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Zunate X99 LGA 2011 V3 Motherboard

Zunate X99 LGA 2011 V3 Motherboard User Manual

Model: X99 LGA 2011 V3

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Zunate X99 LGA 2011 V3 Motherboard. Designed for high-performance computing, this motherboard supports Intel Core i7 and E5 V3/V4 series processors, offering robust features for various applications.
Key features include:

- LGA 2011 V3 Socket: Compatible with 5th/6th generation Intel Core i7 and E5 V3/V4 series processors.
- 4-Channel DDR4 Memory: Supports up to 64GB DDR4 RAM at speeds up to 3200MHz.
- Ultra-Fast Storage: Features NVME M.2 and SATA M.2 connectors with PCIe 3.0 support for data transfer speeds up to 32Gbps.
- Gigabit LAN: Equipped with an RTL8111G Gigabit LAN card for stable network connectivity.
- Multiple Expansion Slots: Includes 1x PCI Express 16x, 1x PCI Express 4x, and various USB 2.0/3.0 ports.

2. Specifications

Feature	Description
Item Type	X99 LGA 2011 V3 Motherboard
Material	PCB
CPU Socket Type	LGA 2011 V3
FSB	2133/2400/2666MHZ
Memory	4 Channel Architecture, up to 64GB DDR4 3200/2933/2800/2666/2400/2133MHz
Expansion Slots	1x PCI Express 16x, 1x PCI Express 4x, 2x NVME M.2 Connectors, 1x WIFI Connector

Onboard Interfaces	1x 24pin ATX Power, 1x 8pin ATX Power, 1x USB3.0 (supports 2x USB 3.0), 1x USB2.0 (supports 2x USB 2.0), 1x F Audio, 1x FPANEL, 1x F Speaker, 3x Fan, 1x LPC Debug
I/O Interfaces	1x PS/2 port, 4x USB2.0, 2x USB3.0, 1x Gigabit RJ45 Port, 1x 3-in-1 Audio Port
Size	Approx. 24 x 19cm / 9.4 x 7.5in
Item Weight	1.59 pounds
Product Dimensions	9.45 x 7.5 x 9.4 inches

3. Setup and Installation

Before beginning installation, ensure your system is powered off and unplugged from the wall outlet. Handle the motherboard by its edges to avoid static discharge.

3.1 Package Contents

The package includes:

- 1 x Zunate X99 LGA 2011 V3 Motherboard (with inbuilt battery)

Additional components such as CPU, RAM, storage devices, and power supply are sold separately.

3.2 CPU Installation

1. Locate the LGA 2011 V3 CPU socket on the motherboard.
2. Carefully open the CPU retention mechanism.
3. Align the CPU with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket. Gently place the CPU into the socket without forcing it.
4. Close the CPU retention mechanism to secure the CPU.

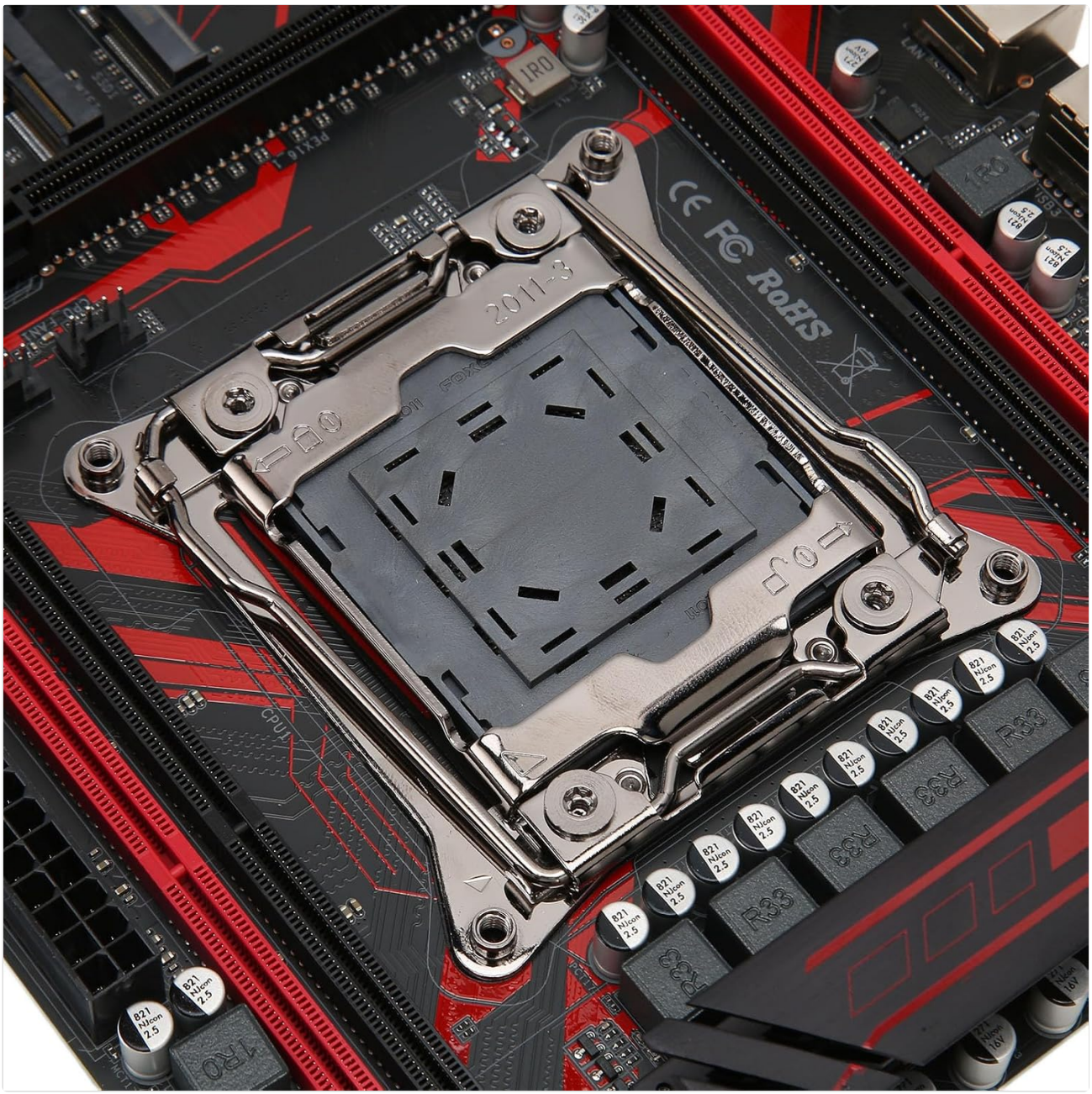


Figure 3.2.1: LGA 2011 V3 CPU Socket

This image shows a detailed view of the LGA 2011 V3 CPU socket, ready for processor installation.

3.3 RAM Installation

1. Identify the four DDR4 memory slots.
2. Open the clips at both ends of the memory slot.
3. Align the notch on the DDR4 memory module with the key in the slot.
4. Press down firmly on both ends of the memory module until the clips snap into place.

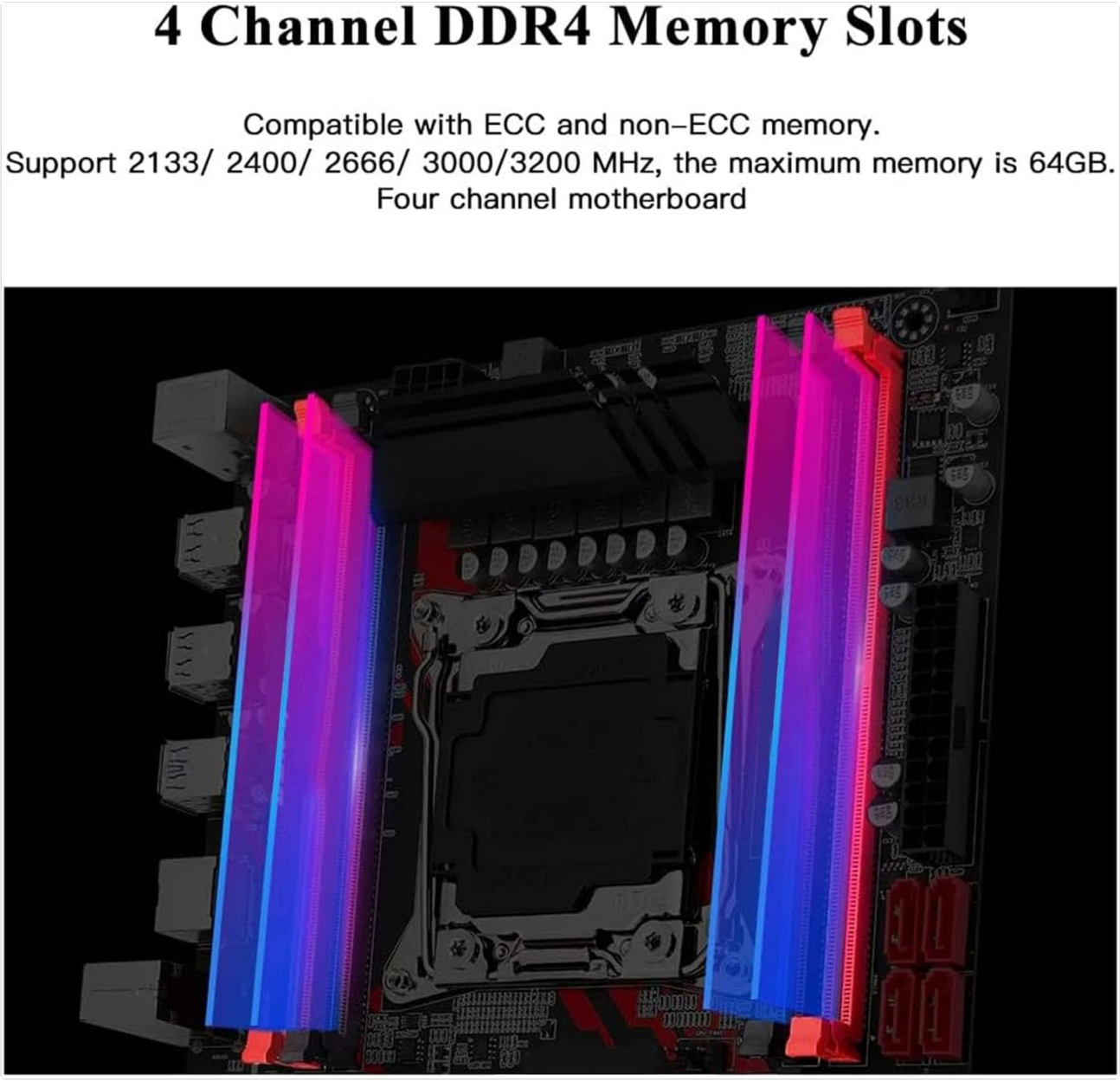


Figure 3.3.1: DDR4 Memory Slots

This image highlights the four DDR4 memory slots, indicating their position and design for memory module installation.

3.4 Storage Device Installation (M.2 / SATA)

1. For M.2 SSDs, locate the NVME M.2 or SATA M.2 connectors. Insert the M.2 SSD at an angle and secure it with the provided screw.
2. For SATA drives, connect the SATA data cable to one of the SATA 3.0 ports on the motherboard and the other end to your storage device. Connect the SATA power cable from your power supply to the drive.

3.5 Power Connections

1. Connect the 24-pin ATX power connector from your power supply to the corresponding port on the motherboard.
2. Connect the 8-pin ATX power connector (CPU power) from your power supply to the port near the CPU socket.

3.6 Front Panel and Peripheral Connections

Connect the front panel headers (power button, reset button, HDD LED, power LED, front USB, front audio)

according to the labels on the motherboard and your PC case manual. Connect other peripherals like graphics cards, network cables, and audio devices to their respective ports.

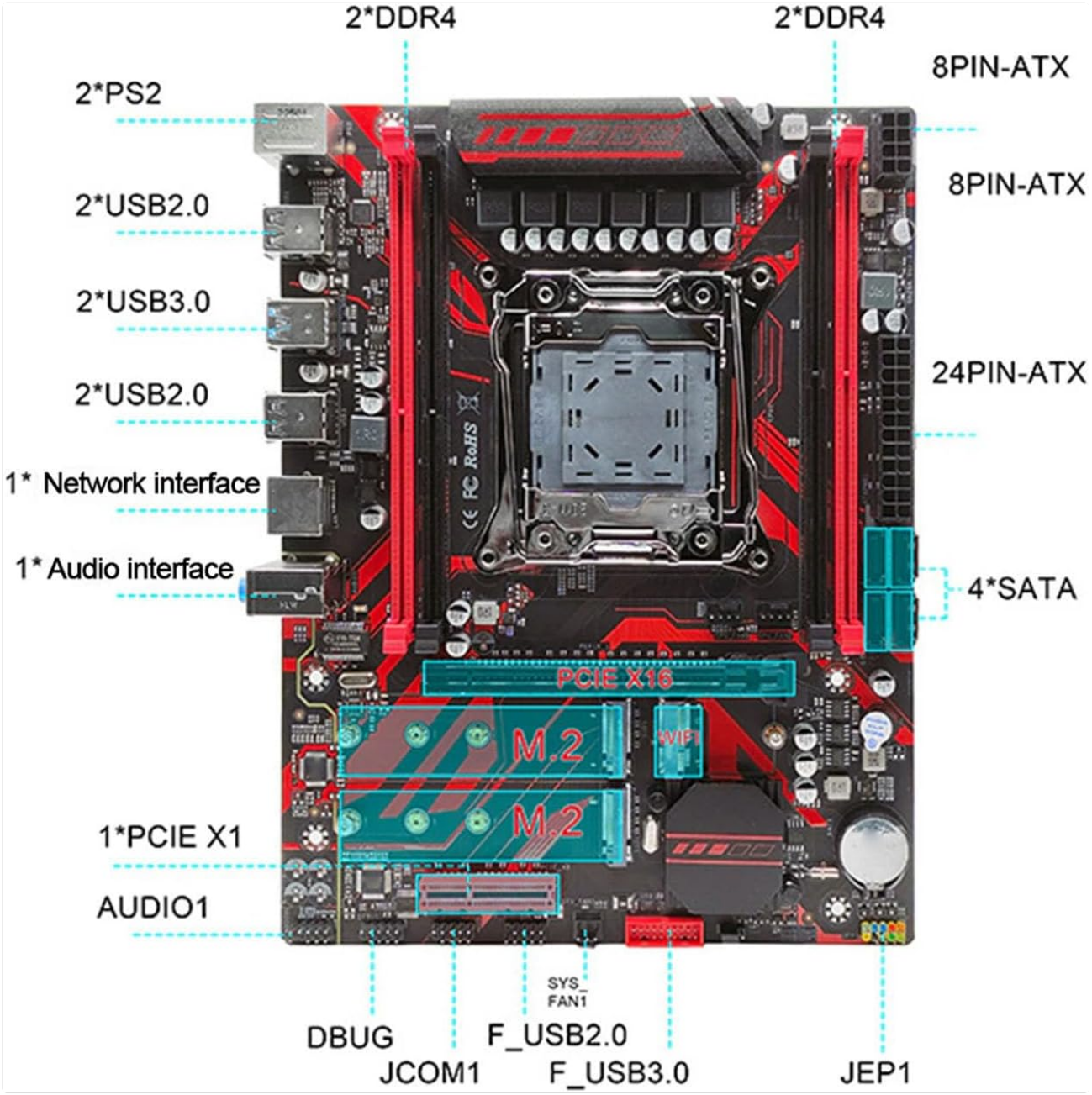


Figure 3.6.1: Motherboard Connectors Diagram

This diagram illustrates the layout of various connectors including PS/2, USB, network, audio, PCIe, M.2, and SATA ports.

4. Operating Instructions

4.1 Initial Power On

After all components are securely installed and connected, power on your system. The motherboard will perform a Power-On Self-Test (POST). If successful, you will see a display on your monitor.

4.2 BIOS/UEFI Setup

During POST, press the designated key (usually DEL or F2) to enter the BIOS/UEFI setup utility. Here you can configure system settings, boot order, and monitor hardware status. Refer to the BIOS/UEFI manual for detailed options.

4.3 Operating System Installation

Insert your operating system installation media (USB drive or DVD) and set the boot order in BIOS/UEFI to boot from it. Follow the on-screen instructions to install your preferred operating system.

4.4 Driver Installation

After installing the operating system, install the necessary drivers for the motherboard chipset, LAN, audio, and any other integrated components. These drivers are typically provided on a support CD or can be downloaded from the Zunate official website.

5. Maintenance

Proper maintenance ensures the longevity and stable performance of your motherboard.

- **Dust Removal:** Regularly clean dust from the motherboard and other components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Temperature Monitoring:** Monitor CPU and system temperatures to prevent overheating. Ensure adequate airflow within your PC case.
- **BIOS/UEFI Updates:** Periodically check for BIOS/UEFI updates from the manufacturer's website. Updates can improve compatibility, stability, and performance.
- **Component Checks:** Ensure all cables and components are securely seated. Loose connections can cause system instability.

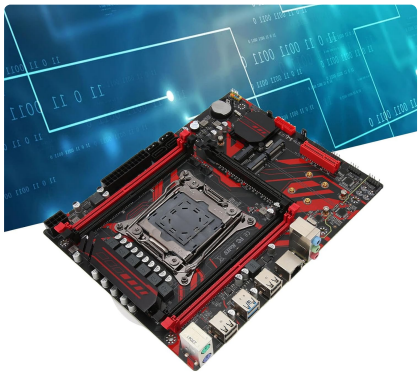
6. Troubleshooting

If you encounter issues, consider the following common troubleshooting steps:

- **No Display/No Power On:** Ensure all power connectors (24-pin ATX, 8-pin ATX) are firmly connected. Verify the CPU, RAM, and graphics card (if used) are correctly seated.
- **System Instability/Crashes:** Check RAM modules for proper installation. Test with one RAM stick at a time. Ensure CPU cooler is properly installed and thermal paste is applied.
- **Peripheral Not Detected:** Verify the peripheral is correctly connected to the appropriate port. Install or update necessary drivers.
- **BIOS Reset (CMOS Clear):** If the system is unstable or cannot boot after configuration changes, try resetting the CMOS. This usually involves removing the CMOS battery for a few minutes or using a dedicated jumper on the motherboard.
- **Component Compatibility:** Ensure all components (CPU, RAM, GPU) are compatible with the Zunate X99 LGA 2011 V3 Motherboard. Note that server memory and desktop memory cannot be used together.

7. Product Media

7.1 Product Images



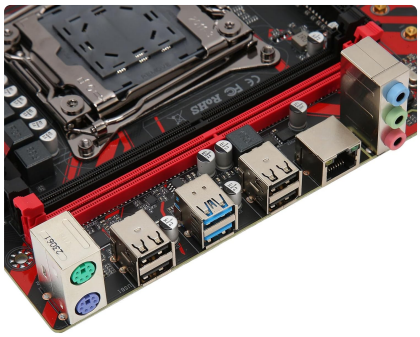
Overview of the Zunate X99 LGA 2011 V3 Motherboard, showcasing its layout and components.



The X99 motherboard supporting DDR4 memory with various frequency options.



The motherboard integrated into a system, featuring an illuminated cooling fan.



Detailed view of the rear input/output panel, showing USB, LAN, and audio

ports.

7.2 Official Product Videos

Your browser does not support the video tag.

Video demonstrating the interface and slot explanation for an E5-MRPA PRO motherboard, similar to the X99.

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A video showcasing the X99 PR9 motherboard, providing a visual overview of its features.

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Product overview video demonstrating various aspects and features of a motherboard.

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Video displaying the various interfaces of an MR9A-PRO motherboard, relevant for understanding X99 layouts.

8. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the official Zunate website or contact your retailer. Keep your purchase receipt as proof of purchase for warranty claims.

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