



User Manual for Remote-controlled Lawn Mower and maintenance

Read this manual before use to ensure correct usage.





·Please read the Product Manual carefully and keep it safe for future reference.

catalogue

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Preface and Precautions

This manual is designed for operators and maintenance personnel of remote-controlled lawn mowers, providing essential technical guidance for proper use and maintenance. It is exclusively applicable to mowers manufactured by our company.

- **Be sure to read this manual carefully and refer to the purchased model for accurate product information and instructions.**

- The information and icons in this booklet are based on the latest product data available at the time of publication. The company reserves the right to modify them without prior notice.

Safety warning signs and heading symbols

The safety warning signs and signals in this manual are intended to alert readers to potential personal injury or equipment damage. Please read them carefully before use.

- The machine is marked with yellow and white safety warning signs. When you see this sign, it is a warning that there may be personal injury. You must follow the safety instructions written on the safety warning signs.

- Safety warning signs also serve to alert you to the weight of components. To prevent injuries and damage, please read this manual carefully before use.

- **Important: Minors are prohibited from operating all machine functions (including remote control)!**

- **Important:** Do not start the engine when the machine is being transported by or on a vehicle, or during transportation, as this may cause injuries to operators and nearby personnel, and damage to the machine. Staff are prohibited from standing directly in front of or behind the machine during operation.

- **Important:** If a machine encounters obstacles and cannot move or overturns, and



manual assistance is required to lift or pull it, the power must be disconnected and the engine must be turned off first.

- Important: Essential conditions for engine startup: 1. Ensure the blade can rotate normally (no foreign objects or obstructions) before starting; 2. The operator must be positioned on one side of the machine, while non-operators should remain away from the machine. No one should be positioned behind the machine when observing its front and rear views before starting.

For safety reasons, these measures must always be followed to prevent major accidents or equipment damage. Operators and maintenance personnel must thoroughly read and understand this manual before using or servicing the machine. The manual should be kept readily accessible for reference, and all personnel involved with the machine should review it regularly. The company reserves the final authority to interpret this manual.



Product Introduction

Remote-controlled lawn mower is a modern equipment for lawn trimming.

The remote control grass cutter produced by our company is mainly composed of grass cutter, running system, power system, remote control system and so on.

The power system provides power for the cutting blade, enabling the blade to rotate at high speed and effectively cut weeds and grass.

The chassis ensures smooth operation on lawns, while its remote control system stands out as a key feature. Users can operate the mower from a distance using a handheld remote, eliminating the need for manual pushing like traditional models. This design not only reduces physical strain but also enhances safety, particularly in challenging terrains or obstacle-filled areas, keeping users away from potential hazards.

The remote-controlled lawn mower is versatile, working on flat, sloped, and uneven terrains. Its adjustable cutting height accommodates various user preferences for stubble length, making lawn maintenance more convenient.

I. Introduction to the buttons

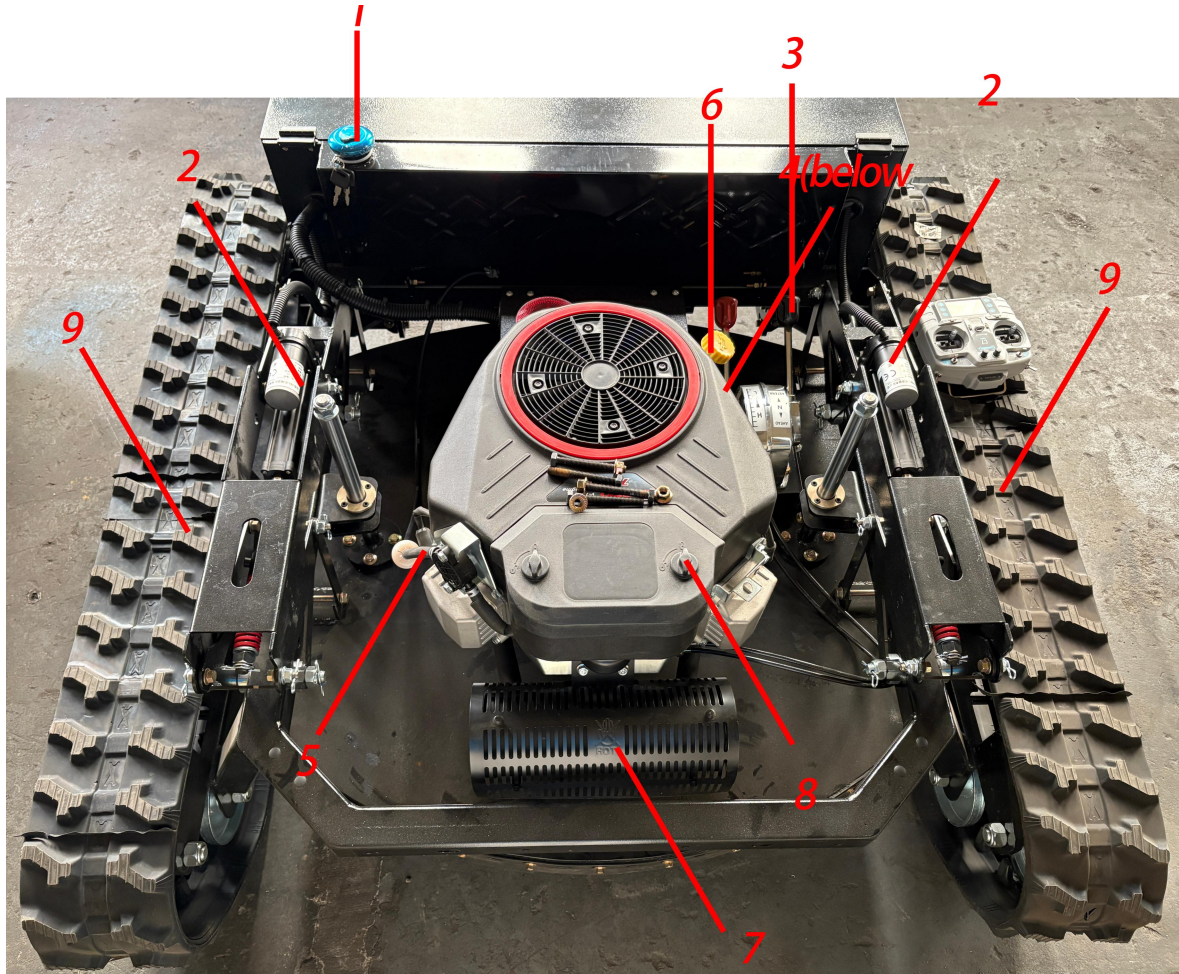


1. Battery status: Standard 22-28.9V. If the voltage is too low, recharge promptly using the provided 24V charger. For extended periods of inactivity, recharge the device every 60 days or so to prevent battery depletion and damage. Do not operate the device when the voltage is too high. Check for short circuits in the wiring or contact the manufacturer's after-sales service, as excessive voltage can damage the device.

2. Backup switch

3. Main power switch: Turn on to power the lawn mower, or off to shut it down.

II. Engine Introduction



Note: 1. Fuel tank cap: Press down and turn clockwise to open the cap. Refill with 92-octane gasoline only; do not use other types of gasoline or engine oil.

2. Electric push rods: One on each side, controlled by the remote to operate the cutter head's lifting. If either side fails to lift, stop the operation immediately, contact after-sales service for circuit inspection, and avoid external force to prevent push rod damage.

3. Throttle: As labeled, the 'rabbit' and 'turtle' gears



indicate the throttle's maximum and minimum positions respectively. When starting the engine for the first time, set the throttle to maximum, as the 608cc engine features a throttle-integrated valve design.

When the throttle is fully opened, the air valve simultaneously opens. After engine startup, the throttle must be adjusted back to the inverted triangle position (maximum) to ensure maximum engine speed for operation. This closed air valve state is essential for normal functioning. Prolonged open air valve may cause engine stalling, weak cutting power, spark plug flooding, or other issues. Normal operation requires maintaining four-stroke gasoline engine oil in the engine and sufficient fuel in the tank. (For 764cc and 810cc engines, the air valve is separate, requiring two throttle wrenches. Stand behind the machine: the left wrench controls the air valve, the right controls the throttle. Both open simultaneously during startup and close after engine starts.)

4. Oil filter: To maintain oil quality, replace the oil filter when changing the oil. It can be removed by turning the knob with a professional tool.

5. Gasoline inlet: This interface connects to the fuel tank, allowing gasoline to enter the engine. It also serves as a transparent inspection point to check if fuel is flowing



through the tank.

6. Oil Addition Port: For 608cc engines, use four-stroke gasoline engine oil based on local conditions (consult local oil distributors for specific grades). The recommended amount is approximately 1.7 liters per fill, while 764cc and 810cc engines require about 1.8 liters. Insufficient oil may impair lubrication and heat dissipation, potentially damaging the engine and voiding the warranty. Excessive oil can cause engine misfiring or smoke. Always follow the oil level indicator and recommended dosage, and drain the old oil before adding new.

7. Muffler: Functioning as the engine's exhaust system, it regulates emission levels. This model complies with European and American emission standards, and any damage may cause excessive engine noise.

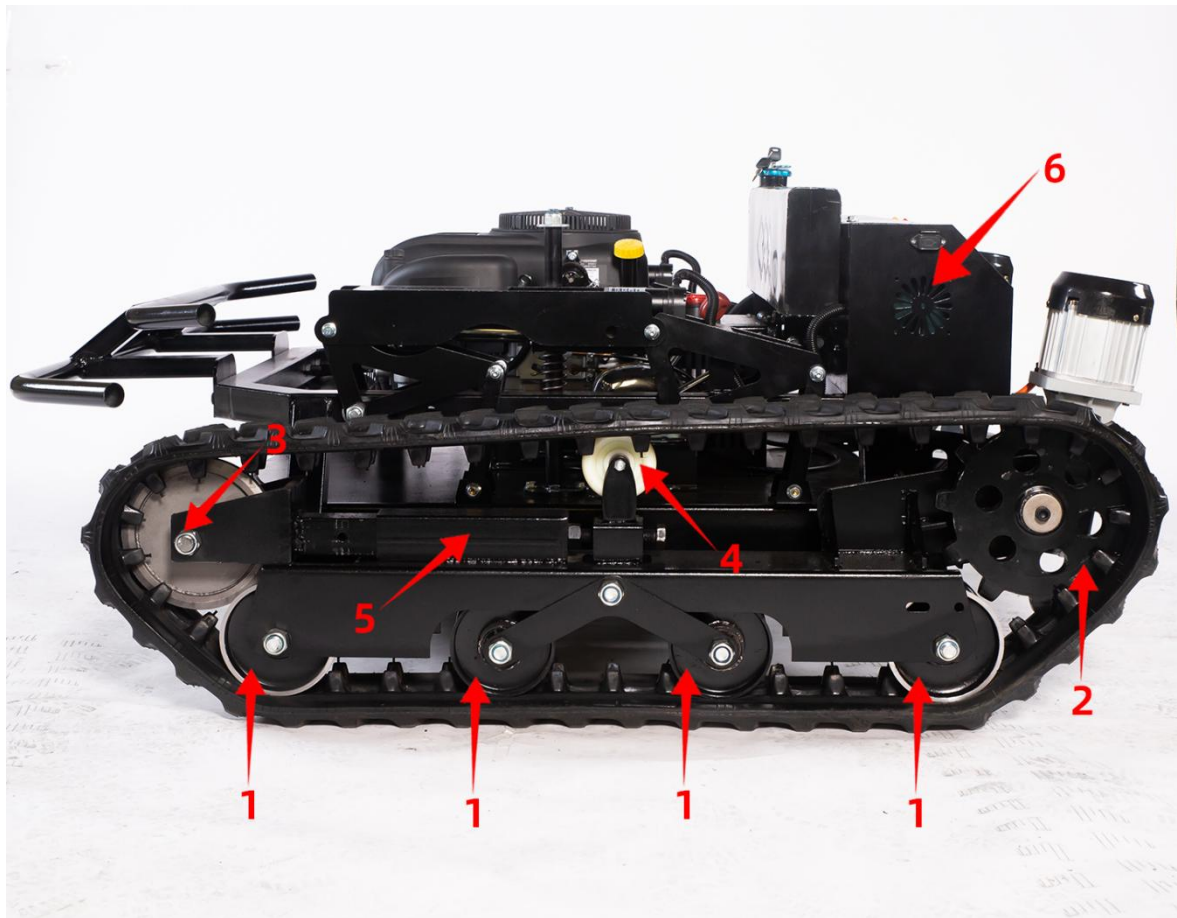
8. Air filter switch: Turn it to the left to remove the plastic cover and inspect the air filter's condition. Depending on your environment, check the filter daily. If it's covered in dust, clean it promptly. The air filter inlet is where the engine draws air during startup. A clogged filter can make the engine hard to start or cause other issues.

9. Treadplate: Responsible for the machine's contact with the ground and its operation.

III.



IV. Chassis Introduction:



1. The support wheels of the lawn mower: They support the machine's weight and work with the tracks to ensure smooth operation.

2. Drive wheel: The largest wheel on the lawn mower, powered by an electric motor. It drives the tracks through its internal gears, enabling the machine to move.

3. Guide wheel: The tension of the track is adjusted by 55 tension screws.

4. Small support wheels: These wheels provide support for the tracks when the machine encounters significant bumps during operation.

5. Tensioning screw: Adjust the tensioning screw to control the tightness of the track, ensuring normal operation.

When the equipment is idle, the track should be pulled upward by 2-3 cm. The track must neither be too tight nor too loose: excessive tightness may damage the motor gears, while excessive looseness could cause the track to detach.

6. Heat dissipation vent of the control box: When powered on, the built-in fan rotates to dissipate internal heat and ensure proper circuit operation.

V. Introduction to the Bottom Cutting Disk:



1. Blades: For proper engine operation, both blades must remain undamaged. If any damage is detected, immediately shut down the



engine and replace the affected blades. Starting the engine with a broken blade will cause imbalance, excessive vibration, and potential muffler damage. If the blades hit a hard object, promptly shut down the engine and inspect the disc's integrity. Ensure the blades are sharp and handle with care during installation.

2. Blade screws: Strength above 8.8. Since the blade holder has threads, a nut must be tightened to ensure the blade rotates. The screws should also be replaced promptly if worn or deformed to prevent accidents.

Wear and tear of the grass cutter blade when it contacts the ground and operates at high speed is a normal phenomenon, and the worn parts must be replaced in time.

3. Engine center shaft screws: Inspect immediately if they hit a hard object or become loose. These are non-standard British-style screws. Remove them as standard screws, and apply a drop of high-strength screw adhesive before installation for better performance.

4. Tool holder: The tool holder has a relatively low failure rate. If the center shaft screw is not checked and maintained promptly, gaps may form between the tool holder and the engine connection, which can easily cause the tool holder head to crack.

5. Bottom shell: The protective cutter disc operates normally.



VI. Maintenance of Gasoline Engines

Warning: For the first maintenance, change the oil every 15-20 hours. Thereafter, replace it every 100 hours or less. Use four-stroke gasoline engine oil according to the engine model, with the recommended fuel quantity specified above.

Before performing any maintenance, please turn off the engine and use genuine original parts. Using inferior substitutes may damage the engine. To maintain optimal performance, regular inspections and adjustments are essential. Routine maintenance also ensures a long service life.

Clean the air filter daily or periodically based on the machine's operating environment. Replace it promptly if the usage cycle no longer allows cleaning, and refer to the engine manual for additional instructions.

VII. Inspection of the Machine and Precautions

Precautions for daily use of remote-controlled lawn mower

1. If the machine collides with a hard object during operation, immediately stop and inspect the cutter head for malfunction before resuming work. At the end of each day, check all machine screws, especially the tool holder position, to prevent loosening or detachment that could cause operational failure.
2. The lawn mower must not turn on its own axis (if you are unfamiliar



with the terrain, hard objects like bricks, stones, or tree roots on the track side may jam the tracks, potentially causing them to detach and impair normal operation).

VIII. Troubleshooting Common Issues

The engine won't start.	Engine start-up requirements: 1) Ensure no obstructions in the disc position; 2) Verify fuel supply by removing carburetor screws to check fuel flow, and clean the air filter with regular oil changes; 3) For electric-start models, confirm battery charge is at least 60%; 4) Check spark plugs for ignition. If not functioning, contact the manufacturer's after-sales service.
The engine vibrates heavily after starting.	Shut down the engine promptly and inspect the cutter head section. Check if the blades are intact. Replace them immediately if any are broken.
The engine is emitting black smoke.	If the oil quality is poor or the oil replacement amount is excessive, the solution is to add the correct amount of oil according to the corresponding model. Any excess should be drained, or if the machine is tilted too much during transportation or operation, the issue will resolve itself after about one minute of normal operation.
The machine and the remote control are not connected. match by method	Check that both the device and the remote control have power.
The remote control is not working or the machine is moving on its own	When the remote is in cruise mode, the machine cannot be moved forward or backward and will keep moving. If this happens, immediately turn off the main power supply. To resolve this, press the cruise button again to cancel the cruise mode. After turning on both the machine and the remote, the machine will start moving automatically. Check if the remote's push rod is centered.
remarks	Troubleshooting is for novice operators. If you have any questions, contact the factory after-sales team directly. Thank you for your support.