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› SINOCMP 407915-3310 ECU Controller Instruction Manual for Sumitomo SH120-3, SH200-3, SH210-3, SH300-3 A3 Excavators

SINOCMP SH120-3 SH200-3 SH210-3 SH300-3 A3

SINOCMP 407915-3310 ECU Controller Instruction Manual

Model: SH120-3, SH200-3, SH210-3, SH300-3 A3 Excavators | **Part Number:** 407915-3310 | **Brand:** SINOCMP

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the SINOCMP 407915-3310 Electronic Control Unit (ECU). This ECU is designed for use in Sumitomo SH120-3, SH200-3, SH210-3, SH300-3 A3 Excavators. Adhering to these instructions will help ensure the longevity and optimal performance of the unit.

Safety Information: Always prioritize safety. Installation and maintenance of this component should be performed by qualified personnel. Disconnect power before any installation or service. Failure to follow safety precautions can result in injury or damage to equipment.

2. PRODUCT OVERVIEW

The SINOCMP 407915-3310 ECU is a critical electronic control panel unit for Sumitomo A3 series excavators. It functions as the central processing unit for various engine and machine operations. This unit is a direct replacement part, pre-programmed for specific Sumitomo models, but may require confirmation of vehicle and engine models for proper programming.



Figure 2.1: Underside of the ECU Controller, illustrating the robust casing and mounting points.



Figure 2.2: Product label detailing the part number (407915-3310), manufacturer information, and voltage rating.

Key Features:

- **Part Number:** 407915-3310
- **Applicable Models:** Sumitomo SH120-3, SH200-3, SH210-3, SH300-3 A3 Excavators
- **Function:** Electronic Control Unit (ECU), Controller, Control Panel
- **Voltage:** 24V DC
- **Installation:** Direct replacement, requires vehicle and engine model confirmation for programming.
- **Quality:** Products undergo professional testing and inspection to ensure reliability.

3. SETUP AND INSTALLATION

The SINOCMP 407915-3310 ECU is designed as a direct replacement part. However, professional installation is highly recommended to ensure correct integration and programming with your excavator's system.

Installation Steps:

1. **Verify Compatibility:** Before installation, confirm that your old part number matches 407915-3310 and that your excavator model (SH120-3, SH200-3, SH210-3, SH300-3 A3) is listed as compatible.
2. **Disconnect Power:** Ensure the excavator's main power supply is completely disconnected to prevent electrical hazards or damage to components.
3. **Remove Old Unit:** Carefully disconnect all wiring harnesses and mounting hardware from the existing ECU. Note the orientation and connection points for reference.
4. **Install New Unit:** Mount the SINOCMP 407915-3310 ECU in the designated location. Secure it using appropriate fasteners.
5. **Connect Wiring:** Reconnect all wiring harnesses to the new ECU, ensuring each connection is secure and correctly seated.
6. **Programming (if required):** The ECU may require programming specific to your vehicle model and engine model. This step is crucial for proper functionality and should be performed by a qualified technician using appropriate diagnostic tools.
7. **Test System:** After installation and programming, reconnect power and perform thorough system checks to confirm correct operation of the ECU and associated excavator functions.

Important: Incorrect installation or programming can lead to system malfunctions. Always consult a professional if you are unsure about any step.

4. OPERATING INSTRUCTIONS

Once properly installed and programmed, the SINOCMP 407915-3310 ECU operates automatically as part of the excavator's control system. It manages various engine and hydraulic functions based on sensor inputs and operator commands.

General Operation Guidelines:

- Ensure the excavator's electrical system provides a stable 24V DC power supply to the ECU.
- Always operate the excavator in accordance with its original manufacturer's operating procedures to prevent accidents and ensure optimal performance.
- Monitor the excavator's dashboard for any warning lights or error codes, which may indicate an issue with the ECU or other connected systems.
- Avoid exposing the ECU to extreme temperatures, excessive moisture, or direct impact, as these can compromise its functionality.

5. MAINTENANCE

The SINOCMP 407915-3310 ECU is a sealed electronic component and generally requires minimal direct maintenance. However, regular checks of its operating environment and connections are recommended.

Maintenance Recommendations:

- **Visual Inspection:** Periodically inspect the ECU and its wiring harnesses for any signs of physical damage, corrosion, or loose connections.
- **Cleanliness:** Keep the area around the ECU clean and free from dust, dirt, and debris. Use a soft, dry cloth for cleaning the exterior. Do not use harsh chemicals or abrasive materials.
- **Environmental Protection:** Ensure the ECU is protected from excessive vibration, moisture ingress, and extreme temperature fluctuations, which can degrade electronic components over time.
- **Software Updates:** If applicable, ensure any necessary software updates for the excavator's control system are performed by authorized service personnel.

6. TROUBLESHOOTING

If you experience issues with your excavator's control system after installing the SINOCMP 407915-3310 ECU, consider the following troubleshooting steps. For complex issues, always consult a professional technician.

Common Issues and Solutions:

- **Excavator Not Starting or Malfunctioning:**
 - Check all electrical connections to the ECU for looseness or corrosion.
 - Verify the 24V power supply to the ECU is stable and within specifications.
 - Confirm that the ECU was correctly programmed for your specific excavator model and engine. Incorrect programming is a common cause of malfunction.
 - Check for any diagnostic trouble codes (DTCs) displayed on the excavator's control panel. Refer to your excavator's service manual for code interpretation.
- **Intermittent Operation:**
 - Inspect wiring harnesses for signs of chafing, cuts, or damage that could cause intermittent contact.
 - Ensure the ECU is securely mounted and not subject to excessive vibration.
- **No Communication with Diagnostic Tools:**
 - Verify the diagnostic port connections and the diagnostic tool itself are functioning correctly.
 - Confirm the ECU has power.

If these steps do not resolve the issue, it is recommended to contact a certified technician or SINOCMP customer support for further assistance.

7. SPECIFICATIONS

Brand	SINOCMP
Part Number	407915-3310
Applicable Models	Sumitomo SH120-3, SH200-3, SH210-3, SH300-3 A3 Excavator

Voltage	24V DC
Material	Metal
Color	Gray
Product Dimensions	5.91 x 3.94 x 5.91 inches (15 x 10 x 15 cm)
Item Weight	5.5 pounds (2.5 Kilograms)
Batteries Required	No
UPC	610822204854

8. WARRANTY INFORMATION

The SINOCMP 407915-3310 ECU Controller comes with a manufacturer's warranty for **1 year from the date of purchase**. This warranty covers defects in materials and workmanship under normal use.

Please retain your proof of purchase for warranty claims. The warranty does not cover damage resulting from improper installation, misuse, neglect, accidents, unauthorized repairs, or modifications.

9. SUPPORT AND CONTACT

For technical assistance, warranty claims, or further inquiries regarding the SINOCMP 407915-3310 ECU Controller, please contact SINOCMP customer support.

You can find more information and contact details by visiting the official SINOCMP store or website. [Visit the SINOCMP Store on Amazon.](#)

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