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› BOYO VTS14HD Tailgate Handle HD Backup Camera Instruction Manual for Dodge Ram 2010-2017

BOYO VISION VTS14HD

BOYO VTS14HD Tailgate Handle HD Backup Camera Instruction Manual

For Dodge Ram 2010-2017

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BOYO VTS14HD Tailgate Handle HD Backup Camera. This camera system is specifically designed for Dodge Ram models from 2010 to 2017, integrating seamlessly into the vehicle's tailgate handle for a discreet and functional rear-view solution. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INFORMATION

- Always disconnect the vehicle's battery before performing any electrical work to prevent short circuits or electrical shock.
- Ensure all wiring is properly insulated and secured to prevent damage from vibration, heat, or moisture.
- Do not obstruct the driver's view or interfere with vehicle controls during installation.
- This product is intended as an aid to safe driving and should not replace careful driving practices or the use of mirrors.
- Professional installation is recommended for optimal performance and safety.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- BOYO VTS14HD Tailgate Handle Camera Unit
- Video Cable (RCA type)
- Power Cable
- Mounting Hardware (specific items may vary)
- Instruction Manual (this document)

4. PRODUCT OVERVIEW

The BOYO VTS14HD integrates a high-definition camera into a replacement tailgate handle for your Dodge Ram. The camera features a wide-angle lens to provide a comprehensive view of the area behind your vehicle.



Image 1: BOYO VTS14HD Tailgate Handle HD Backup Camera. This image shows the integrated camera within the tailgate handle assembly.

The camera unit is designed to be weather-resistant with an IP67 rating, ensuring durability in various environmental conditions. It connects to your vehicle's reverse light circuit for power and transmits video to a compatible monitor via an RCA connection.

5. INSTALLATION

5.1 Pre-Installation Checklist

- Ensure your vehicle is a Dodge Ram model year 2010-2017.
- Gather necessary tools: screwdriver set, wire strippers, electrical tape, zip ties, multimeter (optional).
- Disconnect the negative terminal of the vehicle's battery.

5.2 Installation Steps

1. **Remove Original Tailgate Handle:** Carefully remove the existing tailgate handle assembly from your Dodge Ram. Refer to your vehicle's service manual for specific instructions on removing the tailgate panel and handle.
2. **Install New Tailgate Handle Camera:** Mount the BOYO VTS14HD tailgate handle camera unit into the designated opening. Ensure it sits flush and is securely fastened using the provided mounting hardware.
3. **Route Wiring:**
 - Carefully route the camera's video cable (RCA) and power cable through the tailgate and into the vehicle's cabin.
 - Avoid routing cables near hot engine parts, sharp edges, or moving components. Use zip ties to secure the cables along existing wiring harnesses.
4. **Connect Power:**
 - Connect the **red wire** of the camera's power cable to the positive (+) wire of your vehicle's reverse light circuit. This ensures the camera powers on automatically when the vehicle is in reverse.
 - Connect the **black wire** of the camera's power cable to a reliable chassis ground point.
5. **Connect Video:** Connect the RCA video cable from the camera to the video input of your compatible monitor or aftermarket stereo system.
6. **Test System:** Reconnect the vehicle's battery. Turn on the ignition and engage reverse gear. Verify that the camera image appears clearly on your monitor. Adjust the camera angle if necessary (if adjustable).
7. **Finalize Installation:** Once confirmed operational, secure all wiring, reassemble any removed panels, and ensure no cables are pinched or exposed.

6. OPERATION

The BOYO VTS14HD backup camera operates automatically. When your vehicle's ignition is on and the transmission is shifted into reverse gear, the camera will activate, and its video feed will be displayed on your connected monitor. The wide 130-degree lens angle provides an expansive view of the area directly behind your vehicle, assisting with parking and maneuvering.

Always check your surroundings using mirrors and direct observation in addition to the camera display. The camera is an aid and does not eliminate blind spots entirely.

7. MAINTENANCE

- **Cleaning the Lens:** Periodically clean the camera lens with a soft, damp cloth to remove dirt, dust, or water spots that may obscure the view. Avoid abrasive cleaners.
- **Inspect Wiring:** Occasionally check the visible wiring for any signs of wear, fraying, or loose connections. Secure any loose cables with zip ties.
- **Environmental Protection:** The camera is rated IP67 for water and dust resistance. However, avoid directing high-pressure water sprays directly at the camera lens during vehicle washing.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No image on monitor when in reverse.	No power to camera. Loose video cable connection. Monitor input not selected correctly. Faulty camera or monitor.	Check power connections (red wire to reverse light, black to ground). Ensure RCA video cable is securely connected at both ends. Verify your monitor is set to the correct video input. Test with another known-good camera or monitor if possible.
Poor or distorted image quality.	Dirty camera lens. Loose video connection. Electrical interference. Low light conditions.	Clean the camera lens with a soft, damp cloth. Check and secure all video cable connections. Ensure power and video cables are not routed near high-current wires. Image quality may naturally decrease in very low light.
Image is not centered or angled incorrectly.	Camera not installed flush or straight. Vehicle-specific design limitation.	Re-check the installation of the tailgate handle to ensure it is mounted correctly and straight. Some vehicle-specific designs may have fixed angles.

9. SPECIFICATIONS

Model	VTS14HD
Brand	BOYO VISION
Compatible Vehicles	Dodge Ram 2010-2017
Lens Angle	130 Degrees
IP Rating	IP67 (Water and Dust Resistant)
Resolution	600 TVL (Television Lines)
Voltage	12 Volts
Installation Type	Surface Mount (Tailgate Handle Integration)
Item Weight	1.8 Pounds (approx. 0.82 kg)
ASIN	B00K23BSTM
UPC	794504645064

10. WARRANTY AND SUPPORT

The BOYO VTS14HD Tailgate Handle HD Backup Camera comes with a **1-Year Limited Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or further assistance, please contact BOYO VISION customer service. Keep your proof of purchase for warranty validation.

Contact information for BOYO VISION can typically be found on their official website or product packaging.

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