



User Manual for Remote-controlled Lawn Mower and maintenance

Read this manual before use to ensure correct usage.



Jinan Blue Bull Intelligent Technology Co.,
Ltd.



·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 information for proper operation and care. It is exclusively applicable to machines manufactured by our company.

- **Please read this manual carefully and refer to the corresponding model for accurate product information and guidelines.**

- 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 equipped with yellow and white safety warning signs. When you see these signs, they indicate potential personal injury hazards. Always follow the safety instructions provided on the 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 any machine functions (including remote control)!**

- **Important:** The engine must not be started during the loading/unloading of the transport vehicle, while on the transport vehicle, or during transportation, as this may cause injuries to operators and adjacent personnel, as well as damage to the machinery. Personnel 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 the side of the machine (at least 10 meters away), and non-operating personnel must remain distant from the machine. No one should stand behind the machine when observing its front or rear, and the engine must not be started under these conditions.

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 stored in a convenient location for easy access, and all personnel involved with the machine should review it regularly. The company reserves the final authority to interpret this manual.



Product Introduction

Remote control 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 remotely via a handheld controller, 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 zones, keeping users away from potential hazards.

The remote-controlled lawn mower adapts to diverse terrains including flat surfaces, slopes, and uneven ground. Its adjustable cutting height accommodates various user requirements for stubble length, significantly streamlining lawn maintenance.

I. Introduction to the Buttons



1. Battery status: Standard voltage range is 22-28.9V. If the voltage drops below this range, use the provided 22V charger to recharge promptly. 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 may damage the device.

2. 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. Add 92-octane gasoline to the tank. Do not use other types of gasoline or engine oil.

2. 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 224cc engine features a throttle-integrated valve design.

When the throttle is fully opened, the air intake valve simultaneously opens. After engine startup, the throttle must be



adjusted back to the maximum position (a small inverted triangle) to achieve peak engine speed for operation. This closed state is essential for normal functioning. Prolonged opening of the air intake valve may cause engine stalling, weak cutting power, or spark plug flooding.

To ensure proper operation, maintain four-stroke gasoline engine oil in the engine and sufficient fuel in the tank. (For 764cc and 810cc engines, the throttle and accelerator are separate components, each equipped with a dedicated wrench. Stand behind the machine: the throttle is on the left, the accelerator on the right. Both should be opened simultaneously during startup, and the throttle should be closed after engine start-up.)

4. 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.

5. Oil Addition Port: For 224cc engines, use four-stroke gasoline engine oil based on local conditions. Consult your local oil distributor for specific specifications. The recommended oil level is approximately 1.0 liters per addition, while 608cc, 764cc, and 810cc engines require about 2.0 liters. Insufficient oil



may impair lubrication and heat dissipation, potentially damaging the engine and voiding the warranty. Excessive oil can cause issues like difficult starts or smoke. Always follow the oil level indicator and recommended dosage, and drain the old oil before adding new oil.

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. Introduction to C7 Remote Control

Instructions for remote control functions



1. High-speed and low-speed modes indicate the machine's movement speed: lifting upward indicates high-speed movement, while lifting downward indicates low-speed movement. (Note: Deviations during high or low-speed operation are normal motor speed errors, more noticeable at low speeds. Normal operation occurs at high speed. Adjust the left/right push rods for fine-tuning to ensure straight-line movement.)



2. Tool head elevation control: The tool head is raised to increase its height above the ground, or lowered to decrease it. When centered, the tool head remains stationary, indicating the machine is in a neutral position during operation. This applies to simple lawn mowers. This feature is not available.
3. Starting/Extinguishing: Pull up to start the engine, pull down to extinguish. Essential conditions for engine startup: Ensure no obstructions at the machine base. Minors are strictly prohibited from operating. Keep the machine base free of any objects. Do not start the engine directly in front or behind it. Replace any damaged blades, cutter discs, or other components promptly. Ensure the cutter holder rotates normally, as it moves during startup. Any damage or injuries caused by this rotation are the customer's responsibility. The engine must contain standard four-stroke gasoline oil, with fuel flowing through the fuel port and the air valve open.
- 4: Cruise control function: To maintain forward or backward movement, press the button upward. The device will keep moving continuously while the RF light flashes. To disengage, repeat the action until the RF light turns off.
5. Forward/Backward Push Rod: Controls the machine's forward and backward movement
6. Left and right push: Control the machine's lateral movement. Press



continuously to rotate the machine 360 degrees in place.

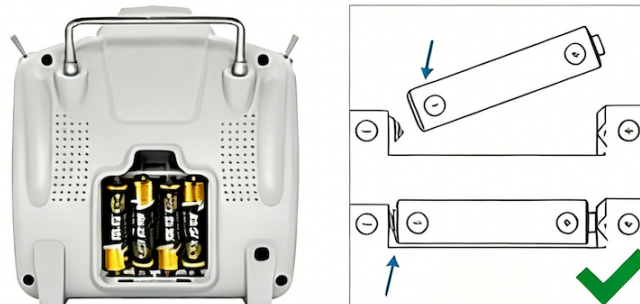
7. Power button on the remote control: Press and hold the power button to turn the remote on or off. If the battery is low, the remote will emit a 'beep-beep' sound while the POWER indicator light flashes, requiring replacement with four AA batteries (Nanfu batteries work better).

A. Instructions for installing remote control batteries and precautions:

Detailed Instructions

Power Supply:

DC4.5-9V, 4 AA batteries can be installed into the battery compartment as shown below,



Attention!!





B.Remote control precautions:

Read the following precautions carefully before using the remote control.

1. This product is not a toy and is not suitable for children under 12 years of age. Adults should keep this product out of reach of children and exercise caution when operating it in the presence of children.
2. Do not use under adverse weather conditions such as nighttime, thunderstorms, snow, or low visibility.
3. Do not use in rainy, snowy, or wet conditions. If rainwater enters the remote control, it may cause a short circuit and render it inoperable.
4. Signal interference may cause the remote control to lose control; areas with significant interference include the following:
 - A.Near the mobile phone signal transmission tower
 - B.Near high-voltage power lines and communication/broadcasting antennas
 - C.Near the military radar transmission tower
 - D.Wireless communication is complex and involves human activities on commercial roads.
 - E. navigable waters
5. Do not use this product when the user is fatigued, unwell, has consumed alcohol, or has taken anesthetics or stimulants, as this may result in severe harm to oneself or others.
- 6.2.4 The 2.4GHz wireless band is entirely different from the low-frequency radio bands previously used. When operating, ensure the model remains within your line of sight. Large obstacles may block the wireless signal, causing the remote control and model to lose control.
7. Before use, ensure the remote control and model are properly installed, and that all servos operate in the same direction as the control. Otherwise, the model may sustain serious damage.
8. Prolonged remote control operation may cause loss of control. Reduce the control distance appropriately. Insufficient battery voltage in the remote control or transmitter signal failure can also lead to loss of control. If the remote control's "POWER" indicator flashes and an alarm sounds, replace the battery immediately.
9. When removing the remote control, always first disconnect the receiver's power supply before turning off the remote. If the remote is powered off before the receiver, the device may continue to operate, potentially causing the model to lose control or the engine to keep running, which could lead to serious accidents.



10. Improper use of the remote control may cause serious injury or even death to the operator or others. To ensure the safety of you, others, and the equipment, please read this guide carefully and operate according to the instructions.

11. The remote control and receiver required for our company's 2.4G wireless transmission system must be used in pairs, and products from other manufacturers cannot be compatible with our system.

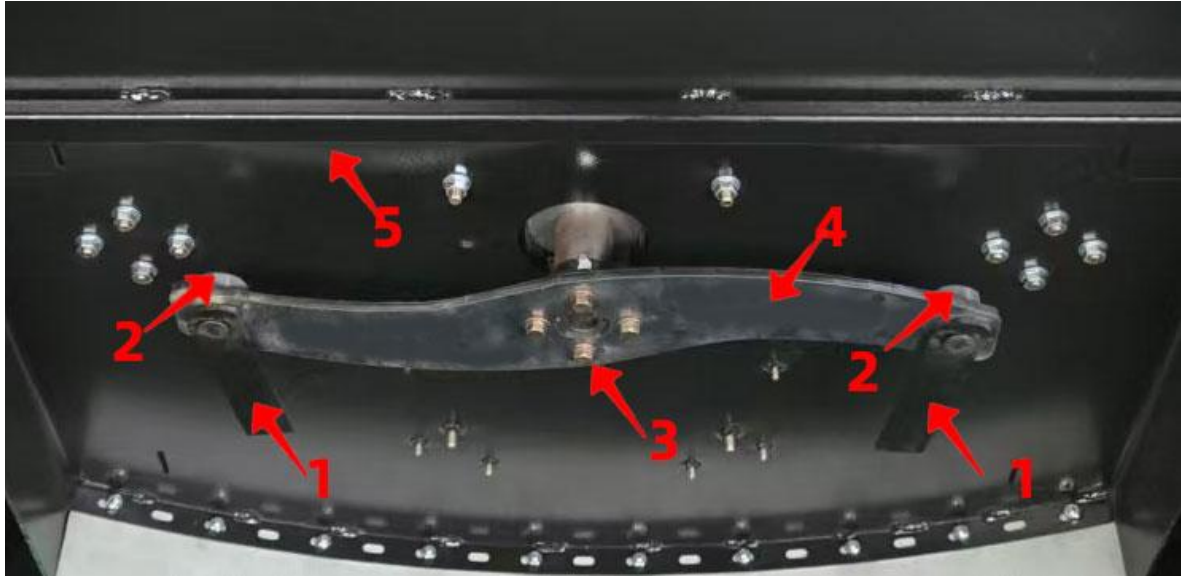
IV. Chassis Introduction:



1. Four-wheel lawn mower: Supports the mower's weight to ensure smooth operation.

2. Heat dissipation vent of the control box: When the power is turned on, the fan rotates to dissipate heat from the control box 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. Upon impact with hard objects, promptly shut down the engine and inspect the blade assembly for 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 loosen. These are non-standard British-style screws.

Remove them as usual, using the right thread. For better performance, apply a drop of high-strength screw adhesive before installation.

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 functions 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. Refer to the engine manual for additional instructions.



VII. Machine Inspection and Precautions

Precautions for daily use of remote-controlled lawn mower

1. When the machine collides with a hard object during operation, immediately stop the machine and inspect the cutter head for normal functioning before resuming work. At the end of each workday, check all machine screws, particularly 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 startup requirements: 1) Ensure no obstructions in the disc position; 2) Confirm fuel supply by removing carburetor screws to check fuel flow and regularly changing oil to clean the air filter; 3) For electric start models, ensure battery power is at least 60% full; 4) Check spark plugs for ignition. If ignition fails, 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 engine oil quality is poor or excessive oil is replaced, 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 excessively during transportation or operation, the issue will resolve automatically after approximately one minute of normal operation.
The machine and 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 will move continuously without forward or backward operation. If this occurs, immediately turn off the main power supply. To resolve the issue, press the cruise button again to cancel the cruise mode. After turning on both the machine and the remote, the machine will drive automatically. Check if the remote's push rod is centered.
remarks	Troubleshooting is for novice operators. If you have any questions, please contact the factory after-sales team directly. Thank you for your support.