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› Ruitutedianzi V508 Super Mini Zed-Bull Key Transponder Programmer User Manual

Ruitutedianzi V508

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Model: V508 (500373102A2)

1. INTRODUCTION

The Ruitutedianzi V508 Super Mini Zed-Bull is an advanced key transponder programmer designed for automotive immobilizer systems. This device facilitates transponder cloning, PIN code finding, and programming transponders from EEPROM and MCU data. It is a comprehensive tool for professionals working with vehicle security and key programming.

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Zed-Bull device to ensure optimal performance and longevity.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x Zed-bull Main Unit
- 1 x PC USB Cable
- 1 x Power Adapter (US Plug, AC100-240V)
- 1 x Software CD



Image 2.1: The Zed-Bull main unit shown with its included accessories: a USB cable, a power adapter, and a software CD.

3. PRODUCT OVERVIEW

The Zed-Bull main unit features a compact design with a display screen, a numeric and alphanumeric keypad, and control buttons for navigation and operation. It is constructed from durable plastic and comes in a blue color variant.



Image 3.1: Front view of the Zed-Bull device, showing the display screen and keypad.



Image 3.2: Angled perspective of the Zed-Bull unit, highlighting its ergonomic shape.



Image 3.3: Side-by-side comparison of the front and back of the Zed-Bull device.

4. SETUP

Follow these steps to set up your Zed-Bull device:

1. **Software Installation:** Insert the provided software CD into your computer's CD-ROM drive. Follow the on-screen instructions to install the Zed-Bull PC software. This software is essential for utilizing the device's full capabilities, especially for EEPROM applications.
2. **Connect to Power:** Connect the power adapter to the Zed-bull Main Unit and plug it into a standard US electrical outlet (AC100-240V).
3. **Connect to PC:** Use the supplied PC USB cable to connect the Zed-bull Main Unit to your computer. Ensure a secure connection.
4. **Power On:** Press the power button on the Zed-bull Main Unit to turn it on. The display screen should illuminate.
5. **Driver Installation:** Your computer may automatically install necessary drivers. If prompted, follow the instructions to complete driver installation.

5. OPERATING INSTRUCTIONS

The Zed-Bull offers a range of functions for transponder programming and cloning. Below are the primary operating procedures.

5.1. Transponder Cloning

The device supports cloning for various transponder types, including 11, 12, 13, 33, 73, 4C, Crypto 40 (some), 41 (all), 42 (all), 44 (all unlocked), 45 (all), and Crypto 4D (all 60-61-62-63-64-65-67). It can write to 4C electronic keys and batteryless TPX1 transponders, and to batteryless TPX2 for electronic heads.

1. Place the original transponder into the designated slot on the Zed-Bull unit.
2. Select the 'Clone' function from the main menu.
3. Follow the on-screen prompts to read the original transponder data.
4. Once the data is read, remove the original transponder and place the blank transponder (e.g., TPX1 for 4C, TPX2 for 4D) into the slot.
5. Initiate the writing process. The device will transfer the cloned data to the new transponder.
6. Verify the cloning success on the display.

5.2. Finding PIN Code

The Zed-Bull can assist in finding PIN codes, which is crucial for various programming tasks.

1. Access the 'PIN Code Finding' feature through the device's menu.
2. Follow the specific instructions displayed on the screen, which may involve reading data from an ECU or a transponder.
3. The device will process the data and display the calculated PIN code.

5.3. Programming Transponders from EEPROM and MCU

This feature allows programming transponders directly from EEPROM and MCU data, often when no original key is available.

1. Connect the Zed-Bull to your PC and launch the Zed-Bull PC software.
2. Utilize the software's EEPROM applications, which provide ECU pictures, MCU/EEPROM locations on the board, and transponder type information.
3. Use the 'Automatic Module Finding' feature: select the EEPROM file, and the module will be recognized automatically.
4. Follow the software's guidance to prepare precoded transponders or program blank transponders based on the EEPROM/MCU data.
5. The device supports over 55 different applications for programming transponders without an existing key.

5.4. Producing Transponders for OBD Programming

For users with OBD devices (e.g., T-Code Pro) requiring special precoded transponders, the Zed-Bull can produce these

using blank transponders, offering a cost-effective alternative to purchasing expensive pre-coded units.

1. Connect the Zed-Bull to your PC and open the software.
2. Navigate to the 'Transponder Production' section.
3. Select the desired transponder type for OBD programming (e.g., 40, 41, 42, 44, 45, 73, 61, 62, 65, 46 for various car brands).
4. Place a blank transponder into the Zed-Bull unit.
5. Initiate the production process. The device will program the blank transponder with the necessary pre-coding.
6. The Zed-Bull currently supports 24 different transponder production applications.

6. IMPORTANT NOTES

- The Mini Zed-Bull **does not support ID46 chips**.
- The Mini Zed-Bull **does not support BMW vehicles**.
- Ensure the correct transponder type is used for cloning or programming to avoid errors.
- Always refer to the Zed-Bull PC software for the most up-to-date information and specific application details.

7. MAINTENANCE

To ensure the longevity and proper functioning of your Zed-Bull device, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Care:** Handle the USB cable and power adapter with care. Avoid bending or crimping the cables excessively.
- **Software Updates:** Regularly check for and install software updates for the Zed-Bull PC application to ensure compatibility and access to new features.

8. TROUBLESHOOTING

If you encounter issues with your Zed-Bull device, consider the following common troubleshooting steps:

- **Device Not Powering On:** Ensure the power adapter is securely connected to both the device and a working electrical outlet. Verify the outlet is supplying power.
- **Connection Issues with PC:** Check the USB cable connections. Try a different USB port on your computer. Reinstall the Zed-Bull PC software and drivers if necessary.
- **Transponder Reading/Writing Errors:** Ensure the transponder is correctly placed in the device's slot. Verify that the transponder type is supported by the Zed-Bull for the selected function. Clean the transponder slot if there is any debris.
- **Software Not Responding:** Close and restart the Zed-Bull PC software. Restart your computer if the issue persists.

For persistent issues, consult the software's help documentation or contact customer support.

9. SPECIFICATIONS

Feature	Specification
Model Number	V508 (500373102A2)
Product Dimensions	8.27 x 6.69 x 2.36 inches
Item Weight	15.2 ounces
Input Voltage	AC100-240V
Plug Type	US Plug
Material	Plastic
Color	Blue
Manufacturer	Ruitutedianzi

10. SAFETY INFORMATION

Please read and understand all safety instructions before using the device:

- Do not expose the device to water or excessive moisture.
- Avoid dropping the device or subjecting it to strong impacts.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.
- Use only the provided power adapter and USB cable. Using unauthorized accessories may damage the device or pose a safety risk.
- Keep the device out of reach of children.
- Operate the device in a well-ventilated area.

11. WARRANTY AND SUPPORT

Information regarding product warranty and customer support was not available in the provided product details. Please refer to the product packaging or contact the retailer/manufacturer directly for warranty terms and support options.