



Operator's manual (EPA)
123HD60
123HD65X



Please read these instructions carefully and make sure you understand them before using the machine.

English

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.



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.



Protective goggles or a visor must be worn.



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Note the following before starting:

Please read the operator's manual carefully.

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



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.

IMPORTANT ENGINE INFORMATION

尚Husqvarna

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

This label certifies that the product has been certified in accordance with American exhaust requirements EPA 2.

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.



WARNING

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

INTRODUCTION

Dear customer!

Congratulations on your choice to buy a Husqvarna product! Husqvarna is based on a tradition that dates back to 1689, when the Swedish King Karl XI ordered the construction of a factory on the banks of the Huskvarna River, for production of muskets. The location was logical, since water power was harnessed from the Huskvarna River to create the water-powered plant. During over 300 years of continuous operation, the Husqvarna factory has produced a lot of different products, from wood stoves to modern kitchen appliances, sewing machines, bicycles, motorcycles etc. In 1956, the first motor driven lawn mowers appeared, followed by chain saws in 1959, and it is within this area Husqvarna is working today.

Today Husqvarna is one of the leading manufacturers in the world of forest and garden products, with quality as our highest priority. We develop, manufacture and market high quality motor driven products for forestry and gardening as well as for building and construction industry.

Your purchase gives you access to professional help with repairs and service whenever this may be necessary. If the retailer who sells your machine is not one of our authorized dealers, ask for the address of your nearest servicing dealer.

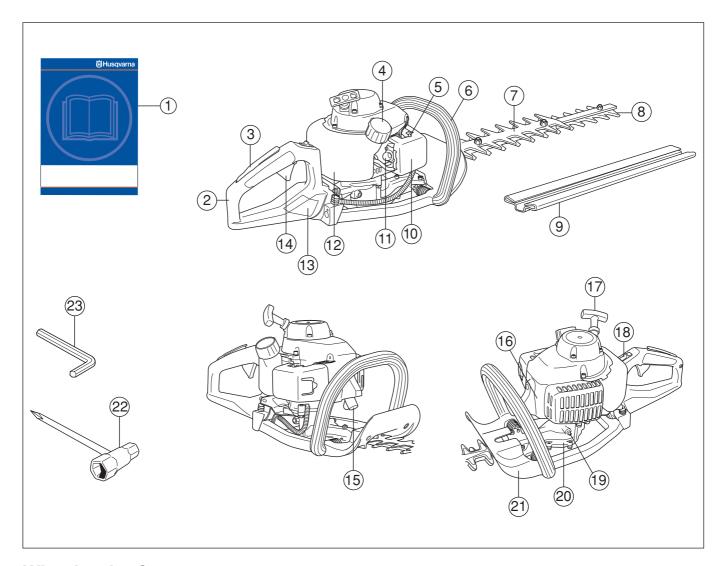
It is our wish that you will be satisfied with your product and that it will be your companion for a long time. Think of this operator's manual as a valuable document. By following its' content (using, service, maintenance etc) the life span and the second-hand value of the machine can be extended. If you ever lend or sell this machine, make sure that the borrower or buyer gets the operator's manual, so they will also know how to properly maintain and use it.

Thank you for using a Husqvarna product.

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.

For customer assistance, contact us at our website: www.usa.husqvarna.com

WHAT IS WHAT?



What is what?

- 1 Operator's manual
- 2 Handle
- 3 Throttle lock
- 4 Fuel cap
- 5 Choke control
- 6 Front handle
- 7 Blade guard
- 8 Blades
- 9 Transport guard
- 10 Air filter cover
- 11 Air purge
- 12 Fuel tank

- 13 Lock for handle (123HD65)
- 14 Throttle control
- 15 Spark plug cap and spark plug
- 16 Cylinder cover
- 17 Starter handle
- 18 Stop switch
- 19 Grease filler cap, bevel gear
- 20 Gear
- 21 Hand guard
- 22 Combination spanner
- 23 Allen key

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! 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.



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!

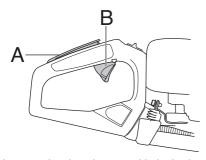
All servicing and repair work on the machine requires special training. This is especially true of the machine's safety equipment. If your machine fails any of the checks described below you must contact your service agent. When you buy any of our products we guarantee the availability of professional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



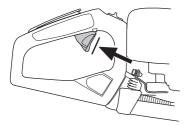
WARNING! Never use a machine with faulty safety equipment. The machine's safety equipment must be checked and maintained as described in this section. If your machine fails any of these checks contact your service agent to get it repaired.

Throttle lockout

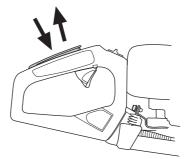
The throttle lockout is designed to prevent accidental operation of the throttle control. When you press the lock (A) (i.e. when you grasp the handle) it releases the throttle control (B). When you release the handle the throttle control and the throttle lockout both move back to their original positions. 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.



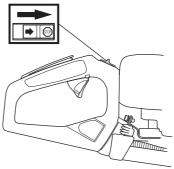
Check that the throttle control and throttle lockout move freely and that the return springs work properly.

See instructions under the heading Start. Start the hedge trimmer and apply full throttle. Release the throttle 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.



Stop switch

Use the stop switch to switch off the engine.



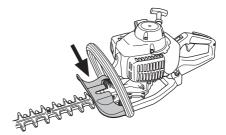
Start the engine and make sure the engine stops when you move the stop switch to the stop setting.

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 system via a four springs.



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.



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!

Blades





To ensure good cutting results it is important that the contact pressure between the blades is correct. The contact pressure is adjusted by turning the screws on the underside of the bar clockwise as far as they will go. Then turn the screws anticlockwise a 1/4 turn. Lock the screws using the locking nut on the top of the bar. Check that the screws are loose enough to allow the washers under the screw heads to slide sideways.



When the blades are correctly adjusted the play between the blades should be 0,2–0,4 mm, measured at the screws.

The edges of the blades are too hard to be filed. Dull blades should be sharpened using a grinder.

Replace the blades if they are bent or damaged.

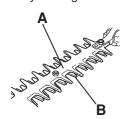
Blade guard







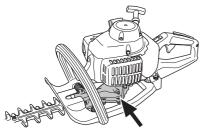
The blade guard (A) is intended to protect against any part of the body coming into contact with the blades (B).



Check that the blade guard is not damaged or distorted. Replace the blade guard 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

- 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 been 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 HUSQVARNA twostroke engine oil, which is specially formulated for our aircooled 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 HUSQVARNA two-stroke oil.

Gasoline, litre	Two-stroke oil, litre		
Gasonne, nue	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		

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.

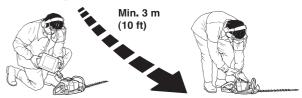
Always stop the engine and let it cool for a few minutes before refuelling.

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





- 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



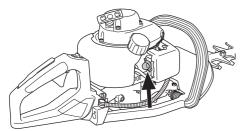


WARNING! The complete clutch cover and gear housing must be fitted before the machine is started, otherwise the clutch may come loose and cause personal injury.

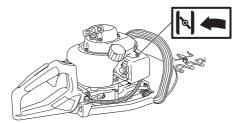
Always move the machine about 3 metres from the refuelling position before starting. Place the machine on a firm surface. Remember that the blades may start to move when the engine is started. Make sure the blades cannot come into contact with any object. Make sure that no unauthorised persons are in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

Cold engine

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

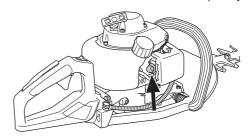


Choke: Set the choke control in the choke position.



Warm engine

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



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**

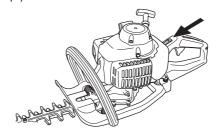
Push the choke control back to its original position as soon as the engine fires, and continue trying to start until the engine starts

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



Stopping

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



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.
- 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.
- 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

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

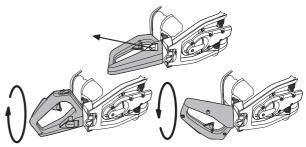
- Work with a swinging action from the bottom upwards when trimming sides.
- · Adjust the throttle setting to suit the load.
- When trimming a hedge the engine should always face away from the hedge.
- Hold the machine as close to your body as possible to get the best balance.



- · 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.

123HD65

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



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

Carburetor

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 gear housing must be fitted before the machine is started, otherwise the clutch may come loose and cause personal injury.

Function



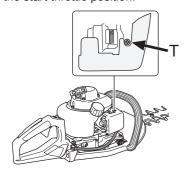
- The carburetor governs the engine's speed via the throttle control. Air and fuel are mixed in the carburetor. The air/ fuel mixture is adjustable. Correct adjustment is essential to get the best performance from the machine.
- The setting of the carburetor means that the engine is adapted to local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

Adjusting the idle 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.

Before any adjustments are made, make sure that the air filter is clean and the air filter cover is fitted.

Adjust the idle speed with the idle adjustment screw T, if adjustment is necessary. First turn the idle adjustment screw T clockwise until the blades start to move. Then turn the idle adjustment screw T anticlockwise until the blades stop. The idle speed is correctly adjusted when the engine runs smoothly in every position. There should also be a clear margin to the speed at which the blades start to move. The blades must also remain stationary when the choke control is in the start throttle position.





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.

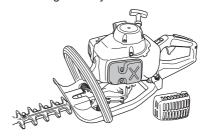
Muffler





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 screen. If your machine has this type of muffler, you should clean the screen at least once a week. This is best done with a wire brush.

On mufflers without a catalytic converter the screen should be cleaned weekly, or replaced if necessary. On mufflers fitted with a catalytic converter the screen should be checked, and if necessary cleaned, monthly. If the screen is damaged it should 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. See also instructions under the heading Maintenance.

CAUTION! Never use a machine with a defective muffler.



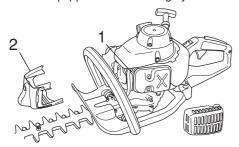
WARNING! Mufflers fitted with catalytic converters get very hot during use and remain so for some time after stopping. This also applies at idle speed. Contact can result in burns to the skin. Remember the risk of fire!

Cooling system





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



The cooling system consists of:

- Cooling fins on the cylinder.
- 2 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

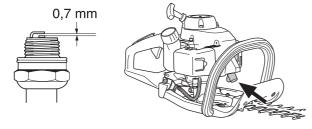


The spark plug condition is influenced by:

- · Incorrect 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 0.7 mm (0,028"). 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





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.

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.

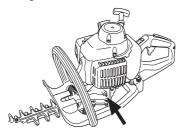




Gear



There is a grease nipple and a plug for filling lubricant on the gear housing. Use a grease gun to fill with grease. This should be done after every 60 working 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.

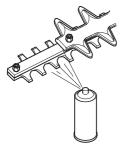
The grease in the bevel gear does not normally need to be changed except if repairs are carried out.

Cleaning and lubrication



Clean any resin and plant residue from the blades using cleaning agent before and after using the machine.

Lubricate the blade bars with special grease before long periods of storage.



IMPORTANT! 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

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	Daily maintenance	Weekly maintenance	Monthly maintenance
Clean the outside of the machine.	X		
Make sure the throttle trigger lock and the throttle function correctly from a safety point of view.	Х		
Check that the stop switch works correctly.	Х		
Check that the blades do not move when the engine is idling or when the choke is in the start throttle position.	Х		
Check that the blades are undamaged and show no signs of cracking or other damage. Replace the blades if necessary.	Х		
Check that the blade guard is not damaged or distorted. Replace the blade guard if it is bent or damaged.	Х		
Clean the air filter. Replace if necessary.	X		
Check that the hand guard is not damaged. Replace the guard if damaged.	Х		
Check that nuts and screws are tight.	Х		
Check that there are no fuel leaks from the engine, tank or fuel lines.	Х		
Check the starter and starter cord.		Х	
Check that the vibration damping elements are not damaged.		Х	
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.		Х	
Clean the machine's cooling system.		X	
Clean or replace the spark arrestor screen on the muffler (only applies to mufflers without a catalytic converter).		Х	
Clean the outside of the carburettor and the space around it.		Х	
Fill the gear housing with grease. This should be carried out approximately every 60 working hours.		Х	
Check that the screws that hold the blades together are correctly tightened.		Х	
Clean the fuel tank.			Х
Check the fuel filter from contamination and the fuel hose from cracks or other defects. Replace if necessary.			Х
Check all cables and connections.			Х
Check the clutch, clutch springs and the clutch drum for wear. Replace if necessary by an autorized service workshop.			Х
Replace the spark plug. Check that the spark plug is fitted with a suppressor.			Х
Check and clean the spark arrestor screen on the muffler (only applies to mufflers fitted with a catalytic converter).			Х
To reduce the fire hazard, clean dirt, leaves and surplus lubricant, etc from the muffler and engine.			Х

TECHNICAL DATA

Technical data

Technical data	123HD60	123HD65
Motor		
Cylinder displacement, cu.in/cm ³	1,37/22,5	1,37/22,5
Cylinder bore, inch/mm	1,26/32	1,26/32
Stroke, inch/mm	1,10/28	1,10/28
Idle speed, rpm	3000	3000
Recommended max. speed, rpm	12000	12000
Max. engine output, acc. to ISO 8893, kW/ rpm	0,6/7000	0,6/7000
Catalytic converter muffler	No	No
Speed-regulated ignition system	No	No
Ignition system		
Spark plug	NGK BPMR 6Y	NGK BPMR 6Y
Electrode gap, inch/mm	0,03/0,7	0,03/0,7
Fuel and lubrication system		
Fuel tank capacity, US pint/litre	1,06/0,5	1,06/0,5
Weight		
Weight without fuel, Lbs/kg	11,2/5,1	11,4/5,2
Sound levels		
(see note 1)		
Equivalent sound pressure level at the operator's ear, measured according to EN ISO 22868, dB(A):	97	95
Vibration levels		
(see note 2)		
Equivalent vibration levels (a _{hv,eq}) at handles, measured according to EN ISO 22867, m/s ²	d	
Front/rear handles:	4,1/3,5	4,1/3,0
Blades		
Туре	Double sided	Double sided
Length, mm	550	600
Blade speed, cuts/min	3765	3765

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 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, vou 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

MAINTENANCE STATEMENT

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



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Original instructions 1153197-95

