

MAKO AIRTEK CAT 320V2 312 311 V1 V2

MAKO AIRTEK Fuse Box Cover Instruction Manual

Model: CAT 320V2 312 311 V1 V2

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1. INTRODUCTION

This manual provides comprehensive instructions for the proper installation, function, and care of your MAKO AIRTEK Fuse Box Cover. This cover is specifically designed as a direct replacement for Caterpillar excavator models CAT 320, 312, and 311 V1/V2, ensuring the protection of your vehicle's electrical system components. Please read this manual thoroughly before installation and use to ensure optimal performance and safety.

2. SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage to components.
- Ensure the replacement fuse box cover is the correct model for your specific Caterpillar excavator to guarantee proper fit and function.
- Do not force the cover into place. If it does not fit easily, re-verify compatibility.
- Keep the fuse box area clean and free from debris to prevent electrical shorts.
- If you are unsure about any installation steps, consult a qualified technician.

3. INSTALLATION

3.1 Pre-Installation Check

1. Verify that the new MAKO AIRTEK Fuse Box Cover matches the original cover in size and mounting points.
2. Inspect the new cover for any signs of damage from shipping.
3. Ensure the fuse box housing on the excavator is clean and free of dirt or moisture.

3.2 Installation Steps

1. **Disconnect Power:** Before beginning, ensure the excavator's main power is turned off and the battery is disconnected to prevent accidental electrical shorts.
2. **Remove Old Cover:** Carefully unclip or unscrew the existing fuse box cover from its housing. Note its orientation.
3. **Clean Area:** Clean any dirt or debris from around the fuse box housing to ensure a good seal for the new cover.
4. **Position New Cover:** Align the MAKO AIRTEK Fuse Box Cover with the fuse box housing. Ensure the mounting tabs or clips are correctly positioned.
5. **Secure Cover:** Gently press down or clip the new cover into place until it is securely fastened. It should sit flush with the housing.
6. **Reconnect Power:** Once the cover is securely installed, reconnect the vehicle's battery and restore power.
7. **Functionality Check:** Start the excavator and check that all electrical systems (lights, radio, wipers, etc.) are functioning correctly.



Figure 1: MAKO AIRTEK Fuse Box Cover showing the top lid and the bottom section with fuse labels. This image displays the MAKO AIRTEK Fuse Box Cover. The top part is the protective lid, and the bottom part shows the internal layout with labels for various fuses and their amperage ratings, such as CHAS LAMP, BOOM LAMP, RADIO, HORN, WIPER, WASHER, and others, along with their respective amperage values (e.g., 10A, 15A, 20A).

4. OPERATION

The fuse box cover serves as a protective barrier for the electrical fuses and relays within your Caterpillar excavator. It also provides a clear diagram indicating the function and amperage rating of each fuse. Refer to the diagram on the inside of the cover (as shown in Figure 1) for quick identification of specific circuits.

4.1 Fuse Identification (Based on Cover Diagram)

Circuit	Amperage	Description
CHAS LAMP	10A	Chassis Lamp circuit
BOOM LAMP	10A	Boom Lamp circuit
RADIO	10A	Radio power supply
HORN	10A	Horn circuit
DOLE LAMP	10A	Dole Lamp circuit
E/P CONT	10A	Engine/Pump Control circuit
TRAVALM	10A	Travel Alarm circuit
KEYSW	10A	Key Switch circuit
ATTCH REFUEL	10A	Attachment Refuel circuit
BACK UP	15A	Backup circuit
LICHTER	10A	Lighter/Accessory circuit
HEATER (A/C)	20A	Heater/Air Conditioning circuit
MONITOR	10A	Monitor display circuit
SOLENOID	10A	Solenoid circuit
WIPER	10A	Windshield Wiper circuit
WASHER	10A	Windshield Washer circuit
ATTCH WIPER	15A	Attachment Wiper circuit
ATTCH HAMMER	10A	Attachment Hammer circuit
SPARE	10A	Spare fuse slot
SPARE	10A	Spare fuse slot
SPARE	10A	Spare fuse slot
SPARE	20A	Spare fuse slot

Note: Always replace a blown fuse with a new fuse of the *exact same amperage rating* to prevent electrical damage or fire. Using a fuse with a higher rating can lead to serious electrical issues.

5. MAINTENANCE

5.1 Cleaning

- Periodically clean the exterior of the fuse box cover with a damp cloth to remove dirt and grime.
- Ensure no moisture enters the fuse box during cleaning.
- Avoid using harsh chemicals or abrasive cleaners that could damage the plastic or fade the labels.

5.2 Inspection

- Regularly inspect the fuse box cover for cracks, damage, or signs of wear that could compromise its protective function.
- Ensure the cover remains securely latched or screwed down to prevent water and dust ingress.
- Check the fuse diagram for legibility. If it becomes unreadable, consider replacing the cover or marking the functions clearly.

6. TROUBLESHOOTING

6.1 Common Issues

- **Cover does not fit:** Double-check the model compatibility with your excavator. Ensure no obstructions are preventing proper seating.
- **Cover is loose:** Verify that all clips or screws are properly engaged and tightened. If the cover is damaged, it may need replacement.
- **Electrical component not working:** This is likely due to a blown fuse. Refer to the fuse diagram on the cover to identify the correct fuse for the affected component. Disconnect power, remove the old fuse, and replace it with a new fuse of the identical amperage rating. If the new fuse blows immediately, there may be a short circuit in the system, requiring professional diagnosis.

7. SPECIFICATIONS

- **Product Name:** Fuse Box Cover
- **Brand:** MAKO AIRTEK
- **Model Compatibility:** Caterpillar (CAT 320, 312, 311 V1, V2)
- **Part Number:** CAT 320V2 312 311 V1 V2 (Manufacturer Part Number)
- **Material:** Durable plastic (typical for fuse box covers)
- **ASIN:** B0BNDWM372

8. WARRANTY INFORMATION

MAKO AIRTEK products are manufactured to high standards. For specific warranty details regarding this fuse box cover, please refer to the warranty documentation provided with your purchase or contact MAKO AIRTEK customer support directly. Typically, replacement parts are covered against manufacturing defects for a limited period.

9. CUSTOMER SUPPORT

For any questions, technical assistance, or support regarding your MAKO AIRTEK Fuse Box Cover, please contact our customer service team:

- **Contact Method:** Please refer to the contact information provided at the point of purchase or on the official MAKO AIRTEK website.
- **Response Time:** We aim to respond to inquiries within 1 business day (excluding public holidays).
- **Operating Hours:** Monday to Friday.

When contacting support, please have your product model number (CAT 320V2 312 311 V1 V2) and purchase details readily available.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question