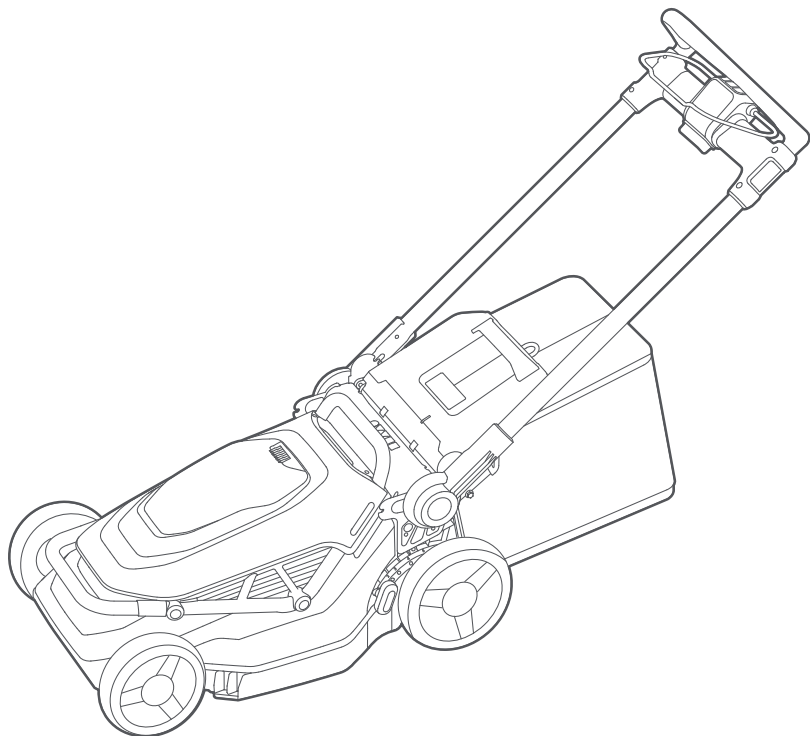


MOVA



47cm Brushless Self-Propelled Lawn Mower

Model Number: GL620 / GL620X

User Manual

⚠ WARNING: Thoroughly read and understand the manual before using this product. Save this user manual for future reference.

○ Images are for reference only. Actual appearance may vary.

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1 Introduction

⚠ WARNING: The lawn mower is a high-speed cutting tool and is powered by battery. Special safety precautions must be observed to reduce the risk of hazards and personal injuries.

⚠ WARNING: Thoroughly read and understand the user manual before use and periodically thereafter.

1.1 Intended Use

The machine is intended solely for domestic lawn mowing. Do not repurpose the lawn mower for tasks other than its designated use, as doing so could pose safety risks and could damage the machine.

1.2 Lend / Rent Instructions

Ensure that this user manual accompanies the lawn mower at all times, whether it is being lent, rented, or used. Only individuals who have received proper training and have a complete understanding of all the instructions and information contained in this manual should operate the lawn mower.

2 Safety Instruction

READ & UNDERSTAND ALL INSTRUCTIONS!

⚠ DANGER: This machine has the potential to amputate hands and feet and to throw objects forcefully. Failure to follow all safety instructions in this manual may lead to severe injury or even fatality.

⚠ WARNING: Carefully read the safety instructions below and understand them before use to minimize injury risks.

⚠ WARNING: Using unapproved or non-MOVA accessories can lead to overheating, device damage and safety hazards.

2.1 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.

2.2 Work Area Safety

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **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.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2.3 Electrical Safety

- **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.
- **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.
- **Do not operate the lawn mower in rain or wet conditions.** This may increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **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.
- **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

2.4 Personal Safety

- **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.
- **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.
- **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.

- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **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.
- **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 dust-related hazards.
- **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 severe injury within a fraction of a second.

2.5 Power Tool Use and Care

- **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.
- **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.
- **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.
- **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.
- **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.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **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.

- **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.

2.6 Battery Tool Use and Care

- **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.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **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.
- **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.
- **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.
- **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C (265 °F) may cause explosion.
- **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.

2.7 Service

- **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.
- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

2.8 Lawn Mower Safety Warnings

- **Do not use the lawn mower in bad weather conditions, especially when there is a risk of lightning.** This decreases the risk of being struck by lightning.
- **Thoroughly inspect the area for wildlife where the lawn mower is to be used.** Wildlife may be injured by the lawnmower during operation.
- **Thoroughly inspect the area where the lawnmower is to be used and**

remove all stones, sticks, wires, bones, and other foreign objects.

Thrown objects can cause personal injury.

- **Before using the lawn mower, always visually inspect to see that the blade and the blade assembly are not worn or damaged.** Worn or damaged parts increase the risk of injury.
- **Check the grass bag frequently for wear or deterioration.** A worn or damaged grass bag may increase the risk of personal injury.
- **Keep guards in place. Guards must be in working order and be properly mounted.** A guard that is loose, damaged, or is not functioning correctly may result in personal injury.
- **Keep all cooling air inlets clear of debris.** Blocked air inlets and debris may result in overheating or risk of fire.
- **While operating the lawn mower, always wear non-slip and protective footwear. Do not operate the lawn mower when barefoot or wearing open sandals.** This reduces the chance of injury to the feet from contact with the moving blade.
- **While operating the lawn mower, always wear long trousers.** Exposed skin increases the likelihood of injury from thrown objects.
- **Do not operate the lawn mower in wet grass. Walk, never run.** This reduces the risk of slipping and falling which may result in personal injury.
- **Do not operate the lawn mower on excessively steep slopes.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- **When working on slopes, always be sure of your footing, always work across the face of slopes, never up or down and exercise extreme caution when changing direction.** This reduces the risk of loss of control, slipping and falling which may result in personal injury.
- **Use extreme caution when reversing or pulling the lawn mower towards you. Always be aware of your surroundings.** This reduces the risk of tripping during operation.
- **Do not touch blades and other hazardous moving parts while they are still in motion.** This reduces the risk of injury from moving parts.
- **When clearing jammed material or cleaning the lawnmower, make sure all power switches are off and the battery pack is disconnected.** Unexpected operation of the lawnmower may result in serious personal injury.

2.9 Important Safety Instruction

- The lawn mower has only one intended use: to mow grass. Do not use the machine for any job except that for which it is intended.
- Objects may be struck by the lawn mower blade during use. Carefully check, examine, and clear all objects before each use.
- While moving the lawn mower forward and backward, carefully look

around for small children and animals.









- While operating the lawn mower, keep children, pets, bystanders and helpers at least 100 feet (30 meters) away from the machine. Stop the machine immediately if anyone steps into the operating zone.
- Schedule your mowing area ahead to avoid discharge of material toward roads, sidewalks, bystanders and the like. Avoid discharging against walls or obstructions, which may cause discharged material to ricochet back toward the user.
- Plan your mowing path in advance to ensure that material is not directed towards roads, sidewalks, bystanders, or similar areas. Avoid ejecting material against walls or obstacles to prevent the risk of it ricocheting back towards you.
- Avoid pushing the lawn mower too hard, the lawn mower operates more efficiently and safely at its designed speed range.
- Never use the mower unless all accessories are properly installed and fully operational.
- Inspect the blades regularly and do not operate the mower with a worn or damaged blade.
- Never operate a lawn mower that is damaged or has been modified. Failing to do so could result in severe personal injury.
- Never use the lawn mower while crossing areas covered with gravel, such as paths, driveways, or roads.
- Do not tilt the machine when switching on the motor.
- If the machine starts to vibrate abnormally or intensely, immediately shut it down and disconnect the battery. Such vibration typically indicates a problem.
- Caution with each step you take. Slipping or falling could result in significant injuries. Should you sense that you're about to lose your balance, promptly let go of the Bail Switch, and the blade will cease spinning within three seconds.
- Keep the discharge opening clear all the way. A blocked opening can lead to an accumulation of grass clippings and debris, creating a risk of sudden, forceful discharge or causing the mower to clog and stall. Such scenarios could endanger both the operator and bystanders.
- If the mower strikes a foreign object, immediately stop the motor and remove the battery pack. Once the blade has stopped rotating, inspect the mower for damage. Repair any damage before operating the mower again.
- Exercise caution for holes, ruts, stones, hidden objects, or uneven surfaces that might lead to slip or trip. Give special focus to areas with long grass, as it may hide obstacles.
- Do not pull the mower towards yourself. Should you need to move the mower backwards away from a barrier or an obstacle, ensure you first check below and behind you to prevent stumbling. Then, adhere to the following instructions. Perform these steps repeatedly if necessary:





1. Stretch your arms fully away from the mower.
2. Gently pull the mower back towards you, but don't pull it all the way up to yourself; always keep it at a distance of half an arm's length.
3. Maintain a stable posture while mowing.

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.

2.10 Symbols and Decals

This section explains the safety symbols and decals that appear in this manual and on the product. Understanding these markings is essential for safe and proper operation.

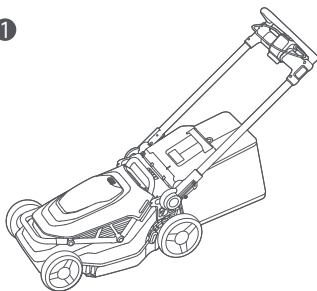
Symbol	Explanation
	European Conformity
	Regulatory compliance mark
	Eurasian conformity
IPX4	IP symbol
	This symbol indicates that the product has been tested and certified by SGS for compliance with relevant safety and quality standards.
	Do not dispose of electrical products with household waste. Recycle through authorized facilities.
	WARNING – Keep hands and feet away from the blades.
	WARNING – Disconnect battery before maintenance.
	Guaranteed sound power level. Noise emission to the environment according to the European community's Directive.

	<p>To reduce the risk of injury, keep hands and feet away from rotating parts. Do not operate unless discharge cover or grass bag is in its proper place. If damaged, replace immediately.</p>
	<p>WARNING- Beware of thrown objects - keep bystanders away.</p>
	<p>To reduce the risk of injury, read and understand the User Manual before operating. Failure to do so may result in serious injury to the user and/or bystander.</p>
	<p>The symbol "ø" represents the diameter of a circular object.</p>

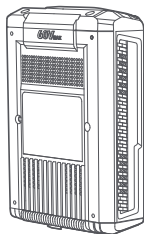
3 Product Introduction

3.1 What's in the Box

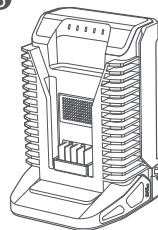
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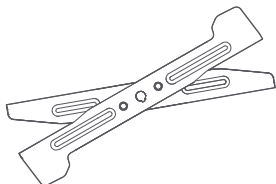
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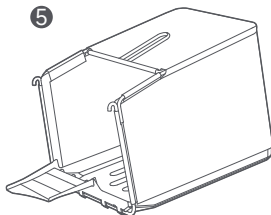
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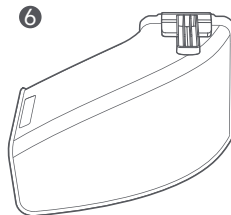
4



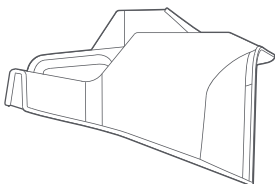
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6



7



8



9



1	Lawn Mower	4	Blade Set	7	Mulching Insert
2	Battery Pack*	5	Grass Bag	8	User Manual
3	Charger*	6	Side-discharge Chute	9	Warranty Card

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

NOTE:

- Examine the tool and accessories listed above for any signs of shipping damage.
- If any part is missing or damaged, contact the retailer or MOVA Customer Service.
- Retain the packaging materials until you have fully inspected and tested the product.

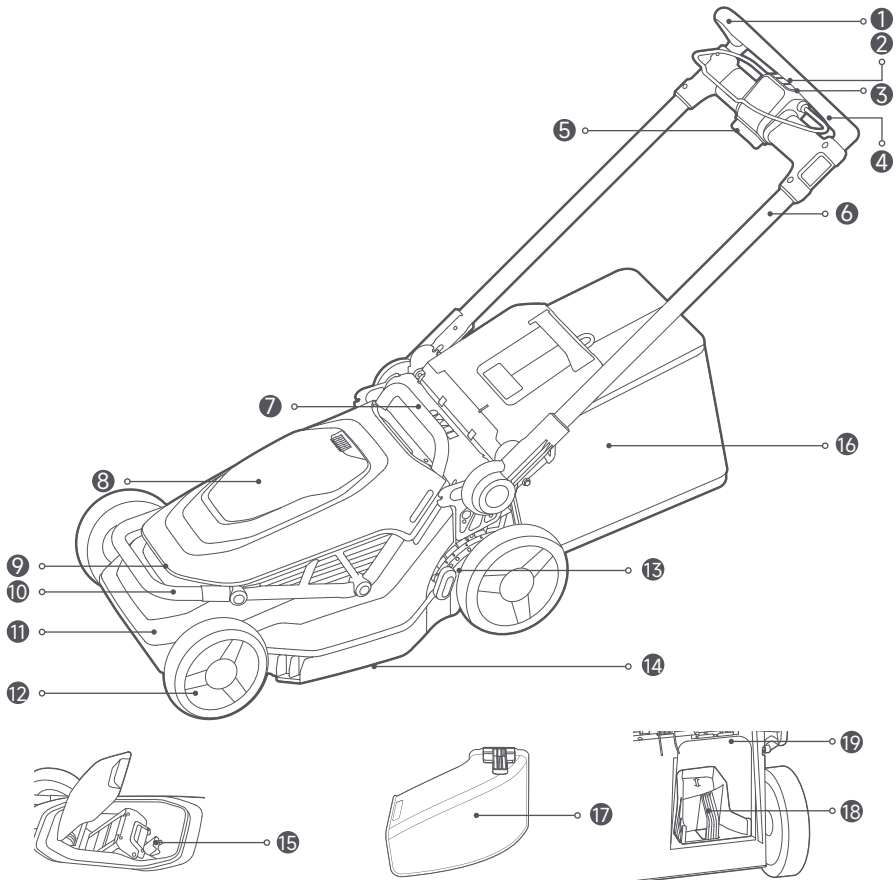
3.2 Recommended Accessories

⚠ WARNING: Use only the accessories listed below. Using non-approved accessories may result in poor performance or safety hazards.

Battery Pack	GBA625, GBA650
Charger	GCH606, GCH612

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

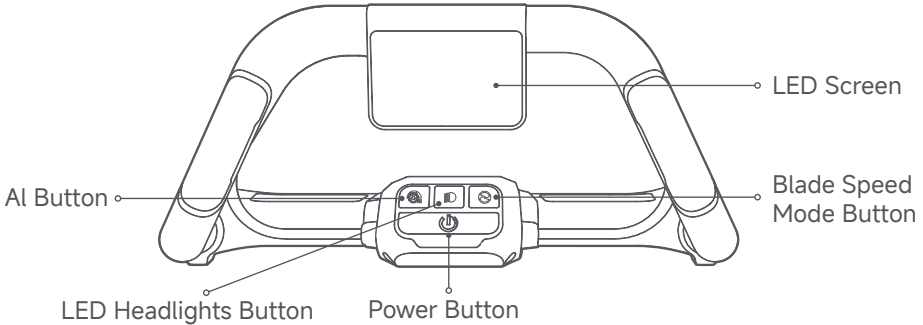
3.3 Product Overview



1	Handle	11	Mower Deck
2	Bail Switch	12	Wheels
3	Control Panel	13	Cutting-Height Adjustment Lever
4	Self-Propelled Speed Control Zones	14	Blades
5	Quick Adjust Button	15	Battery-Release button
6	Side Rail	16	Grass Bag
7	Rear Handle	17	Side Discharge Chute

8	Battery Cover	18	Mulching Insert
9	LED Headlights	19	Rear Discharge Door
10	Front Handle		

3.4 Control Panel



LED Screen

Provide important operational information and controls in an easy-to-read digital format.

AI Button

To turn the self-Propelled function on/off and adjust the self-Propelled speed.

LED Headlights Button

To turn the mower headlights on/off.

Blade Speed Mode Button

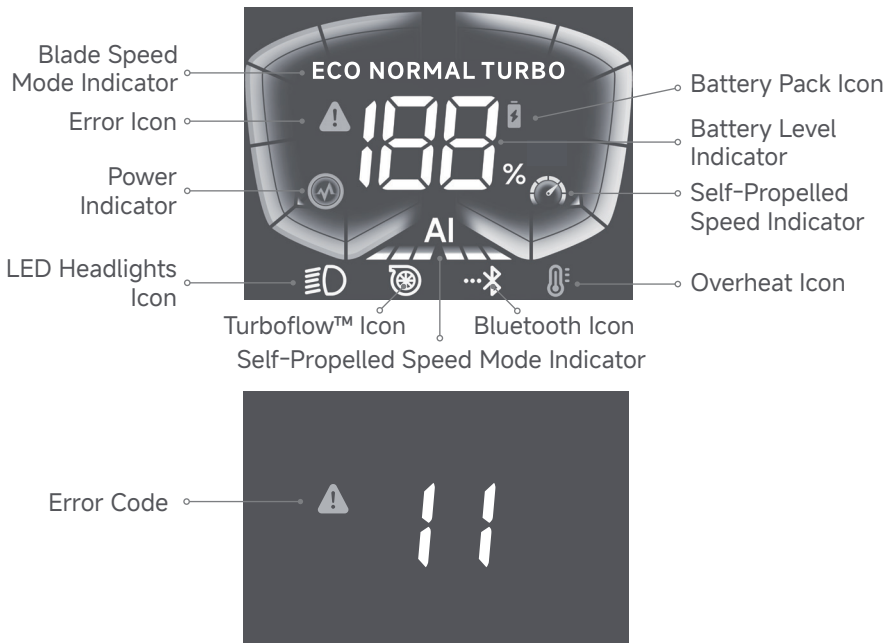
Select the blade speed according to different grass conditions.

Power Button











Press to activate the screen. To start the motor, press both the power button and the bail switch simultaneously.

3.5 LED Screen Guide

NOTE: The screen turns off automatically if no operation is detected for 10 minutes. Press the power button to wake up the screen before any operation.



LED Display	Meaning
ECO	Blade Speed Mode: ECO
NORMAL	Blade Speed Mode: NORMAL
TURBO	Blade Speed Mode: TURBO
	Displays the current battery level (%) when the screen is activated.
	Lights up when the battery pack is properly installed and the display is on.
	Lights up when a system malfunction is detected. Refer to the displayed error code to troubleshoot the issue or contact Customer Service for help.
	Displays the current power output level of the tool.

	Displays the current self-Propelled speed when the self-Propelled is activated – the progress bar grows as speed increases.
	Self-Propelled Speed Mode: LOW
	Self-Propelled Speed Mode: MEDIUM
	Self-Propelled Speed Mode: HIGH
	Self-Propelled Speed Mode: OFF
	Lights up when LED headlights are ON.
	Lights up when Turboflow™ is activated.
	Lights up when the tool is successfully connected via Bluetooth.
	Lights up when the tool is overheated.
	Lights up when a system malfunction is detected.

4 Assembly

This product is delivered partially assembled and requires additional assembly before use.

⚠ WARNING: To avoid accidental starting that may cause serious personal injury, always remove the battery pack and make sure the motor has completely stopped before assembling or adjusting the tool.

⚠ WARNING: Do not alter the mower's accessories or parts, nor use or fabricate accessories not approved by MOVA. Unauthorized modifications or misuse may lead to serious injury.

⚠ WARNING: Wear protective gloves when handling the blade. It is extremely sharp and may cause injury.

⚠ WARNING: Do not assemble the tool if any parts are damaged or missing. Operating with damaged or missing parts may result in serious injury.

⚠ WARNING: Do not attempt to start the tool unless all components are securely installed.

⚠ WARNING: Remove all adjustment tools after installing or replacing parts.

⚠ WARNING: Use only MOVA-approved accessories and parts. Unauthorized modifications or misuse may cause serious injury.

4.1 Cutting System

⚠ WARNING: To prevent injury, always wear heavy-duty gloves or protectively wrap the cutting edges with thick cloth before handling the mower blades.

⚠ WARNING: Never attempt to adjust the lawn mower without first ensuring the motor is turned off, the battery pack is removed, and the blade has completely stopped rotating.

NOTE: The following tools are required before removing or installing the blades:

9/16" (15 mm) or adjustable wrench (impact wrench with 9/16" socket is recommended);

Manual screwdriver or metal rod with a diameter of 5/16" (8 mm).

4.1.1 Remove the Blades

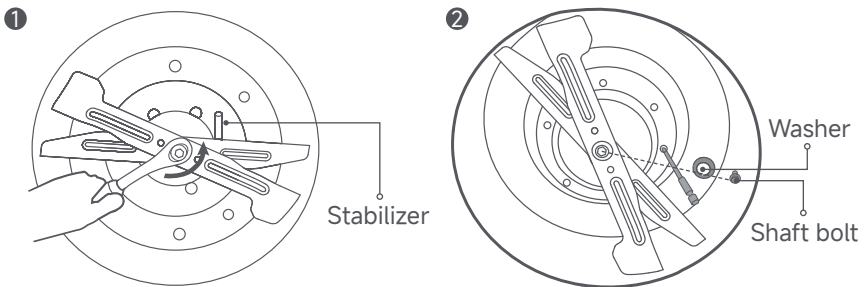
Step 1: Stop the motor and remove the battery pack.

Step 2: Stand the mower on end with the bottom of the mower face the operator.

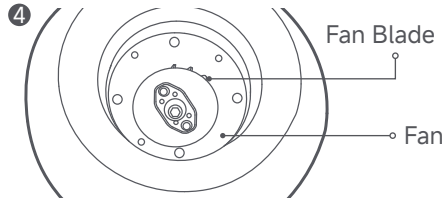
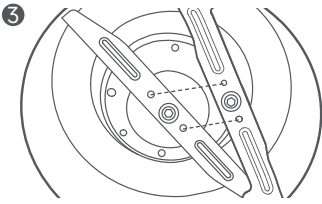
Step 3: Wear safety gloves. Insert a hand screwdriver or a metal rod with a diameter of 5/16" (8 mm) or slightly smaller into the stabilizer hole. This will keep the blades stationary as you unscrew the bolt (Fig. 1).

Step 4: Use a 9/16" (15mm) wrench to loosen and remove the 9/16" shaft bolt and washer (Fig. 2).

Step 5: Remove the lower blade and the upper blade from the motor shaft (Fig. 3).



Step 6: Leave the fan on the motor shaft. Be sure that the fan blade is facing towards the deck (Fig. 4).



4.1.2 Install the Blades

NOTE: Make sure that the statement **"THIS SIDE FACING DECK"** on the upper blade is facing toward the mower deck and **"THIS SIDE FACING GRASS"** on lower blade is facing toward the outside.

Step 1: Stop the motor, remove the battery pack.

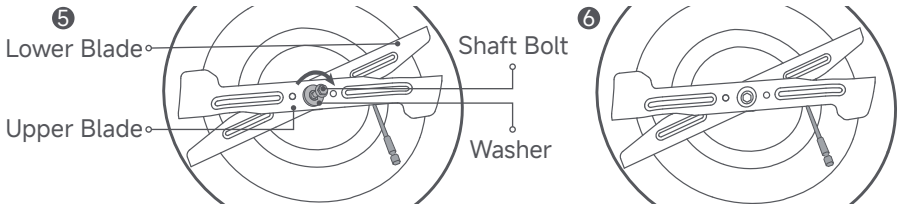
Step 2: Stand the mower on end, let the bottom of the mower face the operator.

Step 3: Mount the upper blade and lower blade onto the motor shaft. Make sure that the statement **"THIS SIDE FACING DECK"** on the upper blade is facing toward the mower deck; the statement **"THIS SIDE FACING GRASS"** on the lower blade is facing toward the outside (Fig. 5).

Step 4: Install the washer and the shaft bolt to the motor shaft, then manually pre-tighten the shaft bolt by turning it **CLOCKWISE** (Fig. 5).

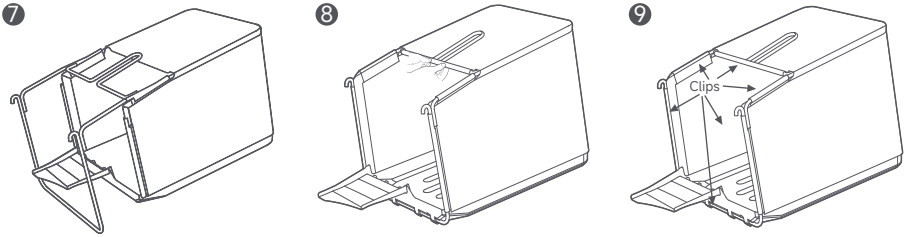
Step 5: Insert a hand screwdriver or a metal rod with a diameter of 5/16" (8 mm) or slightly smaller into the stabilizer hole. This will keep the blades stationary as you unscrew the bolt (Fig. 6).

Step 6: Tighten the shaft bolt using a torque wrench that is 9/16" (15 mm) in size. The recommended torque for the blade bolt is 36-43 ft-lb (49-59 Nm).



4.2 Assembling the Grass Bag

1. Before assembly, inspect the bag and frame for any damage.
2. Slide the grass bag onto the frame (Fig. 7).
3. Attach the bottom clip to the frame, followed by the two side clips, and finish with the top clips (Fig. 8)
4. Check if the grass bag and the frame are securely assembled (Fig. 9).



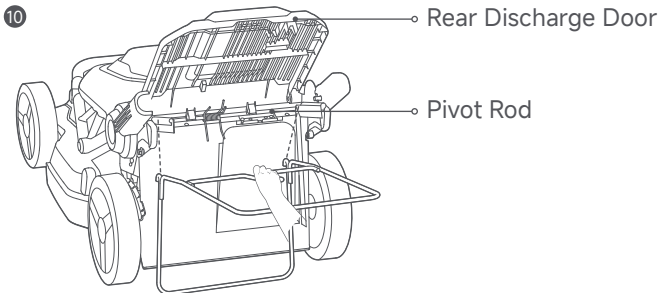
4.3 Attaching / Removing the Grass Bag (Fig. 10)

⚠ WARNING: Ensure that the hooks of the grass bag are securely attached to the pivot rod and that the rear discharge door is tightly pressed against the top of the grass bag before operating the mower with the grass bag.

⚠ WARNING: Under normal usage, the grass bag material is subject to wear. To reduce the risk of injury, frequently inspect the bag assembly and replace the bag if there are any signs of wear or deterioration. Use only grass bags manufactured for this mower.

NOTE: Before attaching the grass bag on the mower, remove either the side discharge chute or the mulching insert.

1. Stop the motor and remove the battery pack.
2. Lift the rear discharge door.
3. Hook the grass bag onto the pivot rod, which connects the rear discharge door to the mower. Release the discharge door so that it rests on the grass bag.
4. To remove the grass bag, first lift the rear discharge door, then lift the grass bag up and off the pivot rod.

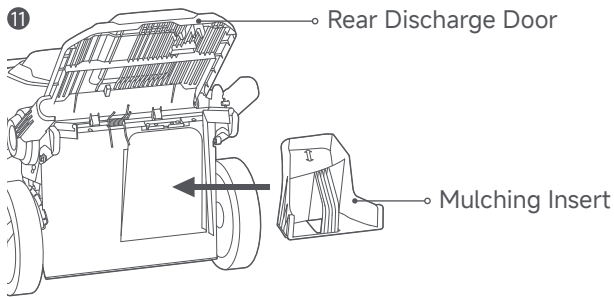


4.4 Attaching / Removing the Mulching Insert (Fig. 11)

NOTE: Before attaching the mulching insert, remove either the discharge chute or the grass bag.

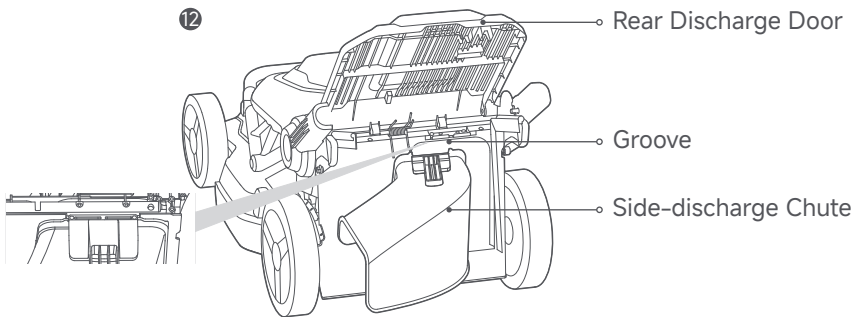
1. Stop the motor and remove the battery pack.
2. Lift the rear discharge door.
3. Hold the mulching insert, tilt it forward, and push it fully into the

- mower. Then, pull it backward to ensure it is securely locked in place.
- Let the discharge door down gently to ensure it securely leans on the mulching insert.
 - To remove the mulching insert, lift the rear-discharge door, hold the insert's handle, and pull it outward.



4.5 Attaching / Removing the Side-Discharge Chute (Fig. 12)

- Stop the motor and remove the battery pack.
- Lift the rear discharge door.
- Hold the chute and lift it slightly.
- Align the chute's top edge with the doorsill groove and insert it fully.
- Let the discharge door down gently to ensure it securely leans on the side-discharge chute.
- To remove the side-discharge chute, open the rear-discharge door. Lift the chute a little bit to remove it.



5 MOVHome APP

The MOVHome app allows you monitor your tool's status, track total operation time, view mowed area, access user guides, and diagnose potential issues.

5.1 Connecting to the MOVHome App

1. Scan the QR code below or search for "MOVHome" in the App Store or Google Play. Install the app, create an account, and log in.







2. Open the MOVHome app and enable Bluetooth function on your mobile device.

NOTE: Please make sure that both the tool and your mobile device are within range of the same Wi-Fi network, and your mobile device is within 10 m (33 ft) of the tool.

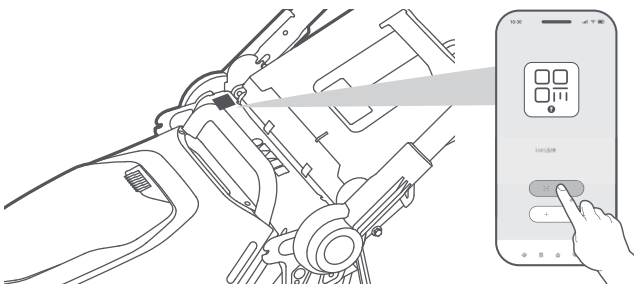
NOTE: Press the power button to wake up the screen before connecting the app.

3. Follow the instructions in **Section 6.1.3** to properly and securely install the battery pack into the tool, activating the tool's display screen.

4. Press and hold the  button on battery pack for 4 seconds to enter Bluetooth pairing mode. Then, pair the tool with your mobile device using one of the following two methods:

- **Scan QR code:** Go to  **Device** >  **Scan to Connect**, then scan the code on the tool as shown below.
- **Add Manually:** Go to  **Device** > **+** **Add**, then select your tool model.




5. Follow the in-app instructions to complete the connection. The Bluetooth Icon on the screen lights up when successfully paired.



5.2 Unbinding



The tool is automatically bound to the MOVAhome account once pairing is successful. Each tool can only be bound to one account at a time.

To pair the tool with a new account, you need to unbind it first:


1. Open the MOVAhome app. Go to  **Device**.
2. If you have multiple mowers bound to your MOVAhome account, swipe left or right to access the page of the mower you want to edit.
3. Tap  next to the tool's name.
4. Select  **Delete**.

NOTE: Unbinding will permanently erase all user data associated with the tool from the cloud.

5.3 Sharing Your Device

1. Tap  next to the tool's name.
2. Select  **Device Sharing**.

5.4 Logging Out / Deleting Account


1. Go to  **Me** > **Settings** > **General** > **Account**.
2. Select **Log Out** or **Delete Account**.


6 Operation

TurboFlow™ Technology

Under heavy load conditions, the lawn mower will automatically activate TurboFlow™ Technology. This feature utilizes a specialized airflow motor to significantly improve cutting, mulching, and bagging efficiency.

6.1 Preparations Before Use

 **WARNING:** Adjustments must only be made after stopping the motor, removing the battery pack, and confirming the blade is not rotating.

 **WARNING:** Be careful during adjustment of the machine to prevent entrapment of the fingers between moving blades and fixed parts of the machine.

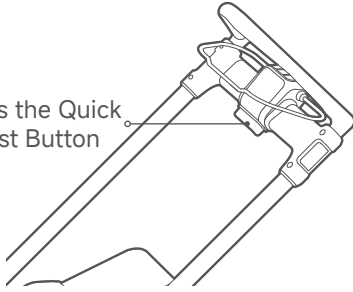
6.1.1 Adjusting the Handle

NOTE: Handle must be locked in an operating position to activate motor and self-Propelled system.

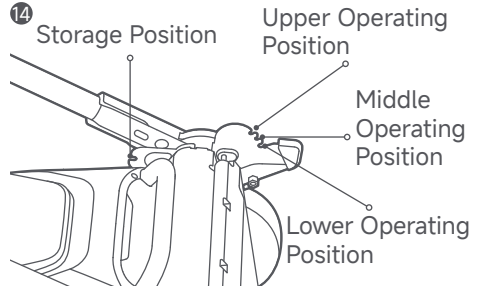
1. When unpacked, the handle is in the storage position.
2. Press down and hold the quick adjust button with one hand to disengage the handle from its storage state (Fig. 13).
3. Gently raise the handle until the lock pin clicks into place at your preferred operating position (Fig. 14).

13

Press the Quick Adjust Button



14

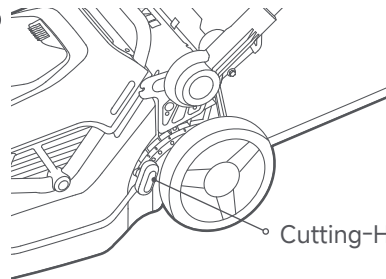


6.1.2 Adjusting the Cutting Height (Fig. 15)

The mower offers 8 cutting height settings. Select the appropriate height based on grass conditions.

1. Pull the cutting-height adjustment lever outward from the slots on the cutting-height panel.
2. While holding the lever, slide it forward or backward to select your desired height setting (Levels 1–8).
3. Insert the cutting-height adjustment lever into the slot for the desired cutting-height position.

15



Cutting-Height Adjustment Lever

Approximate Cutting-Height Setting

Number	Height
1	0.75 in (20 mm)
2	1.25 in (32 mm)
3	1.50 in (39 mm)
4	2 in (51 mm)
5	2.50 in (64 mm)
6	3 in (76 mm)
7	3.5 in (89 mm)
8	4 in (100 mm)

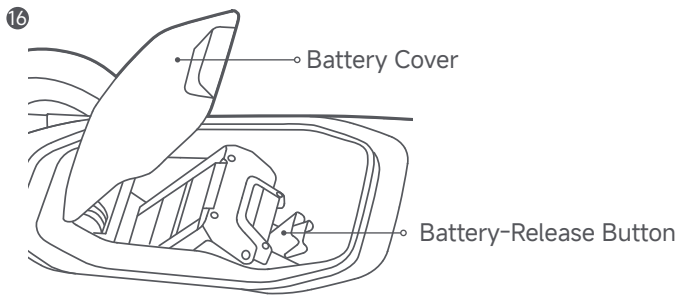
6.1.3 Attaching / Removing the Battery Pack (Fig. 16)

⚠ WARNING: Use only the battery packs specified in **Section 3.2**. Use of any other battery packs may create a risk of injury and fire. Fully charge the battery pack before first use.

⚠ WARNING: Do not use a damaged or modified battery pack. Damaged batteries can behave unpredictably and may cause fire, explosion, or injury. Do not use any battery that appears cracked, deformed, or otherwise compromised.

NOTE: Fully charge the battery pack before the first use.

1. Open the battery cover by lifting it with moderate force.
2. Align the grooves on the battery pack with the raised ribs inside the compartment.
3. Push the battery pack until you hear a "click". The battery-release button will spring up when secured.
4. Lift the battery cover. Depress the battery release button, and then remove the battery pack.
5. Close the battery cover.



6.1.4 Selecting Blade Speed Mode

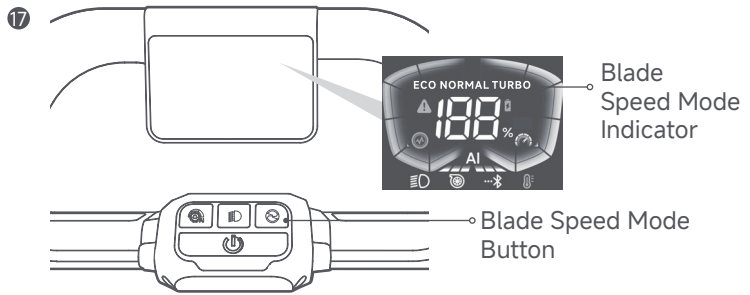
1. Select your desired blade speed mode (Fig. 17):
 - **ECO** mode provides the lowest blade speed, featuring the longest operating runtime and the lowest noise level.
 - **NORMAL** mode provides the balance of operating performance and runtime.
 - **TURBO** mode provides the highest blade speed.

2. Press the power button to turn on the LED screen. Then, press the blade speed mode button on the right of the control panel to select among **ECO**, **NORMAL** or **TURBO** modes.

NOTE: When the battery level is at or below 10%, the device automatically switches to **ECO** mode for blade speed, and the mode cannot be adjusted.

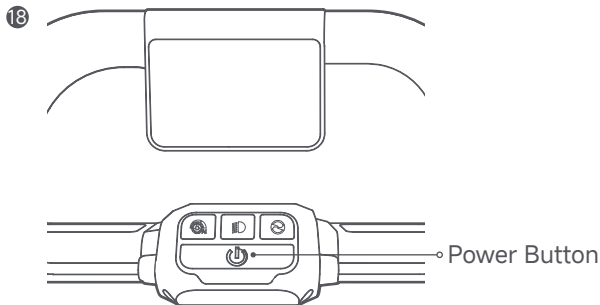
NOTE: The default blade speed mode is **NORMAL** mode.

NOTE: Higher blade speeds will reduce operating runtime.

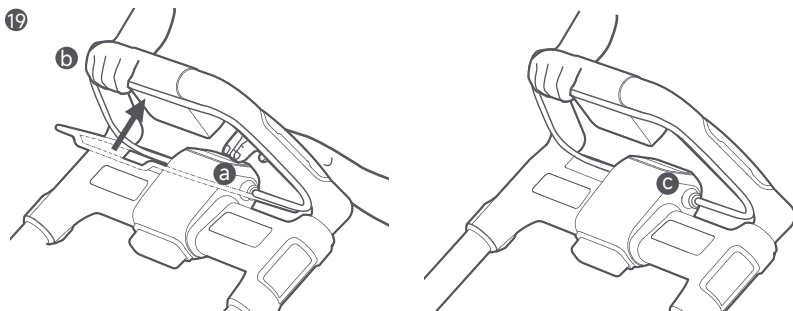


6.2 Starting / Stopping the Lawn Mower

NOTE: The mower cannot be started if the handle is not in operating position.



1. Lock the handle in one of the operating positions.
2. Install the battery pack into the mower, close the battery cover, and make sure the cover is secured before operation.
3. Press the power button to turn on the LED screen (Fig. 18).
4. Press the blade speed mode button to select the desired speed. Refer to **Section 6.1.4** in this manual for details.
5. **Starting the Mower** (Fig. 19).
 - a. Depress the power button with one hand.
 - b. With the power button depressed, hold the bail switch and pull it toward the handle.
 - c. Once the mower is turned on, release the power button.



6. Stopping the Mower

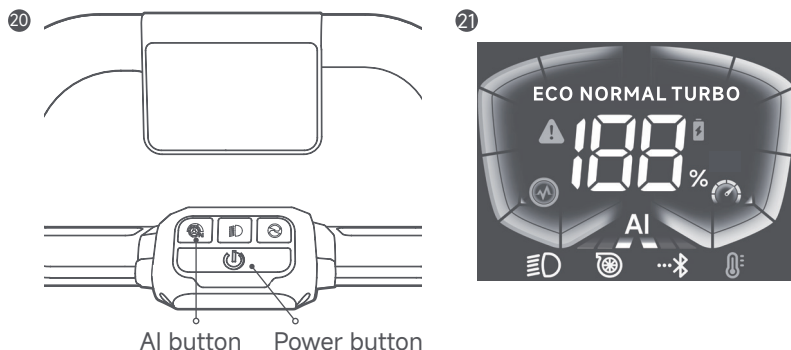
- ① Fully release the bail switch.
- ② The mower will stop operation, and the blade will come to a complete stop within 3 seconds.

6.3 Starting / Stopping Self-Propelled System

NOTE: The self-Propelled system operates independently from the blade rotation system. This means you can use the self-Propelled feature to move the mower without engaging the blade.

NOTE: To mow around an obstacle or to mow forward and backward, turning off the self-Propelled feature may improve control.

The lawn mower's adaptive self-Propelled system allows it to automatically adjust its speed to match the walking pace.





AI button Power button

1. Press the power button to turn on the LED screen (Fig. 20).
2. The self-Propelled icon **AI** will appear on the screen. The default self-Propelled speed mode is **LOW** (Fig. 21).
3. Press the AI button (Fig. 20) to select the self-Propelled speed mode in **LOW** - **MEDIUM** - **HIGH** - **OFF** .
4. Start the lawn mower, refer to Section 6.2 in this manual for details.
5. Place both hands on the self-Propelled speed control zones and push the lawn mower forward to engage the self-Propelled feature.

- With both hands on the control zones, press downward to incrementally increase the self-Propelled speed, up to the maximum speed set for each mode.

Approximate Self-Propelled Speed (Maximum)	
LOW	2.6 km/h
MEDIUM	5 km/h
HIGH	7 km/h

6.4 Turning ON/OFF the Headlights

- Press the power button to turn on the LED screen.
- Press the LED headlight button to turn on the headlight. The headlight icon  will appear on the LED screen.
- Press the LED headlight button again to turn off the headlight. The icon  will disappear from the screen.

6.5 Operation On A Slope

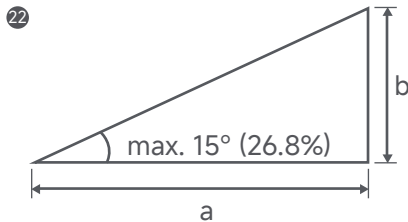
⚠ WARNING: Avoid mowing near drop-offs, ditches, or embankments. Slopes significantly increase the risk of slip-and-fall accidents, which may lead to severe injuries.

- Exercise increased caution when using the machine with the grass bag attached, as it can impact the mower's balance.
- Operate the lawn mower across the slope, do not mow up and down. Take additional care when turning or changing directions on slopes.

- Do not mow on slopes exceeding 15 degrees.**

Slope Angle Reference

- The diagram below shows a 15° slope (26.8 cm rise per 100 cm length).
- Compare your slope to the illustration (Fig. 22). If your slope appears milder, it is likely under 15°.



7 Maintenance

⚠ WARNING: Any maintenance must only be done after stopping the motor, removing the battery pack, and confirming the blade is not rotating.

⚠ WARNING: Ensure hand protection during maintenance by wearing heavy-duty gloves.

⚠ WARNING: Have your power tool serviced by qualified personnel using only identical replacement parts. Improper repairs may result in serious hazards.

7.1 Blades Care

⚠ WARNING: Wear protective glasses with side shields when performing any maintenance on the blades.

⚠ WARNING: Regularly inspect the blades for wear or damage. Worn or damaged blades may break, posing a serious risk of injury.

⚠ WARNING: An unbalanced blade can lead to significant vibration during high-speed rotation. This could result in harm to the mower and potentially break, leading to personal injury.

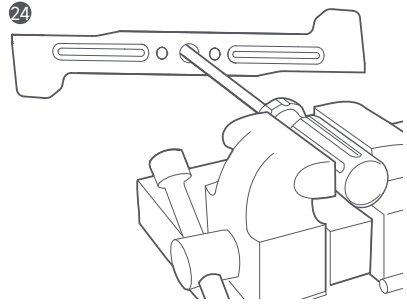
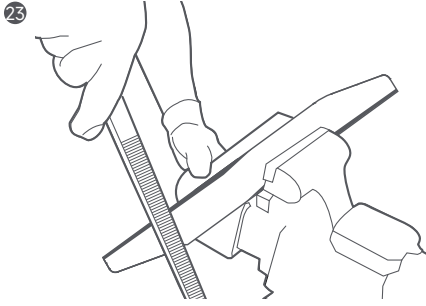
⚠ WARNING: Rotating one blade can cause the other blade to rotate.

⚠ WARNING: Even though the power source is switched off, the blades can still be moved.

Sharpening the Blades

Always keep the blades sharp for better mowing performance. Using a dull or damaged mowing blade may cause strain, poor cuts, and increase wear, risking loss of control and potential injury or property damage.

1. Remove the blades from the mower. Please refer to **Section 4.1.2** for operation details.
2. Place the blade in a vise, ensuring it remains stable during sharpening.
3. File the cutting edges of the blade in accordance with the original angle with a flat file or a sharpening stone (Fig. 23).
4. To verify the balance of the blade: Secure a nail or a screwdriver featuring a circular shaft in a level orientation. Arrange the blade in such a manner that its center hole is suspended by the nail or the circular shaft of the screwdriver, ensuring the blade is oriented horizontally. Should any side of the blade tilt downwards, carefully subtract metal from the end that appears heavier or descends lower, proceeding until the blade achieves a state of balance (Fig. 24).

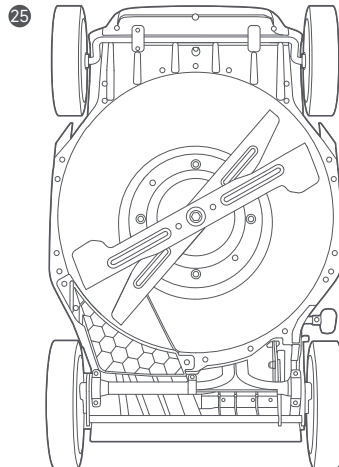


7.2 Cleaning

⚠ WARNING: Remove the battery pack from the mower before carrying out any cleaning work.

NOTE: It is essential to clean the underside of the mower deck after every use. Neglecting this can lead to the accumulation of clippings, dirt, and debris, which may cause rust and corrosion over time.

1. Fold the handle to the storage position.
2. Adjust the cutting height to position 6.
3. Stand the mower on end on a firm and level surface before doing cleaning (Fig. 25).
4. Remove all grass clippings, leaves or debris from the mower deck.
5. Clean the mowing blade and the area around with a soft brush or a damp cloth.
6. Avoid using solvents to clean the casing of the mower as most commercial solvents will damage the plastic. Use clean cloth to eliminate dust, dirt, grease, oil, and similar substances.

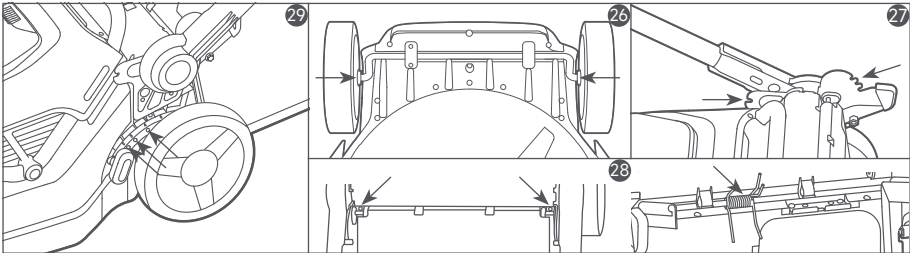


7.3 Lubrication

Apply light oil as specified below at least once per season.

Key areas to lubricate:

- Four wheel brackets (Fig. 26).
- Adjustment slots to securely lock the handle in both operating and storage positions (Fig. 27).
- Pivots and torsion spring located at the rear discharge door (Fig. 28).
- Cutting height adjustment lever and 8 cutting height adjustment slots (Fig. 29).



8 Transporting

⚠ WARNING: Always remove the battery pack from the mower before transporting.

⚠ CAUTION: When moving the lawn mower by vehicle, ensure it is firmly secured and positioned to avoid tipping over, impact, or damage. Utilize ropes or straps to fasten the handles securely.

1. Fold the handle to the storage position.
2. To move the mower, hold the front handle with one hand and hold the rear handle with the other hand. If possible, use two persons to separately hold the rear and front handle.

9 Storing

⚠ WARNING: Always remove the battery pack from the mower before storage.

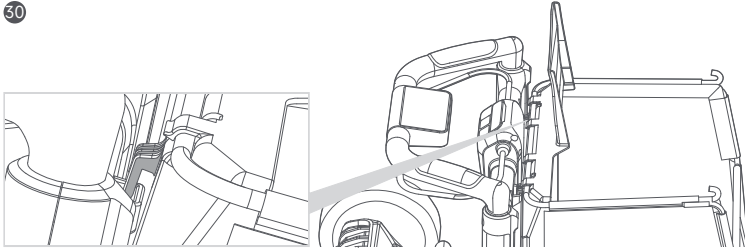
1. Keep the mower in a secure location away from children, pets, and anyone who should not have access to it.
2. Thoroughly clean the mower deck to remove grass clippings and debris.
3. Do not cover the lawn mower with heavy-duty plastic sheets as they can trap moisture, and cause rust and corrosion.

For compact storage:

1. Detach the grass bag or the side-discharge chute.

2. Lower the cutting height to its minimum setting, position 1.
3. Press the "quick adjust button" to adjust the handle to the storage position.
4. Stand the mower vertically on its rear end.
5. Hook the bottom of the grass bag onto the rear side of the mower handle (Fig. 30).

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10 Disposal



To ensure environmental safety and compliance with legal regulations, please do not dispose of the lawn mower and its accessories with regular household waste. Refer to your local laws for proper machine disposal or return it to a designated recycling center.

11 Troubleshooting

ISSUE	CAUSE/ERROR CODE	SOLUTION
The lawn mower / self-Propelled system fails to start.	The battery pack is not attached or is attached incorrectly to the tool.	Attach the battery pack securely to the tool.
	The battery pack is depleted.	Charge the battery pack.
	The handle is not locked in an operating position.	Stop the mower and adjust the handle to an operating position.
	The mower deck is blocked with grass clippings, dirt, or debris. (Error code E06)	Stop the mower, remove the battery pack, and clean the deck. Ensure blades rotate freely.
	The self-Propelled feature is not activated.	Press the "power button" to turn on the LED screen. Press the "AI button" until the "AI icon" appears.
	The power button is pressed and held while both self-Propelled speed control zones are simultaneously pressed on. The screen will begin to flash.	Release control zones and the screen will stop flashing. Then, place both hands on the self-Propelled speed control zones again to activate the feature.
	The battery pack is overheated. (Error code E01)	Allow the battery pack to cool below 65°C (149°F).
	The tool is overheated. (Error code E07)	Allow the tool to cool below 65°C (149°F).
	Battery pack malfunction (Error code E11)	Please contact MOVA Customer Service for help.
The mower does not cut evenly.	Tool malfunction (Error code E13/E14/E15/E16)	Please contact MOVA Customer Service for help.
	The blade is dull.	Sharpen or replace the blade.
	The cutting height is not set properly.	Raise the deck to a higher cutting-height position.
	The blade is not installed correctly.	Reassemble the blade. Refer to Section 4.1 .
	The blade speed mode is not set properly.	Select the proper blade speed mode.

Short runtime with the included battery.	The stated runtime is an estimate based on light load conditions; actual battery life will vary with grass thickness and cutting height.	Raise the cutting height and slow your pace to reduce the cutting load.
	The blade speed mode is not set properly.	Select a slower blade speed mode.
The mower does not mulch properly.	Wet grass clippings are sticking to the underside of the deck.	Clean the mower deck. Always mow when the grass is dry.
	The mower cuts too much grass at once, cause overloading.	Raise the deck to a higher cutting-height position.
	The blade speed mode is not set properly.	Select lower blade speed.
	Airflow system overloaded (Error code E04)	Remove the battery pack for several minutes, then restart the mower.
	Airflow system malfunction (Error code E14)	Please contact MOVA Customer Service for help.
The lawn mower stops unexpectedly during operation.	The battery pack is depleted.	Charge the battery pack.
	The mower is overloaded. (Error code E06)	Stop the mower, remove the battery pack. Check for grass clippings, dirt, or debris under the mower deck, and clean it if necessary. Raise the cutting height or slow down the mowing speed.
	The mower deck is blocked with grass clippings, dirt, or debris. (Error code E06)	Stop the mower, remove the battery pack, and clean the deck. Ensure blades rotate freely.
	The battery pack is overheated. (Error code E01)	Allow the battery pack to cool below 65°C (149°F)
	The tool is overheated. (Error code E07)	Allow the tool to cool below 65°C (149°F)
	The front of the mower is excessively tilted. (Error code E09)	For safety reasons, avoid operating the mower in this condition. Instead, reduce the tilt by adjusting the lifting angle or place the machine flat on the ground.

The lawn mower vibrates excessively.	The cutting blades are not securely fastened.	Tighten the blade nuts.
	The cutting blades are out of balance.	Keep the cutting blades balanced. Refer to Section 7.1 .
	The cutting blades are bent or deformed.	Replace the blades.
	The motor shaft is bent.	Please contact MOVA Customer Service for help.
	The mower is overloaded.	Raise the cutting height or slow down the mowing speed.
	The blade speed mode does not match the grass conditions.	Select the blade speed mode to a lower setting.
The lawn mower is hard to pull backward after disengaging the self-Propelled system.	Wheels are temporarily locked.	Slightly push the mower ahead or raise the rear wheels and then try to move the mower.
The mower becomes harder to control while navigating around obstacles or mowing back and forth when the self-Propelled feature is engaged.	Hub motors overloading (Error code E05)	Remove the battery pack for several minutes, then restart the mower.
	Hub motors malfunction (Error code E15)	Please contact MOVA Customer Service for help.
The motor works but the blades doesn't cut the grass	The shaft bolt is not sufficiently tightened.	Tighten the shaft bolt. The recommended torque specification: 36-43 ft-lb (50-60 Nm).
The screen can not be turned on.	The screen is in sleep mode.	Press the "power button" to turn on the screen.
	The screen malfunction.	Please contact MOVA Customer Service for help.

Failure to connect to the APP.	Battery pack is out of Bluetooth range.	Keep the battery pack within 10 m from the mobile device. Insert the Bluetooth-paired battery pack into the tool, or insert the battery pack first and then connect via Bluetooth.
	If holding the  on the battery pack for 2 seconds (until the Bluetooth indicator light flashes blue) does not work, the battery pack or tool may already be paired with another account.	Press and hold the  for 4 seconds (until the Bluetooth indicator light flashes rapidly in blue) to re-enter pairing mode.

12 Specifications

Model	GL620 / GL620X*
Product Name	Lawn Mower
Brand	MOVA
Voltage	60 V ===
Self-Propelled System	Yes
No-Load Speed	ECO Mode: 2700 / min
	NORMAL Mode: 2700-3000 / min
	TURBO Mode: 2700-3200 / min
Grass Bag Volume	62 L
Cutting Height	20 mm - 100 mm
Cutting Capacity	47 cm
Mower Weight (without battery&charger)	29 kg
Mower Dimensions (storage position&cutting height:1)	1564(L) × 528(W) × 968(H) mm
Operating Temperature	0°C-40°C (32°F-104°F)
Storage Temperature	-20°C-70°C (-4°F-158°F)
Measured Sound Power Level LwA	94.61 dB(A) K=3.0 dB(A)
Sound Pressure Level at Operator's Position LpA	82.2 dB(A) K=3.0 dB(A)

Guaranteed Sound Power Level LwA (measured according to 2000/14/ EC)	96 dB(A)
Valuation Value	Left handle: 0.580 m/s ² Right handle: 0.652 m/s ² K=1.5 m/s ²

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

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.

MOVA



**Join our official Facebook group
where you can discuss your questions with
other fellow users.**

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