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› Vegena 12V Remote Control Car Battery Disconnect Switch User Manual

## Vegena BY-BG-duandiankaiguang47

# Vegena 12V Remote Control Car Battery Disconnect Switch User Manual

Model: BY-BG-duandiankaiguang47

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Vegena 12V Remote Control Car Battery Disconnect Switch. This device is designed to provide a convenient and secure way to disconnect your vehicle's battery power, offering protection against battery drain, electrical faults, and unauthorized use. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Figure 1: Overview of the Vegena Remote Control Car Battery Disconnect Switch.

## 2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to your vehicle and the product:

- Ensure the vehicle's ignition is off and the parking brake is engaged before beginning installation.
- Wear appropriate personal protective equipment, including safety glasses and gloves.
- Disconnect the negative (-) battery terminal first to prevent accidental short circuits.
- Avoid contact with battery acid. If contact occurs, flush immediately with water and seek medical attention.
- Do not attempt to disassemble or modify the switch.
- Ensure all connections are tight and secure to prevent arcing and overheating.
- This product is designed for 12V DC systems only. Do not use with other voltage systems.

### 3. PRODUCT COMPONENTS

The Vegena Remote Control Car Battery Disconnect Switch system typically includes the following main components:

- **Main Disconnect Unit:** The primary switch mechanism that connects to the battery terminals.
- **Remote Control:** A wireless remote for convenient power ON/OFF operation.
- **Battery Terminal Connectors:** Specific connectors for secure attachment to the vehicle battery.



Figure 2: Main disconnect unit with remote control, highlighting features like 'High Current 240A', 'Magnetic Latching Function', and 'Manual ON/OFF Button'.

### 4. SPECIFICATIONS

| Feature | Specification |
|---------|---------------|
|---------|---------------|

| Feature                | Specification                         |
|------------------------|---------------------------------------|
| Brand                  | Vegena                                |
| Model Number           | BY-BG-duandiankaiguang47              |
| Operating Voltage      | 12 Volts DC                           |
| Maximum Load Current   | 240 Amperes (as indicated on product) |
| Operating Mode         | Automatic / Remote Control            |
| Switch Type            | Emergency Stop, 1-way                 |
| Contact Type           | Normally Open                         |
| Connector Type         | Crimping                              |
| Mounting Type          | Surface Mount                         |
| Dimensions (L x W x H) | 20 x 20 x 20 millimeters              |
| Standby Current        | 3mA (Power Saving)                    |

## 5. INSTALLATION GUIDE

Follow these steps to install the battery disconnect switch:

- 1. Prepare the Vehicle:** Ensure the vehicle is off and the parking brake is engaged. Disconnect the negative (-) terminal of your vehicle's battery first, then the positive (+) terminal.
- 2. Identify Mounting Location:** Choose a secure and accessible location near the battery for the main disconnect unit. Ensure it is protected from excessive moisture and heat.
- 3. Connect to Battery:** Attach the main disconnect unit's terminals to your vehicle's battery terminals. Typically, the switch is installed on the positive (+) side of the battery. Ensure connections are clean, tight, and corrosion-free.
- 4. Secure Wiring:** Route any additional wiring securely, away from moving parts or heat sources.
- 5. Test Functionality:** Once installed, reconnect the battery terminals (positive first, then negative). Use the remote control to turn the power ON and OFF to verify proper operation.

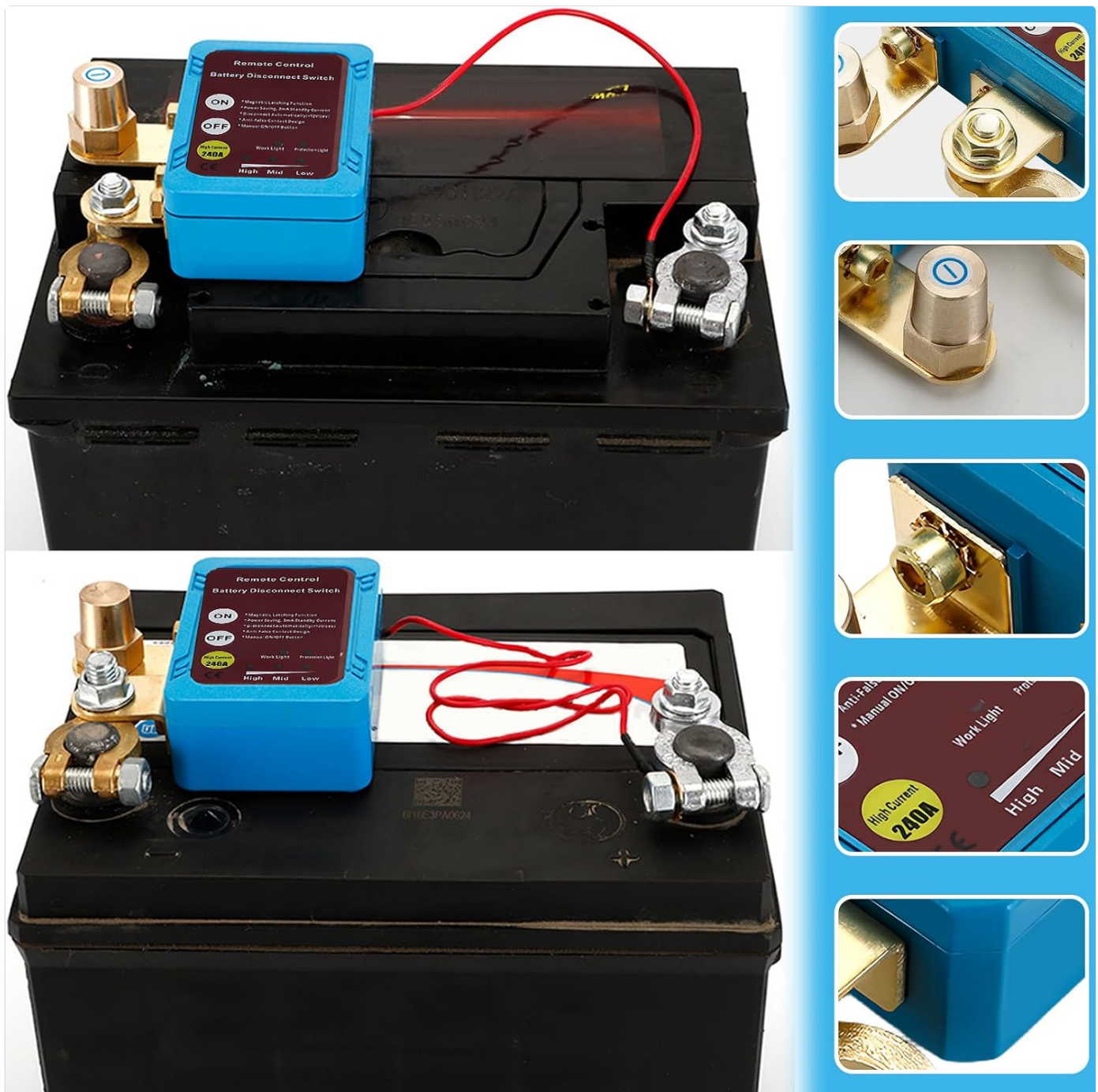


Figure 3: Example of the disconnect switch installed on a vehicle battery. Ensure all connections are secure.

## 6. OPERATING INSTRUCTIONS

The Vegena battery disconnect switch offers both remote and manual operation:

- **Remote Control Operation:** Use the provided wireless remote to turn the vehicle's power ON or OFF with a single click. This is ideal for convenience and as an anti-theft measure.
- **Manual Override:** The main disconnect unit features a manual ON/OFF button. In case the remote control is lost or not functioning, you can manually operate the switch directly on the unit.
- **Automatic Power-Off Sequence:** After turning on the main power, allow the vehicle's system to fully start. This typically takes approximately 5 to 30 seconds. Once the system is stable, you can open the door and start the ignition as usual.

# After automatic power-off

*After turning on the main power, wait for the vehicle system to start (approximately 5 to 30 seconds). Then you can open the door and start the ignition.*



**Good material**



**workmanship**



**delicate**



**practical**



Figure 4: Illustration of a vehicle after the automatic power-off sequence, ready for ignition.

## 7. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your battery disconnect switch:

- **Check Connections:** Periodically inspect all electrical connections for tightness and signs of corrosion. Clean terminals as needed.
- **Battery Health Monitoring:** The device may feature an indicator for battery health or potential issues. For example, if an 'odor value' is detected (indicating potential battery gas leakage), the work indicator light may change from blue to red and automatically turn off the power after approximately 5 minutes. This feature helps prevent long-term liquid leakage, which can lead to battery damage.
- **Remote Control Battery:** Replace the remote control battery as needed to ensure consistent operation.



Figure 5: The disconnect switch's intelligent monitoring system can detect abnormal conditions, such as an 'odor value' indicating potential battery issues, and initiate an automatic shutdown.

## 8. TROUBLESHOOTING

If you encounter issues with your Vegena battery disconnect switch, refer to the following common problems and solutions:

- **Switch Does Not Respond to Remote:**

- Check the remote control battery and replace if necessary.
- Ensure the remote is within operating range and there are no obstructions.
- Try operating the switch manually using the button on the main unit.

- **Vehicle Does Not Start After Power On:**

- Verify that the disconnect switch is in the ON position (either via remote or manual button).
- Check all battery connections for tightness and corrosion.

- Allow the vehicle's system sufficient time (5-30 seconds) to initialize after power-on before attempting to start the engine.
- Ensure the vehicle battery itself is charged and functional.
- **Automatic Shutdown Occurs Unexpectedly:**
  - Check for any warning indicators on the main unit. An 'odor value' detection can trigger an automatic shutdown.
  - Inspect the battery for signs of leakage or damage.
  - Consult a professional if the issue persists, as it may indicate a deeper electrical problem.

## 9. APPLICATION EXAMPLES

The Vegena 12V Remote Control Car Battery Disconnect Switch is suitable for a variety of 12V vehicle applications, providing enhanced battery management and security:



Figure 6: The disconnect switch can be used in cars, boats, RVs, and other 12V vehicles to prevent battery drain and enhance security.

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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