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> [YHNNH Treadmill Motor Speed Controller PCB-ZYXK9-1111-V1.2 \(220V, 3-3-5pin Socket\) Instruction Manual](#)

## YHNNH PCB-ZYXK9-1111-V1.2 (3-3-5pin Socket, 220V)

# YHNNH Treadmill Motor Speed Controller Instruction Manual

Model: PCB-ZYXK9-1111-V1.2 (3-3-5pin Socket, 220V)

Brand: YHNNH

## 1. INTRODUCTION

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This manual provides essential information for the installation, operation, maintenance, and troubleshooting of the YHNNH Treadmill Motor Speed Controller Circuit Board, model PCB-ZYXK9-1111-V1.2. This component is designed to precisely manage the motor speed and other functions of compatible treadmills operating on a 220V power supply with a 3-3-5pin socket configuration. Please read this manual thoroughly before installation and use to ensure safe and correct operation.

## 2. SAFETY INFORMATION

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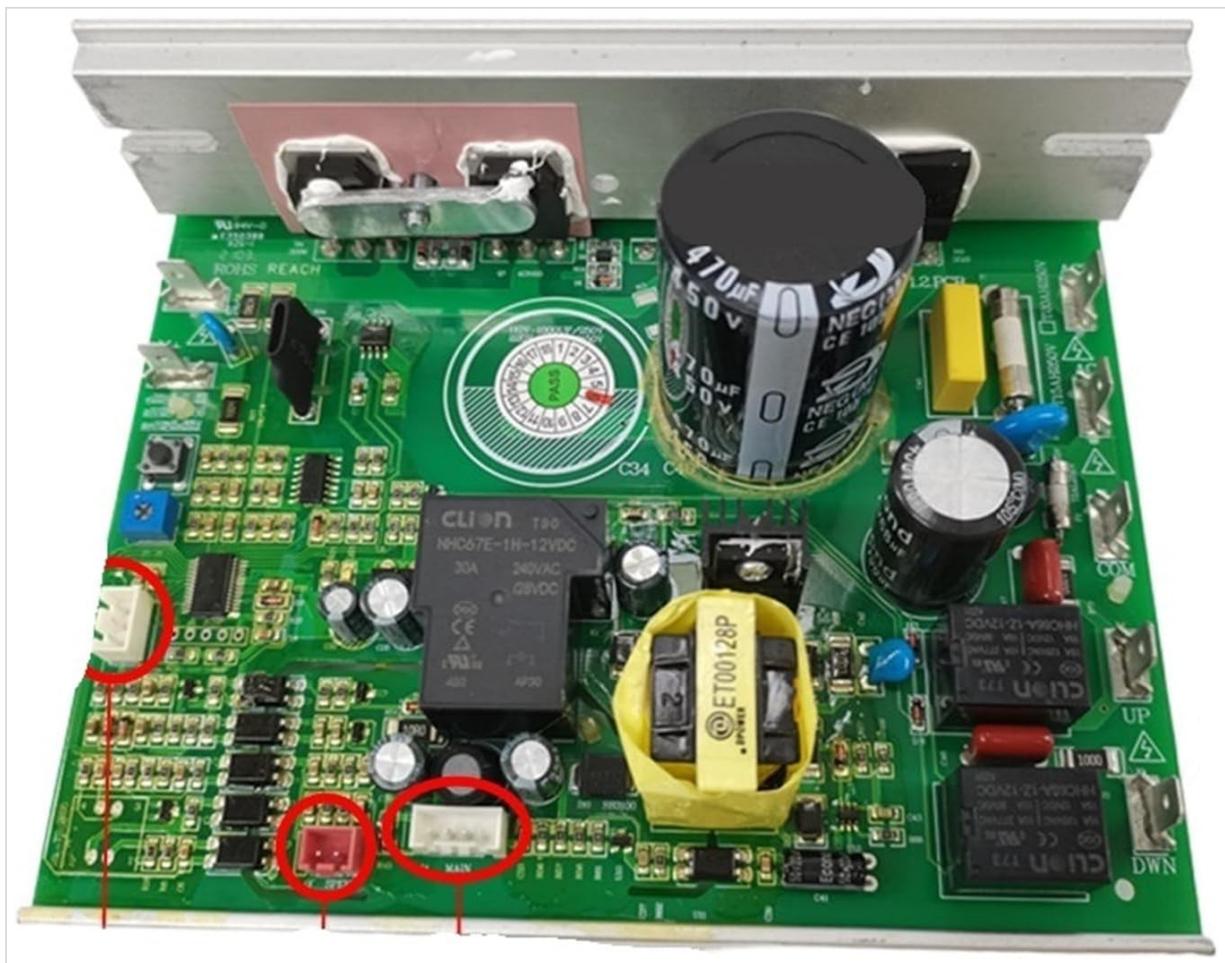
**Warning:** Electrical components can cause serious injury or death if not handled properly. Always disconnect power to the treadmill before attempting any installation, maintenance, or repair. Installation should only be performed by qualified personnel.

- Ensure the treadmill is unplugged from the power source before touching any internal components.
- Verify that the replacement board matches the specifications (voltage, socket type) of the original board.
- Avoid contact with live circuits.
- Do not operate the treadmill with damaged wiring or components.
- Keep children and pets away from the treadmill during installation and maintenance.

## 3. PRODUCT OVERVIEW

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The PCB-ZYXK9-1111-V1.2 is a motor speed controller circuit board designed for treadmill applications. It integrates various electronic components to manage motor functions, speed, and other operational parameters.



**Figure 3.1:** YHNNH Treadmill Motor Speed Controller Circuit Board. This image displays the main components of the treadmill motor speed controller circuit board. Visible elements include large capacitors, fuses (T15AH250V, T20AH250V, T2AL250V, T2AL250V), and the model identifier PCB-ZYXK9-1111-V1.2, along with the manufacturing date 2020/10/22.

### Key Features:

- **Core Operation Control:** Enables precise control over treadmill start/stop functions and speed adjustments.
- **Slope Adjustment Management:** Supports multi-level incline settings for varied exercise intensity.
- **Exercise Data Display:** Provides real-time data such as running speed, time, and distance.
- **Program Mode Selection:** Offers built-in preset programs like interval training and mountain running.

## 4. SETUP AND INSTALLATION

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This section outlines the general procedure for replacing a treadmill motor speed controller. Due to the electrical nature of this component, professional installation is highly recommended.

1. **Power Disconnection:** Unplug the treadmill from the wall outlet.
2. **Access Panel Removal:** Locate and remove the motor cover or access panel to expose the existing control board.
3. **Wiring Disconnection:** Carefully photograph or diagram all existing wiring connections to the old board. Disconnect all wires, noting their positions.
4. **Old Board Removal:** Unscrew and remove the old motor speed controller board.
5. **New Board Installation:** Place the new YHNNH PCB-ZYXK9-1111-V1.2 board into position and secure it with screws.
6. **Wiring Connection:** Reconnect all wires to the new board according to your previous documentation. Ensure all connections are secure and correct. Pay close attention to the 3-3-5pin socket connections.
7. **Panel Reinstallation:** Replace the motor cover or access panel.

- Initial Test:** Plug the treadmill back into the power outlet and perform a low-speed test run to verify functionality.

## 5. OPERATING INSTRUCTIONS

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Once installed, the motor speed controller operates in conjunction with your treadmill's console. Refer to your treadmill's user manual for specific console operation.

- Starting/Stopping:** Use the treadmill console's START/STOP buttons to initiate or cease operation. The controller manages the motor's response.
- Speed Adjustment:** Adjust speed using the console's speed controls (buttons or touch screen). The controller translates these inputs into motor speed changes.
- Incline Adjustment:** If your treadmill supports incline, use the console's incline controls. The controller manages the incline motor.
- Program Selection:** Select desired workout programs (e.g., manual, interval, mountain) from the console. The controller executes the pre-programmed speed and incline changes.
- Data Monitoring:** Monitor real-time exercise data (speed, time, distance) displayed on the treadmill console.

## 6. MAINTENANCE

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Proper maintenance ensures the longevity and reliable performance of your motor speed controller.

- Regular Inspection:** Periodically inspect the circuit board for any signs of damage, loose connections, or excessive dust accumulation.
- Cleaning:** With the power disconnected, gently clean the board using compressed air to remove dust. Avoid using liquids or abrasive cleaners.
- Connection Check:** Ensure all wire connections to the board remain tight and free from corrosion.
- Environmental Conditions:** Operate the treadmill in a clean, dry environment to prevent moisture and dust buildup on the electronic components.

## 7. TROUBLESHOOTING

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If you encounter issues with your treadmill's motor control, refer to the following common troubleshooting steps. Always ensure the treadmill is unplugged before inspecting internal components.

Problem	Possible Cause	Solution
Treadmill does not power on.	No power to the unit, tripped circuit breaker, faulty power cord, or main fuse on the board (e.g., T15AH250V, T20AH250V, T2AL250V).	Check power outlet and circuit breaker. Inspect power cord. Check and replace blown fuses on the control board if necessary (ensure correct fuse rating).
Motor does not respond or runs intermittently.	Loose motor connections, faulty motor, or issue with the control board.	Verify all motor connections are secure. Consult a professional for motor testing. If connections are good and motor is functional, the control board may require replacement.
Incorrect or erratic speed.	Speed sensor issue, calibration required, or control board malfunction.	Refer to your treadmill's manual for speed sensor inspection and calibration procedures. If issues persist, the control board may be faulty.
Incline not working.	Incline motor issue, loose connections, or control board malfunction.	Check incline motor connections. Consult a professional for incline motor testing.

If these steps do not resolve the issue, it is recommended to contact a qualified technician or the manufacturer for further assistance.

## 8. SPECIFICATIONS

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- **Model Number:** PCB-ZYXK9-1111-V1.2
- **Compatibility:** Treadmills requiring a 220V motor speed controller with a 3-3-5pin socket.
- **Manufacturer:** YHNNH
- **Item Weight:** 1.76 ounces (approximately 50 grams)
- **Package Dimensions:** 0.39 x 0.39 x 0.39 inches (approximately 1 x 1 x 1 cm)
- **ASIN:** B0FR2WM1M5
- **Date First Available:** September 14, 2025

## 9. WARRANTY AND SUPPORT

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For warranty information or technical support regarding the YHNNH Treadmill Motor Speed Controller, please refer to the documentation provided at the time of purchase or contact the seller directly. Keep your purchase receipt as proof of purchase.

Seller Contact: [Yu mei \(Seller on Amazon\)](#)