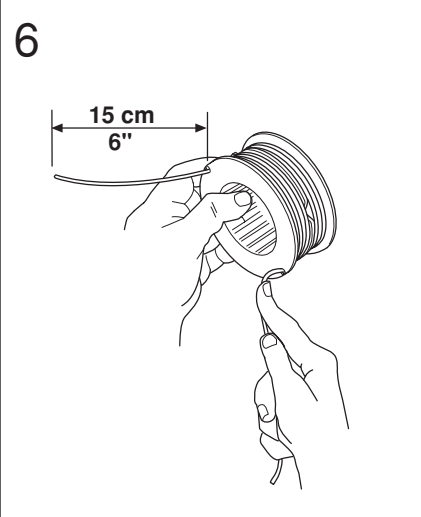
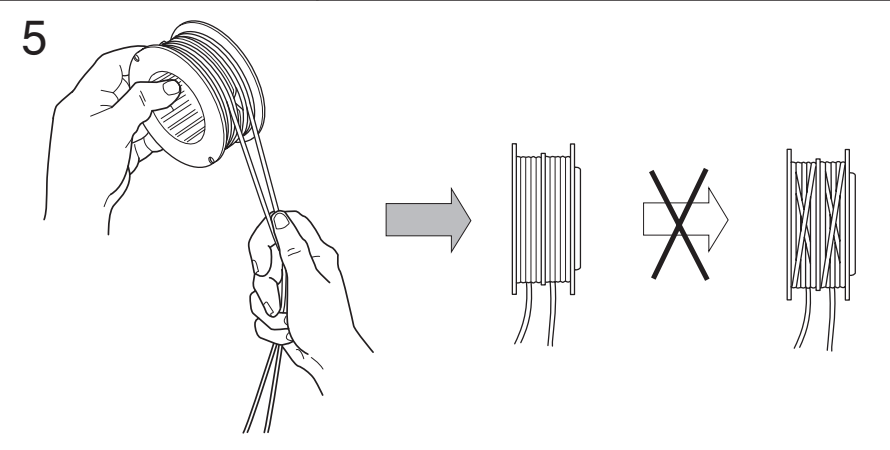
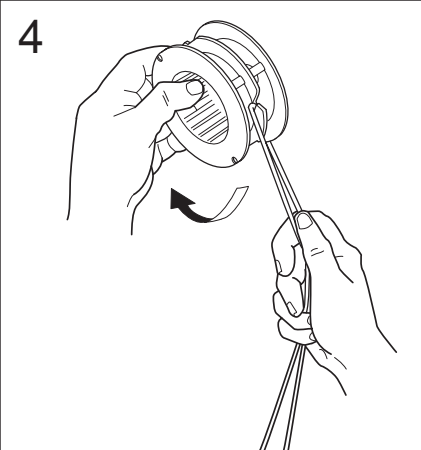
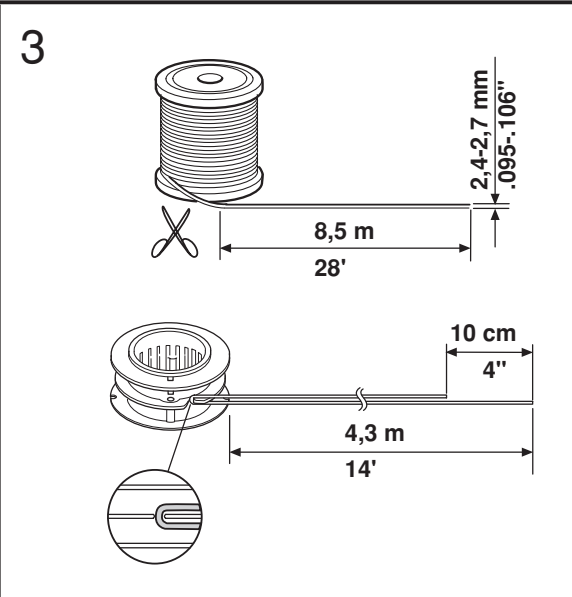
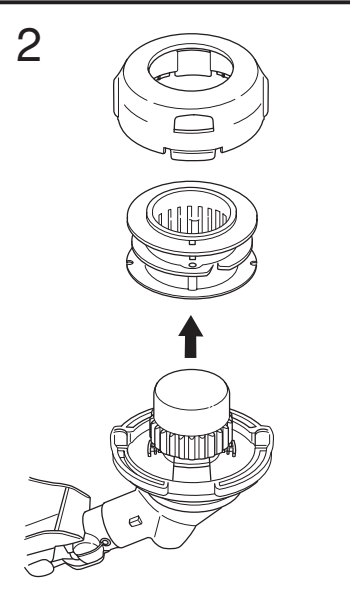
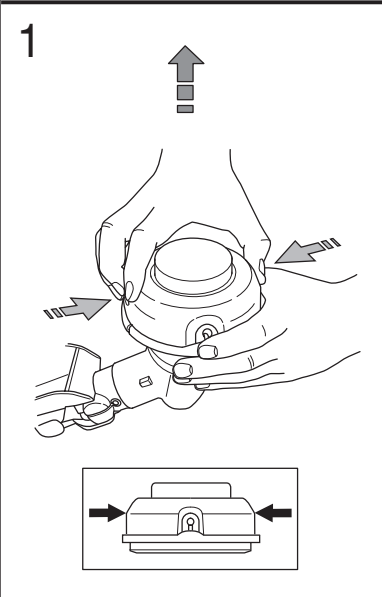
EMISSION CONTROL WARRANTY PARTS LIST

- 1 Carburetor and internal parts
- 2 Intake pipe, airfilter holder and carburetor bolts.
- 3 Airfilter and fuelfilter covered up to maintenance schedule.
- 4 Ignition System
 - 1 Spark Plug, covered up to maintenance schedule
 - 2 Ignition Module
- 5 Muffler with catalytic converter

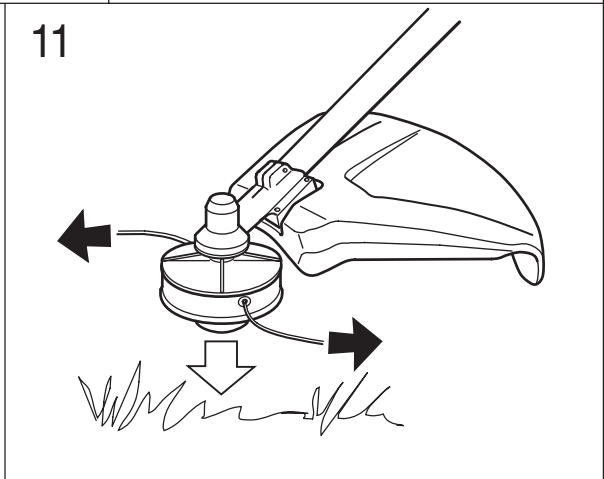
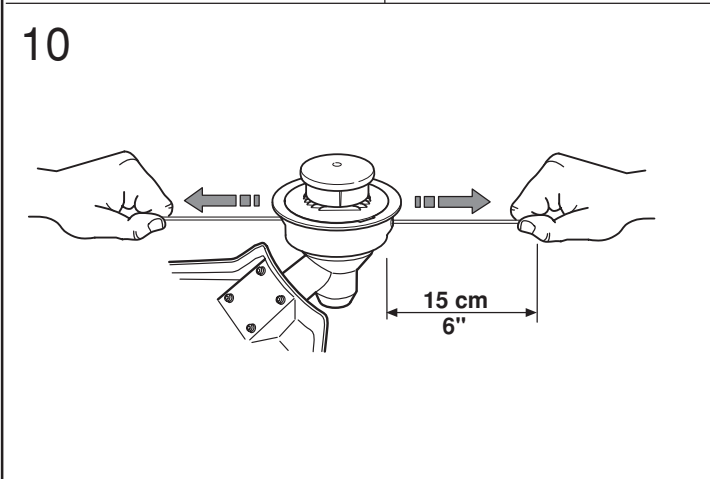
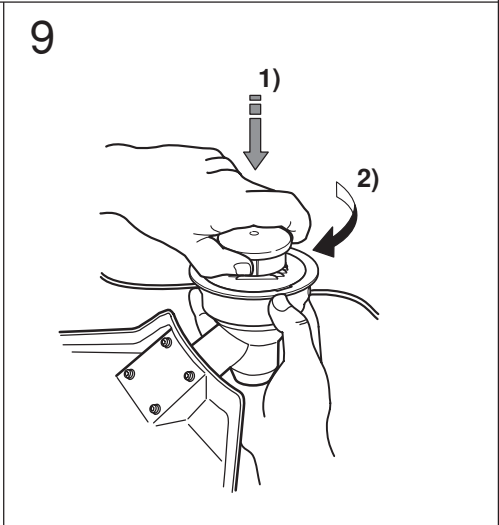
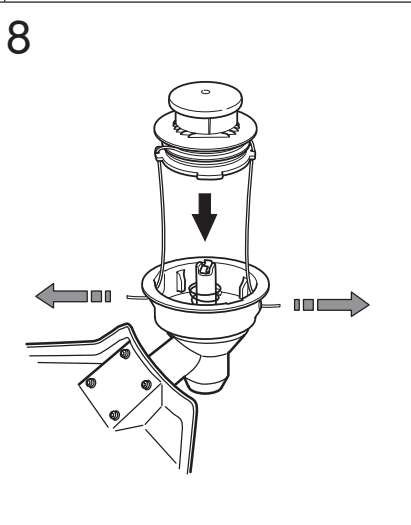
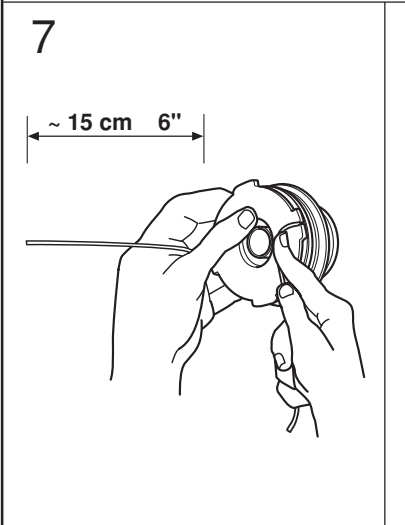
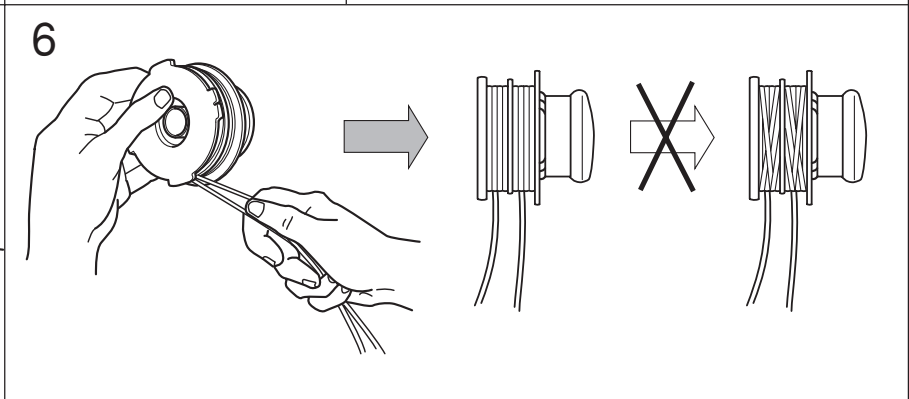
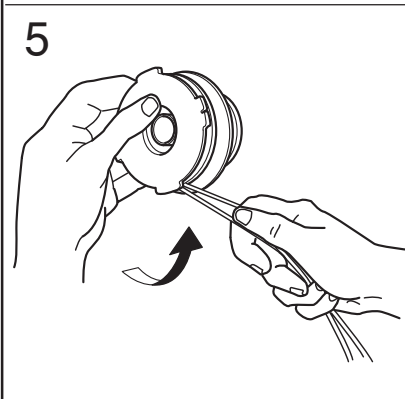
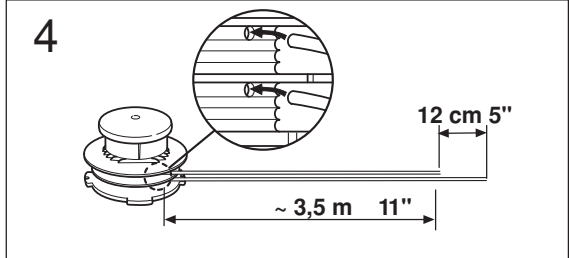
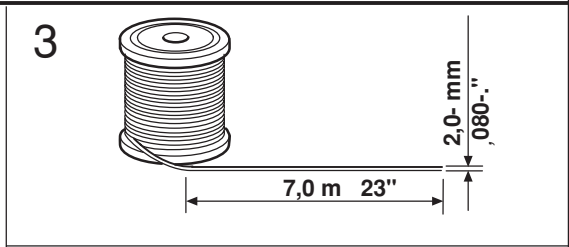
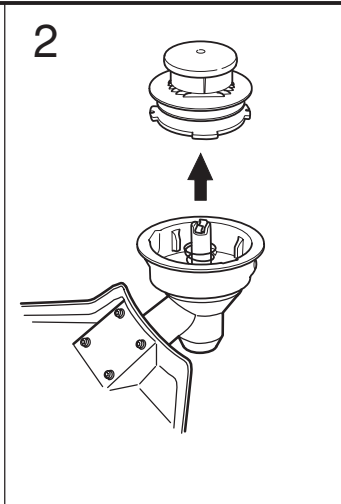
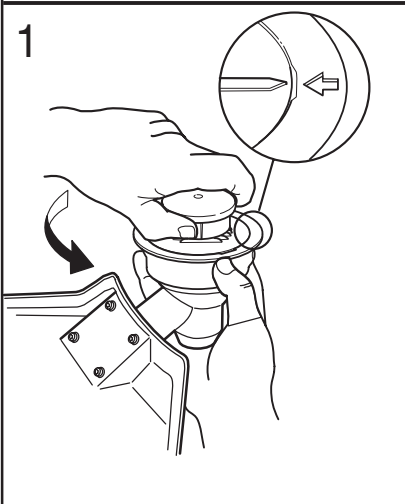
MAINTENANCE STATEMENT

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

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Trimmy VII



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