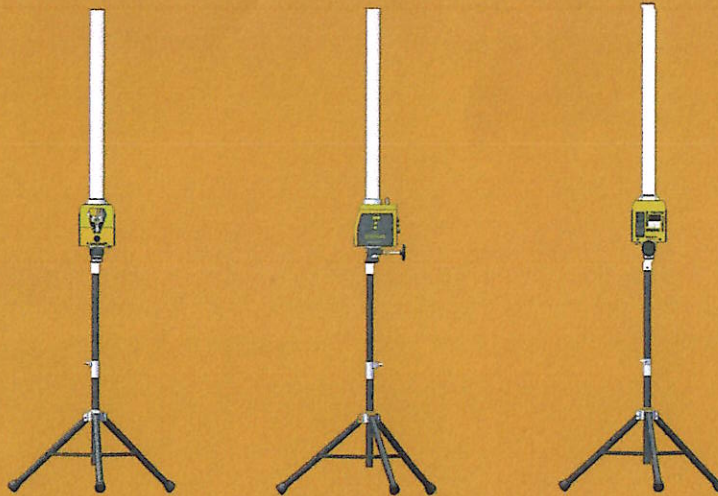




**BADDYBOT BADMINTON
TRAINING BOT
INSTRUCTIONS**

Product Model: BaddyBot Pro



PRODUCT INFORMATION

Product Specifications

Machine Weight	8.15Kg
Stand Weight	3.35Kg
Shuttlecock Tube Weight	0.7 Kg*2
Machine Dimensions	240*260*182mm
Shuttlecock Tube Dimensions	φ80*1000mm
Stand Dimensions	90*90*850mm

Functional Specifications

Serving Height	1.5~7.5 m
Serving Frequency	0.6~5 shuttles/sec
Maximum Serving Distance	8.5 m
Minimum Serving Distance	2.5
Shuttlecock Capacity	45 shuttles/tube
Angle Adjustment	Manual adjustment

Power Specifications

Input Voltage	DC 24V
Power Adapter Wattage	240W
Power Interface	DC5.5-2.5
Li-ion Battery (optional) charging time	3.5 hours

Control Method

Manual Adjustment of Serving Power
Manual Adjustment of Serving Frequency
Manual Adjustment of Serving Angle
Remote Control of Serving and Stopping

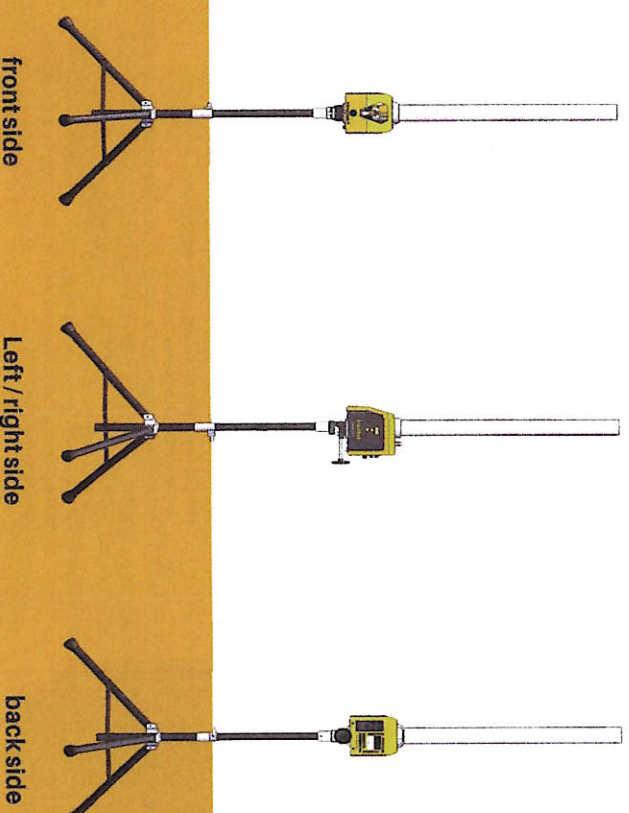
Serving Modes

Fixed-Point Serving (Net Shots, Drive Shots, Clear Shots, Smash Defense)
Four-Corner Shots (Random Shots, Sequential Shots)
Two-Point Shots (Left and Right) (Random Shots, Sequential Shots)
Sweeping Mode Serving (Net Shots, Drive Shots, Clear Shots, Smash Defense Shots)
Smash-and-Rush Serving Mode (Sequential Mode, Random Mode)

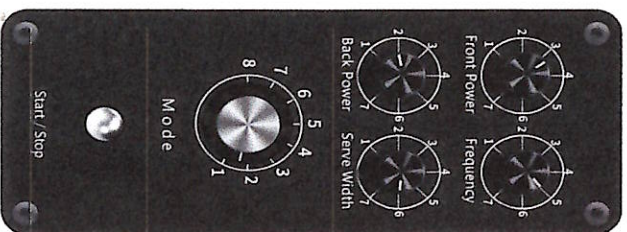
PRODUCT SETUP INSTRUCTIONS

- 01** Loosen the screws on the side of the stand, unfold the tripod, adjust it to the desired height, and then tighten the screws to secure it.
- 02** Insert the main serving unit into the top of the tripod from above, then hand-tighten the screws to secure it.
- 03** Insert the assembled shuttlecock tube into the shuttlecock inlet at the top of the launcher. Make sure it is fully inserted; otherwise, it may cause instability in gripping the shuttlecocks.
- 04** Connect the adapter to the extension cord, then plug it into the power socket at the bottom of the shuttlecock launcher. Then, supply power to the adapter.

- 05** Select the serving mode on the control panel to start your training.



BADDYBOT PRO OPERATING INSTRUCTIONS

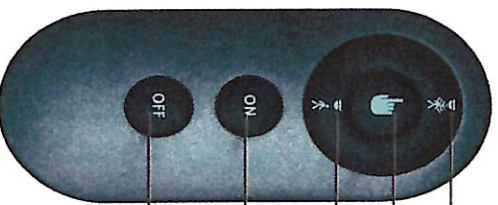


The four knobs are used to adjust the serving power, serving frequency, and serving width in different modes.

User Manual	
Level 1	Neutral Setting
Level 3	Two-Point Alternating Serving
Level 5	Sweep Mode
Level 7	Random Four-Corner Mode
Level 2	Fixed Point Serving
Level 4	Smash and Net Play
Level 6	Four-Corner Mode
Level 8	Random Six-Point Mode

The Start/Stop button is used to control the machine's operation. It cannot be started in "Level 1- Neutral Setting" mode

Remote Control Instructions *CR 2032*



- Activate the Safety Sensor
- Single-Press Serving Mode
- Deactivate the Safety Sensor
- Start (continuous serving)
 - 1. Entering Pairing Mode:
 - Power on the ball machine and wait for 10 seconds.
 - Press and hold the OFF button on the remote control for 2 seconds.
 - The device will enter pairing mode.
 - Once pairing is successful, the indicator light on the remote control will flash 3 times.
 - 2. Entering Unpairing Mode:
 - Repeat the same operation (press and hold the OFF button for 2 seconds).
 - The device will enter unpairing mode.
 - After unpairing, the remote control will no longer communicate with the receiving module.
- ON
- OFF

This design allows users to conveniently pair and unpair the remote control with the ball machine. You could also include additional information about error handling or notifications in case of pairing failure.

NEUTRAL SETTING

User Manual

Level 1	Neutral Setting
Level 2	Fixed Point Serving
Level 3	Two-Point Alternating Serving
Level 4	Smash and Net Play
Level 5	Sweep Mode
Level 6	Four-Corner Mode
Level 8	Random Six-Point Mode
Level 7	Random Four-Corner Mode

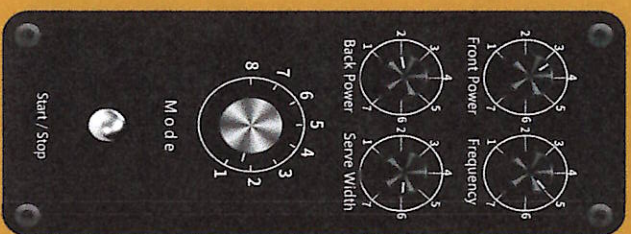
Set the mode selection knob to "1" while the machine is stopped. Press and hold the "Start/Stop" button for 5 seconds to enter Neutral Setting Mode.

Press "Start/Stop" again to confirm the center point. A beep will indicate the setting is complete.

Use the "Serve Width" adjustment knob to correct left or right alignment.

Do not adjust the mode selection switch during this process. Choose the launching mode after completing the settings.

FIXED-POINT SERVING



User Manual

- Level 1 Neutral Setting
- Level 2 Fixed Point Serving**
- Level 3 Two-Point Alternating Serving
- Level 4 Smash and Net Play
- Level 5 Sweep Mode
- Level 6 Four-Corner Mode
- Level 8 Random Six-Point Mode
- Level 7 Random Four-Corner Mode

When the machine is in a stopped state, turn the mode selection knob to position "2". Then press the "Start/Stop" button to begin launching shuttlecocks, or alternatively, press the button on the remote control to start launching.

Mode Selection: Level 2

Angle Adjustment Knob:
Adjust the launcher's elevation as needed. This mode supports all types of fixed-point serves.

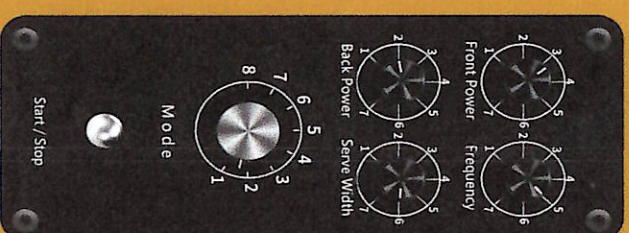
Serve Width Adjustment:
In the current mode, the "Serve Width" knob is inactive.

Serve Power Adjustment:
In the current mode, the "Back Court Power" knob is active.

Serve Frequency Adjustment:
In the current mode, the "Serve Frequency" knob is active.

Stand Height Adjustment:
Adjust the stand height as needed, usually to approximately 1.5 meters. If the shuttlecock fails to pass over the net, raise the stand height.

TWO-POINT ALTERNATING SERVING



User Manual

- Level 1 Neutral Setting
- Level 2 Fixed Point Serving
- Level 3 Two-Point Alternating Serving**
- Level 4 Smash and Net Play
- Level 5 Sweep Mode
- Level 6 Four-Corner Mode
- Level 8 Random Six-Point Mode
- Level 7 Random Four-Corner Mode

When the machine is in a stopped state, turn the mode selection knob to position "3". Then press the "Start/Stop" button to begin launching shuttlecocks, or alternatively, press the button on the remote control to start launching.

Mode Selection: Level 3

Angle Adjustment Knob:
Adjust the launcher's elevation as needed. This mode supports all types of two-point (left-right) alternating serves.

Serve Width Adjustment:
In the current mode, the Serve Width knob allows adjustment of the serve width.

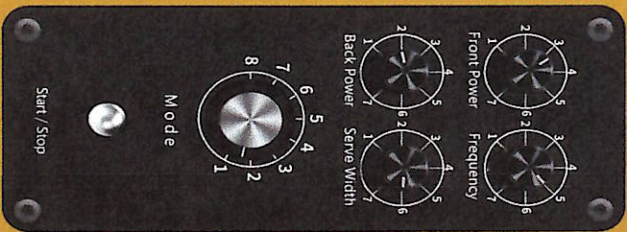
Serve Power Adjustment:
In the current mode, the "Back Court Power" knob is active.

Serve Frequency Adjustment:
In the current mode, the "Serve Frequency" knob is active.

Stand Height Adjustment:
Adjust the stand height as needed, usually to approximately 1.5 meters. If the shuttlecock fails to pass over the net, raise the stand height.

SMASH AND NET PLAY

SWEEP MODE



User Manual

- Level 1 Neutral Setting
- Level 2 Fixed Point Serving
- Level 3 Two-Point Alternating Serving
- Level 4 Smash and Net Play**
- Level 5 Sweep Mode
- Level 6 Four-Corner Mode
- Level 8 Random Six-Point Mode
- Level 7 Random Four-Corner Mode

When the machine is in a stopped state, turn the mode selection knob to position "4". Then press the "Start/Stop" button to begin launching shuttlescocks, or alternatively, press the button on the remote control to start launching.

Mode Selection: Level 4

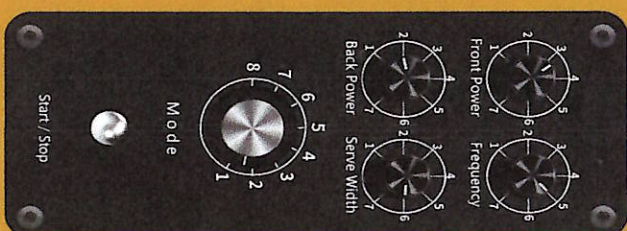
Angle Adjustment Knob:
Adjust the launcher's elevation as needed. This mode supports front-to-back footwork training.

Serve Frequency Adjustment:
In the current mode, the "Serve Frequency" knob is active.

Serve Power Adjustment:
In the current mode, "Front Court Power" adjusts the power for short-range shots, while "Back Court Power" adjusts the power for long-range shots.

Serve Width Adjustment:
In the current mode, the "Serve Width knob" is inactive.

Stand Height Adjustment:
Adjust the stand height as needed, usually to approximately 1.5 meters. If the shuttlecock fails to pass over the net, raise the stand height.



User Manual

- Level 1 Neutral Setting
- Level 2 Fixed Point Serving
- Level 3 Two-Point Alternating Serving
- Level 4 Smash and Net Play
- Level 5 Sweep Mode**
- Level 6 Four-Corner Mode
- Level 8 Random Six-Point Mode
- Level 7 Random Four-Corner Mode

When the machine is in a stopped state, turn the mode selection knob to position "5". Then press the "Start/Stop" button to begin launching shuttlecocks, or alternatively, press the button on the remote control to start launching.

Mode Selection: Level 5

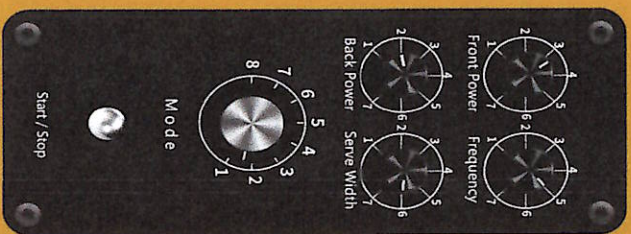
Angle Adjustment Knob:
Adjust the launcher's elevation as needed. In this mode, the machine will serve while rotating left and right continuously.

Serve Width Adjustment:
In the current mode, the Serve Width knob allows adjustment of the serve width.

Serve Power Adjustment:
In the current mode, the "Back Court Power" knob is active.

Stand Height Adjustment:
Adjust the stand height as needed, usually to approximately 1.5 meters. If the shuttlecock fails to pass over the net, raise the stand height.

SMASH AND NET PLAY



User Manual

- Level 1 Neutral Setting
- Level 2 Fixed Point Serving
- Level 3 Two-Point Alternating Serving
- Level 4 Smash and Net Play
- Level 5 Sweep Mode
- Level 6 Four-Corner Mode
- Level 7 Random Four-Corner Mode
- Level 8 Random Six-Point Mode

When the machine is in a stopped state, turn the mode selection knob to position "6" or "7". Then press the "Start/Stop" button to begin launching shuttlecocks, or alternatively, press the button on the remote control to start launching.

Mode Selection: Level 6, Continuous Four-Corner Mode / Level 7 Random Four-Corner Mode

Angle Adjustment Knob:
Adjust the launcher's elevation as needed. In this mode, training for four drop points (front, back, left, and right) can be performed.

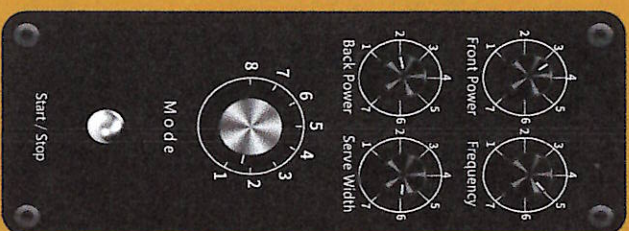
Serve Frequency Adjustment:
In the current mode, the "Serve Frequency" knob is active.

Serve Power Adjustment:
In the current mode, "Front Court Power" adjusts the power for short-range shots, while "Back Court Power" adjusts the power for long-range shots.

Serve Width Adjustment:
In the current mode, the "Serve Width" knob allows adjustment of the serve width.

Stand Height Adjustment:
Adjust the stand height as needed, usually to approximately 1.5 meters. If the shuttlecock fails to pass over the net, raise the stand height.

SIX-POINT RANDOM MODE



User Manual

- Level 1 Neutral Setting
- Level 2 Fixed Point Serving
- Level 3 Two-Point Alternating Serving
- Level 4 Smash and Net Play
- Level 5 Sweep Mode
- Level 6 Four-Corner Mode
- Level 7 Random Four-Corner Mode
- Level 8 Random Six-Point Mode

When the machine is in a stopped state, turn the mode selection knob to position "8". Then press the "Start/Stop" button to begin launching shuttlecocks, or alternatively, press the button on the remote control to start launching.

Mode Selection: Level 8

Angle Adjustment Knob:
Adjust the launcher's elevation as needed. In this mode, random shots can be served to three points in the frontcourt and three points in the backcourt.

Serve Frequency Adjustment:
In the current mode, the "Serve Frequency" knob is active.

Serve Power Adjustment:
In the current mode, "Front Court Power" adjusts the power for short-range shots, while "Back Court Power" adjusts the power for long-range shots.

Serve Frequency Adjustment:
In the current mode, the "Serve Frequency" knob is active.

Stand Height Adjustment:
Adjust the stand height as needed, usually to approximately 1.5 meters. If the shuttlecock fails to pass over the net, raise the stand height.

SAFETY INSTRUCTIONS

Preparation Before Use

Check Equipment Integrity: Before use, carefully inspect all components of the badminton shuttlecock launcher, including the launch wheel, motor, stand, and control panel, for any damage or abnormalities. If any issues are found, stop using the machine immediately and contact customer service for repairs.

Read the User Manual: Thoroughly read the accompanying user manual to familiarize yourself with the machine's specifications, operating procedures, and precautions to ensure safe and correct use.

Inspect and Prepare the Venue: Ensure the launcher is placed on a flat and stable surface, away from water, fire, or other hazards. Check the area for obstacles to prevent shuttlecocks from hitting objects or people during operation, which could lead to accidents.

Power Supply Safety: Use only the power adapter specified for the product. Check that the power cord is intact, and the plug is securely connected. Avoid using the launcher in wet conditions to prevent electrical shocks.

Precautions During Operation

Proper Shuttlecock Placement: Place the shuttlecocks correctly into the storage hopper to prevent jamming or damage. Avoid introducing foreign objects into the hopper to ensure smooth operation.

Adjust Launch Parameters: Adjust the launch speed, angle, and frequency as required for training. Make adjustments slowly and smoothly to prevent overloading the machine or causing the shuttlecock to deviate from its intended range.

Maintain a Safe Distance: During operation, all personnel should maintain a safe distance from the machine. Avoid standing directly in front of the launcher or along the trajectory of the shuttlecocks. It is recommended to operate and train from the sides or behind the machine for safety.

Avoid Frequent Starts and Stops: Minimize frequent starting and stopping of the launcher, as this can cause motor overheating or damage. If you need to pause operation, follow the proper shutdown procedure and wait for the machine to come to a complete stop before proceeding.

Maintenance After Use

Clean the Machine: After use, clean the surface and internal components of the launcher to remove dust, feather debris, and other particles. Regularly inspect critical components, such as the launch wheel and motor, for wear and replace any damaged parts promptly.

Power Off and Store: Disconnect the power supply when the machine is not in use. Store the launcher in a dry, well-ventilated, and cool location, away from direct sunlight, high temperatures, or humidity.

Regular Maintenance: Conduct periodic inspections and maintenance, including lubricating moving parts, tightening screws, and calibrating launch parameters, to ensure long-term stable performance and safe operation.

Other Considerations

Use by Children: Children must use the badminton launcher under adult supervision to prevent accidents caused by improper operation or lack of safety awareness.
 Compliance with Laws and Regulations: When using the launcher, adhere to local laws, regulations, and venue rules. Do not use the machine for illegal activities or in violation of safety protocols.
 Warranty and After-Sales Service: This product includes a warranty for a specified period. If non-human damage occurs within the warranty period, contact the service center for free repairs or replacement. After the warranty period, paid repair services are available, with costs determined by the specific repairs required.

Emergency Handling

Equipment Malfunction: If the launcher exhibits abnormal behavior, such as unusual noises, overheating, or failure to operate, stop using it immediately and disconnect the power. Contact professional repair services and avoid disassembling or repairing the machine yourself.

Injury Incidents: If an injury occurs during operation, stop the machine immediately and provide necessary first aid to the injured person. Seek medical attention promptly and investigate the cause of the incident to prevent recurrence.

TROUBLESHOOTING (1)

01 Machine Does Not Start

- **Issue:** After pressing the start button, the machine does not respond or launch shuttlecocks.
- **Possible Causes and Solutions:**
 - **Power Supply Issue:** Check if the power plug is securely connected and if the power cord is damaged. Reconnect the plug or replace the power cord if needed.
 - **Blown Fuse:** If the power connection is normal but the machine still does not start, the fuse may be blown. Open the machine casing, locate the fuse, and replace it with a new one.
 - **Control Panel Malfunction:** Check if the buttons and display on the control panel are functioning properly. If the control panel is damaged, contact professional service for replacement.

02 Shuttlecock Jamming

- **Issue:** The machine suddenly stops during operation and fails to launch shuttlecocks.
- **Possible Causes and Solutions:**
 - **Shuttlecock Quality Issue:** Deformed, wet, or low-quality shuttlecocks can cause jamming. Replace them with high-quality shuttlecocks.
 - **Blockage in the Hopper or Feed Channel:** Misaligned shuttlecocks or foreign objects in the hopper or feed channel may cause jamming. Clean the hopper and feed channel to ensure smooth shuttlecock movement.
 - **Clamping Mechanism Malfunction:** Worn or improperly positioned clamps may prevent proper shuttlecock handling. Adjust the clamp spacing or replace the clamps as needed.

03 Multiple Shuttlecock Launching

- **Issue:** The machine launches multiple shuttlecocks at once instead of following the set frequency.
- **Possible Causes and Solutions:**
 - **Improper Shuttlecock Stacking:** Shuttlecocks stacked too tightly in the hopper may cause the machine to grab multiple shuttlecocks at once. Reorganize the shuttlecocks to ensure proper spacing.
 - **Pusher Mechanism Malfunction:** Issues with the pusher rod or motor may lead to uneven shuttlecock pushing, causing multiple shuttlecocks to be launched simultaneously. Inspect the pusher rod and motor, and repair or replace them if necessary.

TROUBLESHOOTING (2)

04 Abnormal Launch Angle or Speed

- **Issue:** The launch angle or speed of the shuttlecock does not match the set values, affecting training performance.
- **Possible Causes and Solutions:**
 - **Dirty Sensor:**
Dust or dirt on the sensor may cause inaccurate detection of shuttlecock position or status, leading to abnormal angle or speed. Clean the sensor to remove dust or debris.
 - **Motor or Transmission System Malfunction:**
Worn or loose motor or transmission parts can cause instability in angle and speed. Inspect the motor and transmission system for wear or looseness, and tighten or replace as necessary.
 - **Incorrect Parameter Settings:** Verify the launch angle and speed settings on the control panel and adjust them according to actual needs.

05 Excessive Noise During Operation

- **Issue:** The machine produces abnormal noise during operation, affecting the usage environment.
- **Possible Causes and Solutions:**
 - **Worn Mechanical Components:**
Internal gears, bearings, or other mechanical parts may be excessively worn, causing noise during operation. Inspect and replace worn components as needed.
 - **Motor Issues:**
Problems with the motor's coil or rotor may cause abnormal noise. Conduct a motor inspection and repair as required.
 - **Unstable Placement:**
The machine may be placed on an uneven or unstable surface, causing vibrations and noise during operation. Ensure the machine is on a stable surface and check that all bolts are securely tightened.

06 Blockage at the Shuttlecock Outlet

- **Issue:** The shuttlecock outlet is blocked, preventing normal operation.
- **Possible Causes and Solutions:**
 - **Shuttlecock Jammed:**
A shuttlecock may be stuck at the outlet. Turn off the machine, open the outlet cover, and remove the jammed shuttlecock.
 - **Foreign Objects:**
Foreign objects may have entered the outlet, causing a blockage. Inspect the outlet and remove any foreign objects.
 - **Deformed Exit Channel:** Prolonged use may cause deformation of the exit channel, preventing smooth shuttlecock passage. Inspect the channel's shape and repair or replace it if necessary.

07 Unable to Adjust Launch Parameters

- **Issue:** The launch speed, angle, frequency, or other parameters cannot be adjusted through the control panel.
- **Possible Causes and Solutions:**
 - **Control Panel Malfunction:**
The adjustment buttons or knobs on the control panel may be damaged, preventing proper parameter adjustment. Check the control panel connections and components, and replace them if necessary.
 - **Connection Line Issues:**
Faulty connections between the control panel and the internal control board may interrupt signal transmission. Inspect the wiring for secure connections and check for damaged cables.
 - **Internal Control Board Malfunction:**
The internal control board may be damaged, unable to receive or process adjustment signals. Contact professional service personnel to inspect and repair the control board.

If troubleshooting does not resolve the issue, it is recommended to contact professional repair services to ensure the safety and proper functioning of the equipment. Regular maintenance of the badminton shuttlecock launcher can effectively prevent malfunctions and extend the machine's lifespan.

TROUBLESHOOTING (3)