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Nayuank 4692240 4692239 4426048

Nayuank Air Heater Controller Instruction Manual

Model: 4692240, 4692239, 4426048

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the Nayuank Air Heater Controller. This unit is designed as a replacement part for specific Hitachi excavator models, ensuring optimal performance of the air conditioning system.

The Air Heater Controller is a critical component responsible for managing the heating and air conditioning functions within the excavator cabin, allowing the operator to control temperature, fan speed, and air distribution modes.

2. Product Overview and Compatibility

The Nayuank Air Heater Controller is a new condition replacement part, engineered to meet the specifications of the original equipment. It features a digital display and intuitive button controls for various climate functions.

2.1 Compatible Models

- Hitachi ZX200-3, ZX210H-3, ZX210K-3, ZX210N-3 Excavator
- Hitachi ZX225US, ZX225USR, ZX240-3, ZX400LCH-3 Excavator
- Hitachi ZX250-3, ZX250H-3, ZX250K-3, ZX250LC-3 Excavator
- Hitachi ZX270-3, ZX280LC-3, ZX280LCN-3, ZX330-3 Excavator
- Hitachi ZX350-3, ZX350H-3, ZX350K-3, ZX350LC-3 Excavator

2.2 Product Views



Figure 2.1: Front view of the Air Heater Controller, showing the 'FULL AUTO A/C' display, 'MODE', 'TEMP', 'A/C', 'AUTO', and 'OFF' buttons, along with fan speed controls.



Figure 2.2: Angled view of the controller, providing a clearer perspective of the button arrangement and digital screen.



Figure 2.3: Top-down view, illustrating the compact design and the integrated mounting brackets on the sides.



Figure 2.4: Side profile view, demonstrating the depth of the unit and its internal housing structure.



Figure 2.5: Rear view, displaying the multi-pin electrical connectors required for integration with the excavator's wiring harness.

3. Setup and Installation

Installation of the Air Heater Controller should be performed by a qualified technician. Incorrect installation can lead to damage to the unit or the excavator's electrical system.

3.1 Safety Precautions

- Ensure the excavator's power is completely off and the battery is disconnected before beginning installation.
- Wear appropriate personal protective equipment (PPE), including gloves and eye protection.
- Refer to the excavator's service manual for specific wiring diagrams and removal/installation procedures of the existing control panel.

3.2 Installation Steps (General)

1. **Access the Existing Unit:** Locate and carefully remove the existing air condition control panel from the excavator's dashboard or console. This may involve removing trim panels or fasteners.
2. **Disconnect Wiring:** Gently disconnect all electrical connectors from the back of the old control panel. Note the orientation and connection points if not clearly marked.
3. **Remove Old Unit:** Unfasten any mounting screws or clips securing the old unit.
4. **Install New Unit:** Position the Nayuank Air Heater Controller into the opening. Ensure it aligns correctly with the mounting points.

5. **Connect Wiring:** Reconnect the electrical harnesses to the corresponding ports on the new controller. Ensure all connections are secure and properly seated.
6. **Secure New Unit:** Fasten the new controller using the appropriate screws or clips.
7. **Reassemble Panels:** Reinstall any trim panels or components that were removed to access the unit.
8. **Test Functionality:** Reconnect the excavator's battery. Turn on the power and test all functions of the new air condition control panel (e.g., fan speed, temperature control, mode selection, A/C on/off).

4. Operating Instructions

The Nayuank Air Heater Controller provides intuitive control over the excavator's climate system. Familiarize yourself with the button functions for optimal use.

4.1 Basic Controls

- **POWER/OFF:** Press the 'OFF' button to turn the climate control system off.
- **AUTO:** Press the 'AUTO' button to engage the automatic climate control. The system will automatically adjust fan speed, temperature, and air distribution to maintain the set temperature.
- **A/C:** Press the 'A/C' button to turn the air conditioning compressor on or off. The indicator light will illuminate when A/C is active.
- **TEMP (▲/▼):** Use the 'TEMP' up (▲) and down (▼) arrows to adjust the desired cabin temperature.
- **FAN SPEED (▲/▼):** Use the fan speed up (▲) and down (▼) arrows to manually increase or decrease the fan blower speed.
- **MODE:** Press the 'MODE' button to cycle through various air distribution settings (e.g., face vents, floor vents, defrost).
- **RECIRCULATION/FRESH AIR:** Buttons with arrows pointing inwards or outwards typically control air recirculation (recycles cabin air) or fresh air intake.

The digital display will show the current temperature setting, fan speed, and active mode indicators.

5. Maintenance

The Air Heater Controller is designed for durability and requires minimal maintenance. Regular inspection can help ensure its longevity.

- **Cleaning:** Periodically wipe the surface of the control panel with a soft, dry cloth. Avoid using harsh chemicals or abrasive cleaners, which can damage the display or buttons.
- **Connections:** During routine excavator maintenance, visually inspect the electrical connections at the rear of the control panel to ensure they remain secure and free from corrosion.
- **Functionality Check:** Regularly test all buttons and the digital display to ensure they are responding correctly.

6. Troubleshooting

If you experience issues with your Air Heater Controller, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Controller not powering on	No power supply; Blown fuse; Loose electrical connection	Check excavator's fuse box; Verify all electrical connections are secure; Consult excavator's electrical diagram.
Buttons unresponsive	Internal fault; Software glitch; Contamination under buttons	Try restarting the excavator; Ensure buttons are clean; If issue persists, professional diagnosis may be required.

Problem	Possible Cause	Solution
Incorrect temperature display	Faulty temperature sensor; Internal calibration issue	This typically indicates an internal component issue. Professional service is recommended.
A/C or Heat not engaging	System low on refrigerant (A/C); Heater core issue; Faulty compressor/blower motor; Controller not sending signal	Check refrigerant levels (A/C); Verify other components of the climate system are functioning; Consult a professional for system diagnosis.

If troubleshooting steps do not resolve the issue, it is recommended to consult a certified technician or the product supplier for further assistance.

7. Specifications

Attribute	Detail
Item Type	Air Condition Control Panel
Condition	New
Brand	Nayuank
Part Numbers	4692240, 4692239, 4426048
Manufacturer	Nayuank
ASIN	B0B5PM8PKK
Date First Available	July 3, 2022

8. Warranty Information

This product comes with a **One Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. For warranty claims or inquiries, please contact your seller or the manufacturer directly. Additionally, a **30-day return policy** is typically offered for refund or replacement, subject to the seller's terms and conditions. Please retain your proof of purchase for all warranty and return claims.

9. Support

For technical support, installation guidance, or any questions regarding the Nayuank Air Heater Controller, please contact the seller or manufacturer through the platform where the product was purchased. When contacting support, please provide your product model number (4692240, 4692239, 4426048) and a detailed description of your issue.
Important Note: Please provide a physical address (home or office address) for any correspondence or returns, and avoid using P.O. box addresses.

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