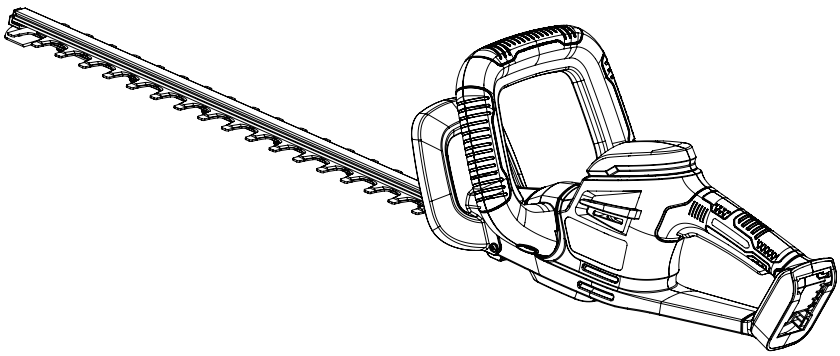
MOVA

Model: GH221/GH221X



20V 55cm Cordless Hedge Trimmer User Manual

CAUTION: Before using this tool, please read this manual completely, and follow all operating safety measures.

Original Instructions

SAFETY & INTERNATIONAL SYMBOLS.....2
SAFETY INSTRUCTIONS.....2
KNOW YOUR UNIT.....7
SPECIFICATIONS.....8
ASSEMBLY.....8
OPERATION.....10
MAINTENANCE.....12
TROUBLESHOOTING.....14

SAFETY & INTERNATIONAL SYMBOLS

Explanation of Safety & international symbols describes safety and international symbols and pictographs that may appear on this product. Read the operator's manual for complete safety, assembly, operating and maintenance and repair information.

	Caution / Warning.
	To reduce the risk of injury, user must read user manual.
	Wear eye protection.
	Wear ear protection.
	Wear head protection.
	DANGER – Keep hands away from blade.
	Do not use in rain or wet conditions.
	Wear safety footwear.
	Wear protective gloves.
	Keep bystanders a safe distance away from the work area.
	Indoor use only. Only use battery charger indoors.
	RCM Mark
	Guaranteed sound power level. Noise emission to the environment according to the European Community's Directive.
	Do not dispose of electrical products with household waste. Recycle through authorized facilities.

SAFETY INSTRUCTIONS

ORIGINAL INSTRUCTIONS

GENERAL POWER TOOL SAFETY WARNINGS

⚠ WARNING!

Read all safety warnings, instructions, illustrations and specifications, provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work Area Safety

a. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
b. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
c. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical Safety

a. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified
plugs and matching outlets will reduce risk of electric shock.
b. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
c. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
d. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the battery charger. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
e. When operating a power tool outdoors, use an extension cord suitable for outdoor use.Use of a cord suitable for outdoor use reduces the risk of electric shock.
f. If operating a battery charger in a damp location is unavoidable, use a residual
current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

3) Personal Safety

a. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
b. Use personal protective equipment. Always wear eye protection. Protective
equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
c. Prevent unintentional starting. Ensure the switch is in the off-position before
connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
d. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
e. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f. Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
g. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dustrelated hazards.
h. Do not let familiarity gained from frequent use of tools allow you to become
complacent and ignore tool safety principles. A careless action can cause severeinjury within a fraction of a second.

4) Power Tool Use And Care

a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
b. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
c. Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
d. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
e. Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
f. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
g. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.
h. Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

5) Battery Tool Use And Care

a. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
b. Use power tools only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
c. When battery pack is not in use, keep it away from other metal

objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

d. Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
e. Do not use a battery pack or tool that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
f. Do not expose a battery pack or tool to fire or excessive temperature. Exposure to fire or temperature above 130° C may cause explosion.
g. Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

6) Service

a. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
b. Never service damaged battery packs.Service of battery packs should only be performed by the manufacturer or authorized service providers.

HEDGE TRIMMER SAFETY WARNINGS

a. Do not use the hedge trimmer in bad weather conditions, especially when there is a risk of lightning. This decreases the risk of being struck by lightning.
b. Keep all power cords and cables away from cutting area. Power cords or cables may be hidden in hedges or bushes and can be accidentally cut by the blade.
c. Wear ear protection. Adequate protective equipment will reduce the risk of hearing loss.
d. Hold the hedge trimmer by insulated gripping surfaces only, because the blade may contact hidden wiring. Blades contacting a "live" wire may make exposed metal parts of the hedge trimmer "live" and could give the operator an electric shock.
e. Keep all parts of the body away from the blade. Do not remove cut material or hold material to be cut when blades are moving. Blades continue to move after the switch is turned off. A moment of inattention while operating the hedge trimmer may result in serious personal injury.
f. When clearing jammed material or servicing the hedge trimmer, make sure all power switches are off and the battery pack is removed or disconnected.Unexpected actuation of the hedge trimmer while clearing jammed material or servicing may result in serious personal injury.
g. Carry the hedge trimmer by the handle with the blade stopped and taking care not to operate any power switch. Proper carrying of the hedge trimmer will decrease the risk of

inadvertent starting and resultant personal injury from the blades.

h. When transporting or storing the hedge trimmer, always use the blade cover. Proper handling of the hedge trimmer will decrease the risk of personal injury from the blades.

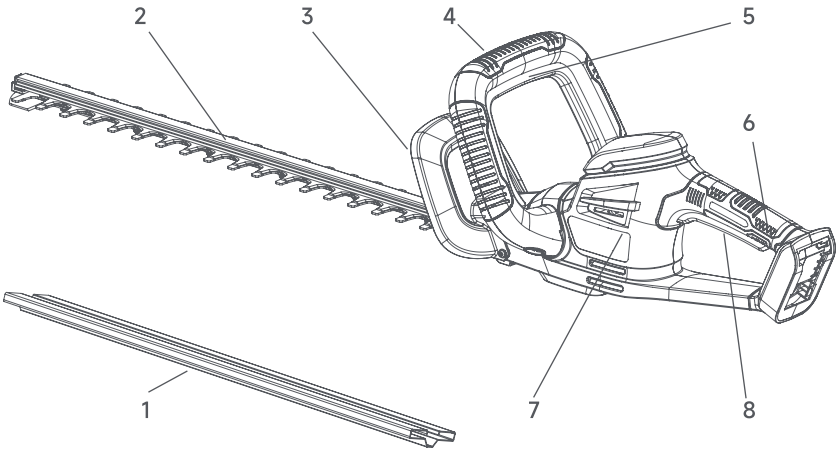
NOTE: Although all reasonable and necessary safety measures have been adopted in the design, production, and testing of this power tool to minimize potential risks, due to the inherent characteristics of mechanical products and the diversity of usage scenarios, there may still be residual risks that cannot be completely eliminated.

SAVE THESE INSTRUCTIONS

INTENDED USE

This cordless hedge trimmer is intended for cutting and trimming hedges and bushes in domestic areas. It is not intended to be used for cutting above shoulder level. Do not use it for other purpose.

KNOW YOUR UNIT



1	Blade Cover
2	Cutting Blades
3	Guard
4	Front Handle
5	Safety Switch
6	Rear handle
7	Motor Housing
8	Switch Trigger

SPECIFICATIONS

Model	GH221/GH221X*
Input Voltage	18 V (max 20 V) ⎓
Motor type	Brushed
No-load speed	2300 /min
Cutting blade length	450 mm
Cutting capacity	20 mm
Weight (tool only)	2.42 kg
Measured Sound Power Level LwA	92 dB(A) K=1.5 dB(A)
Sound Pressure Level at Operator's Position LpA	84 dB(A) K=3 dB(A)
Guaranteed Sound Power Level LwA (measured according to 2000/14/EC)	95 dB(A)
Valuation of Vibration (left hand and right hand)	Main handle =0.782 m/s Front handle =1.037 m/s² Uncertainty K=1.5 m/s²

*X=0-999, A-Z may vary depending on the sales region or package configuration, with no safety-related changes between these models.

*20V Max battery, maximum initial battery voltage (measured without a workload) is 20V. The nominal voltage is 18V.

NOTE: The declared noise emission value(s) and vibration total value(s) are measured in accordance with a standard test method, and may be used both for comparing tools and for making a preliminary assessment of exposure.

WARNING: The noise and vibration emissions during actual use of the power tool may differ from the declared value(s), depending on how the tool is used. To protect the operator, hearing protection and gloves should be worn under actual working conditions.

ASSEMBLY

1. Unpack all parts and lay them on a flat, stable surface:
2. Remove all packing materials and shipping devices, if applicable.
3. The scope of delivery varies depending on the country and purchased variant:
   - Hedge trimmer
   - Battery pack
   - Charger
   - Blade cover
   - User manual

NOTE: The actual accessories supplied may vary depending on the product model, sales region, production batch, or package configuration.

4. If you find that parts are missing or show damage do not use the product but contact MOVA customer service. Using an incomplete or damaged product represents a hazard to people and property.
5. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

⚠ WARNING:



Wear protective gloves for this assembly work and always lay the product on a flat and stable surface while assembling. Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product! Do not insert thebattery pack before the power tool is completely assembled or adjusted!

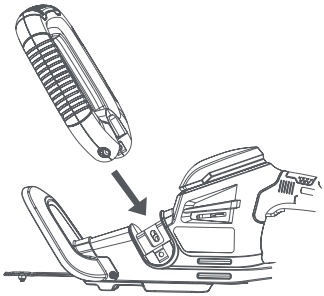
ASSEMBLING THE FRONT HANDLE

⚠ WARNING:

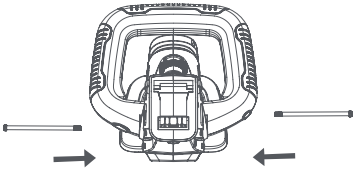
To avoid serious personal injury and damage

to the unit, shut the unit off before removing or installing an attachment.

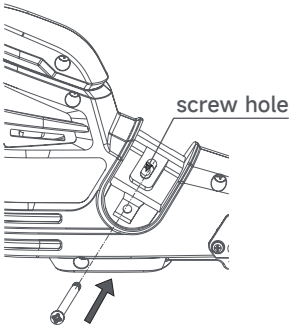
1. Align and insert the front handle.



2. Secure the front handle with two screws.



3. Please make sure to secure the right-side screw in the correct hole.

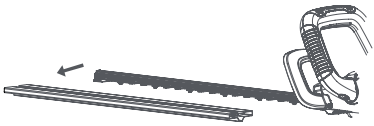


4. Press the switch trigger and check that it returns smoothly and fully without sticking, to prevent start-up failure.

5. Check if the handle is firmly seated to avoid personal injury.

REMOVING THE BLADE COVER

Remove the blade cover before turning on the machine.



It is recommended to cover the blade when your work is finished.

INSTALLING/REMOVING THE BATTERY PACK

⚠ **WARNING:** Make sure battery pack snaps in place. Failure to securely seat the battery pack could cause the battery pack to fall out, resulting in serious personal injury.

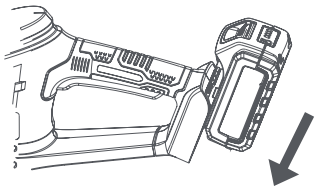
⚠ **WARNING:** Use only the accessories listed below. Using nonapproved accessories may result in poor performance or safety hazards.

Battery Pack	GBA202, GBA204
Charger	GCH202, GCH204, GCH206D

NOTE: For usage instructions of the battery pack and charger, please refer to the respective user manuals.

To install:

Align and slide the battery pack into the slots of the battery docking port until it locks in place.



To remove:

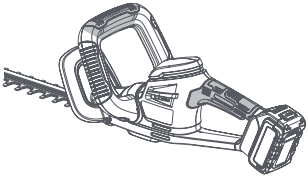
Press the unlock button of battery pack and remove the battery pack from the product.

OPERATION

⚠ WARNING!

Always wear eye, hearing, hand, foot and body protection to reduce the risk of injury when operating this unit. Keep all parts of your body away from the rotating cutting attachment and hot surfaces.

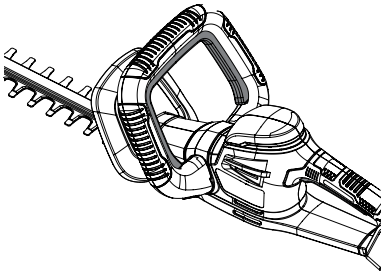
Always use two hands to operate the product. When operating, use your left hand to hold the front handle while your right hand to hold the rear handle.



SWITCHING ON/OFF

Hold the product as in working condition.To start the product, press the switch trigger and the safety switch at the front handle at the same time.

To switch the product off, release the switch trigger or the safety switch.



NOTE:

For safety reasons, both the safety switch and the switch trigger must remain pressed during the entire operation.

GENERAL

⚠ WARNING!

Always lubricate the cutting blade with protective spray before use and storage.

1. Double check that all parts are properly fixed.
2. Check the product as well as accessories for damage before each use. Do not use the product if it is damaged or shows wear.
3. Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.
4. Wear eye, hearing, hand, foot and body protection.
5. Always hold the product on its handles. Keep the handles dry and free from lubricant to ensure safe holding.
6. Keep your body and feet in safety distance to cutting head.
7. Inspect the area to be cut and remove any foreign objects that will influence your cutting. If the foreign objects can not be removed, e.g. wire fences, please mark and remember it to avoid toughing them during cutting.
8. Run the machine to top speed before cutting.
9. Switch the product off immediately if you are disturbed while working by other peopleentering the working area. Always let theproduct come to complete stop before putting it down.
10. Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.

NOTE:

In some countries regulations define at what time of the day and on what special days products are allowed to be used and what restrictions apply! Ask your community for detailed information and observe the regulations in order to preserve a peaceful neighborhood and avoid committing administrative offences.

This hedge trimmer is intended to be used by the operator at ground level and should not be used by the operator on ladders or any other unstable support.

CUTTING TIPS

WARNING!

Never cut near electric cords or lines. If blade jams on any electrical cord or line, **DO NOT TOUCH THE BLADE! IT CAN BECOME ELECTRICALLY LIVE AND VERY DANGEROUS.**

Continue to hold the hedge trimmer by the insulated rear handle or lay it down and away

from you in a safe manner. Disconnect the electrical service to the damaged line or cord

before attempting to free the blade from the line or cord. Contact with the blade, other conductive parts of the hedge trimmer,

or live electric cords or lines will result in death by

electrocution or serious injury.

- Clear the area to be cut before each use. Remove all objects such as cords, lights, wire, or loose string which can become entangled in the cutting blade and create a risk of serious personal injury.
- Before starting the hedge trimmer, hold the unit with both hands with the cutting blades directed away from you. Always use the hedge trimmer properly.
- Do not force the hedge trimmer through heavy shrubbery. This can cause the blades to bind and slow down. If the blades slow down, reduce the pace.
- Do not try to cut stems or twigs that are larger than 3/4 in. thick, or those obviously too large to feed into the cutting blade. Use a non-powered hand saw or pruning saw to trim large stems.
- If blades do become jammed, stop the product, allow the blades to stop and remove the battery pack before attempting to remove the obstruction.
- Always hold hedge trimmer with both hands when operating. Use a firm grip on the handles. Never hold shrubs with one hand and operate the hedge trimmer with the other. Improper operation of the hedge trimmer could result in serious injury. The unit is used for cutting in either direction in a slow, sweeping action from side to side.
- Wear gloves when trimming thorny or prickly growth. When trimming new growth, use a wide sweeping action, so that the stems are fed directly into the cutting blade. Older growth will have thicker stems and will be trimmed easiest by using a sawing movement.
- The risk of the operation may occurs, such as the sharp tree branches may cut the user's skin, the blade of the unit may hurt the user's body. Always wear eye, hearing, hand, foot and body protection to reduce the risk of injury when operating this unit.

OVERHEAT PROTECTION

When the tool/battery is overheated, the tool stops automatically. In this situation, let the power tool/battery cool before turning the tool on again.

OVERDISCHARGE PROTECTION

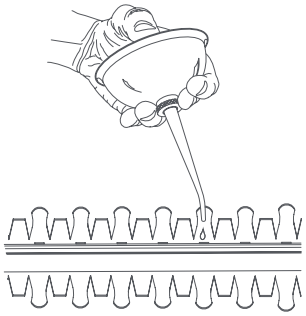
When the battery capacity is not enough,

the tool stops automatically. In this case, remove the battery from the tool and charge the battery.

MAINTENANCE

⚠ WARNING!

Always allow the blades of the hedge trimmer to come to a complete stop and pull out the battery pack before lubricating. Failure to do so could result in accidental starting causing possible serious personal injury.For easier operation and longer blade life, lubricate the hedge trimmer blade before and after each use.If you will not be using the hedge trimmer for an extended time, it is advisable to oil the blade periodically.Stop the hedge trimmer. Pull out the battery pack from the product. Lay the hedge trimmer on a flat surface and apply light weight machine oil along the edge of the top blade.



SHARPENING THE BLADE

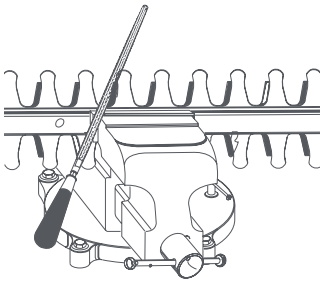
⚠ WARNING!

During the maintenance, users should take care of their safety. Always wear eye, hearing, hand, foot and body protection to reduce the risk of injury when operating this unit. And check the unit that it can work normally after the maintenance. If any deterioration occurs,
follow the maintenance according to this manual !

NOTE:

Allow the blades of the hedge trimmer to come to a complete stop in the position shown. This will allow clearance for the file between the cutter teeth and the guard teeth.

Remove and pulling out the battery pack from the product.
Clamp the blade assembly in a vise and file the exposed cutting surface of each blade tooth with an 8 in. Smooth round file, 1/4 in. or 7/32 in. in diameter. Be sure to retain the original angle of the tooth when filing. In order to file both sides of each cutter tooth, you may need to momentarily run the hedge trimmer until the opposing side of the cutter teeth are exposed. Do not run the hedge trimmer while it is locked into the vise. Make sure all tools for sharpening have been removed before installing the battery. Remove the battery pack and repeat the sharpening process for the newly exposed teeth.



CLEANING

Switch the product off, pull out the battery pack from the product.Use a small brush to clean the outside of the unit. Do not use strong detergents. Household cleaners that contain aromatic oils such as pine and lemon, and solvents such as kerosene, can damage plastic. Wipe off any moisture with a soft cloth.

NOTE:

If the cutting blade is blocked by foreign objects during the operating, stop the product, wait for the cutting blade stops entirely, remove the foreign objects and clean the cutting blade.

TRANSPORT

- Clean the product as described above.
- Install the blade cover during the transport.
- Always carry the product by its handle.
- Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
- Secure the product to prevent it from slipping or falling over,damage or injury.

STORAGE

- Clean the product as described above.
- Store the product and its accessories in a dark, dry, frost-free, well-ventilated place.
- Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 0°C-25°C (32° F-77° F).
- We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.

NOTE:

To prolong battery life, never store battery pack in a completely discharged condition. Make sure the battery pack is charged once per year or when the LED indicator shows only one light.

DISPOSAL

Waste product should not be disposed of with household waste. Please recycle where facilities exist.Check with your local authority or retailer for recycling advice. During the operation, the leaves or tree branches may be cut by the unit, users should clean these objects to protect environment.



Electrical products should not be discarded with household products. Used electrical products must be collected separately and disposed of at collection points provided for this purpose. Talk with your local authorities or dealer for advice on recycling.

TROUBLESHOOTING

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

PROBLEM	POSSIBLE CAUSE	SOLUTION
Product does not start	Battery pack not properly attached	Attach properly
	Battery pack capacity too low	Remove and charge battery pack
	Battery pack damaged	Check by a specialist electrician
	Switch trigger or safety switch not set on ON position	Refer to chapter “SWITCHING ON/OFF”
Product does not reach full power	Battery pack capacity too low	Charge battery pack
	Air vents are blocked	Clean the air vents
Result is unsatisfactory	Cutting attachment is worn	Replace with a new one
Vibration or noise is excessive	Bolts/nuts are loose	Tighten bolts/nuts
Product suddenly stops	Battery pack capacity too low	Remove and charge battery pack
	Battery too hot	Remove battery pack and let it cool down

WARRANTY POLICY

- During the warranty period, if the product exhibits manufacturing defects (excluding damage caused by improper use or mishandling), you may contact the MOVA after-sales service team for support. Upon confirmation of the defect by our technicians, you will be eligible for complimentary repair or replacement under the warranty terms.
- The warranty is only applicable to the original purchase from an authorized MOVA retailer.
- The warranty period may vary by country/region and is subject to local laws and regulations.

Warranty period

- Personal and Household Use
- 20V, 40V Garden tools (e.g., lawn mowers, hedge trimmers): **3-year** limited warranty from the date of purchase.
- 20V, 40V Battery system (e.g., chargers, battery packs): **2-year** limited warranty from the date of purchase.
- Maintenance parts/accessories: **not** covered under the limited warranty.

Professional Use: For commercial, agricultural, and institutional applications: 30-day limited warranty from the date of purchase.

During the warranty period, the following situationsare not covered under the warranty:

1. Products used for rental purposes.
2. Products whose serial number, factory label, and other identifiers have been torn off or altered.
3. No valid purchasing document (receipt, invoice, or other) is provided to certify the date the product was purchased.
4. Maintenance parts/accessories, including but not limited to: lawn mower blades, trimmer blades, grass bag, mulching insert, grass trimmer head, wheels, brush cutter blade, saw chain, belts, skid shoes, scraper bar, shear bolts, blower tube nozzles, and other similar accessories.
5. Defects caused by normal wear and tear or normal product aging. This includes but is not limited to scratches, dents, paint peeling, or any corrosion or discoloration caused by overheating, abrasives, and chemical cleaners.
6. Damage caused by:
   - Abuse, overloading, misuse, or unauthorized modification.
   - Natural disasters, accidents, or other force majeure events.
7. Malfunctions resulting from failure to operate the product according to its instructions, specifications, or guidelines, or due to improper maintenance, care, or storage.
8. Failures due to the use of unauthorized accessories.
9. Failures caused by repairs made by an unauthorized service center or tampering with the product by individuals without permission from MOVA.

The warranty covers only the repair of defects specified in these terms. Any other claims are excluded. Please note: No full unit replacement service will be provided during repairs.

MOVA reserves the right to amend these terms and retains final authority over warranty interpretation, subject to applicable laws.

For more warranty information, please visit the official website: https://www.mova.tech

CONTACT US

https://www.mova.tech/pages/contact-us

MOVA

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Made in China