

## Westfalia 305330300113

# Westfalia 305330300113 Electric Kit for Trailers Instruction Manual

## 1. INTRODUCTION

---

This manual provides essential instructions for the installation, operation, and maintenance of your Westfalia 305330300113 Electric Kit for Trailers. This kit is designed to provide the necessary electrical connections between your vehicle and a trailer, ensuring proper functioning of trailer lights and other electrical systems. Please read this manual thoroughly before installation and use to ensure safety and optimal performance.

## 2. SAFETY INSTRUCTIONS

---

Always prioritize safety during installation and operation. Failure to follow these instructions may result in injury, damage to the product, or damage to your vehicle.

- **Professional Installation Recommended:** Due to the complexity of vehicle electrical systems, professional installation by a qualified technician is highly recommended.
- **Disconnect Power:** Before beginning any electrical work, always disconnect the vehicle's battery to prevent electrical shock or short circuits.
- **Use Correct Tools:** Ensure you use appropriate tools for electrical work to avoid damage to components or injury.
- **Check Wiring Diagrams:** Always refer to the latest official Westfalia wiring diagrams and your vehicle's specific wiring diagrams. *Note: Some older diagrams may contain errors. Always verify with the manufacturer's most current documentation.*
- **Secure Connections:** Ensure all electrical connections are secure, insulated, and protected from moisture and abrasion.
- **Test Thoroughly:** After installation, test all trailer lighting and electrical functions before driving.

## 3. PACKAGE CONTENTS

---

Please verify that all components are present and undamaged before beginning installation. The Westfalia 305330300113 Electric Kit typically includes:

- Main wiring harness
- Control unit/module
- Socket for trailer connection (e.g., 7-pin or 13-pin)
- Mounting hardware (screws, cable ties)
- Instruction manual (this document)
- Additional cables or adapters as required for specific vehicle models



Image showing the Westfalia 305330300113 electric kit components, including wiring harnesses and connectors.

## 4. SETUP AND INSTALLATION

This section outlines the general steps for installing the electric kit. Specific details will vary based on your vehicle model. Always consult your vehicle's service manual and the detailed wiring diagrams provided by Westfalia.

### 1. Vehicle Preparation:

- Park the vehicle on a level surface and engage the parking brake.
- Disconnect the negative terminal of the vehicle's battery.
- Access the rear of the vehicle, typically behind the bumper or inside the trunk/boot area, where the trailer hitch and wiring will be installed.

### 2. Mounting the Control Unit:

- Locate a suitable, dry, and secure mounting position for the control unit, away from excessive heat or moisture.
- Secure the control unit using the provided mounting hardware.

### 3. Connecting the Wiring Harness:

- Follow the Westfalia wiring diagram precisely to connect the main harness to the vehicle's

existing electrical system. This typically involves connecting to tail lights, brake lights, turn signals, and a power source.

- Ensure all connections are made using appropriate connectors (e.g., crimp connectors, solder, or vehicle-specific plugs).
- Route the wiring safely, away from moving parts, sharp edges, and heat sources. Use cable ties to secure the harness.

#### 4. Installing the Trailer Socket:

- Mount the trailer socket (e.g., 7-pin or 13-pin) in a convenient and protected location near the trailer hitch.
- Connect the wires from the main harness to the corresponding pins on the trailer socket, following the wiring diagram. Pay close attention to pin assignments.

#### 5. Final Checks and Testing:

- Once all connections are made, double-check all wiring against the diagram.
- Reconnect the vehicle's battery.
- Connect a trailer or a trailer light tester to the newly installed socket.
- Test all functions: turn signals (left/right), brake lights, tail lights, reverse lights, and any auxiliary power.
- Ensure all lights operate correctly and without flickering or errors.

**Important Note:** A customer review indicated a potential error in an older wiring diagram. Always use the most current wiring diagram provided by Westfalia or consult their official support channels for the latest information.

## 5. OPERATING INSTRUCTIONS

---

Using your Westfalia electric kit is straightforward once installed correctly.

#### 1. Connecting a Trailer:

- Ensure both the vehicle and trailer are stationary and secure.
- Align the trailer's electrical plug with the vehicle's trailer socket.
- Push the plug firmly into the socket until it clicks or is securely seated.
- Verify the connection is tight and free from debris.

#### 2. Checking Trailer Lights:

- Before driving, always perform a visual check of all trailer lights: tail lights, brake lights, and turn signals.
- Have an assistant confirm the lights are working correctly as you operate them from the vehicle's cabin.

#### 3. Disconnecting a Trailer:

- Ensure both the vehicle and trailer are stationary and secure.
- Carefully pull the trailer's electrical plug straight out from the vehicle's socket. Avoid pulling by the wires.
- Store the vehicle's trailer socket cover (if applicable) to protect it from dirt and moisture.

## 6. MAINTENANCE

Regular, simple maintenance can extend the life of your electric kit and ensure reliable operation.

- **Inspect Connections:** Periodically check all wiring connections for corrosion, fraying, or looseness.
- **Clean Socket:** Keep the trailer socket clean and free of dirt, dust, and moisture. Use a non-conductive contact cleaner if necessary.
- **Lubricate Pins:** Apply a small amount of dielectric grease to the socket pins to prevent corrosion and ensure good contact.
- **Check for Damage:** Inspect the control unit and wiring harness for any physical damage. Replace damaged components immediately.

## 7. TROUBLESHOOTING

If you encounter issues with your electric kit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No trailer lights working	<ul style="list-style-type: none"><li>• Loose or corroded connection</li><li>• Blown fuse in vehicle or kit</li><li>• Faulty trailer plug/socket</li><li>• Incorrect wiring</li></ul>	<ul style="list-style-type: none"><li>• Check all connections and clean if necessary.</li><li>• Inspect and replace any blown fuses.</li><li>• Test the trailer plug and vehicle socket for continuity.</li><li>• Verify wiring against the diagram.</li></ul>
Specific trailer light not working (e.g., brake light)	<ul style="list-style-type: none"><li>• Burnt-out bulb on trailer</li><li>• Faulty wiring to that specific light</li><li>• Issue with vehicle's corresponding signal</li></ul>	<ul style="list-style-type: none"><li>• Replace the trailer bulb.</li><li>• Check wiring from the socket to the trailer light.</li><li>• Confirm the vehicle's light function is working independently.</li></ul>
Intermittent connection	<ul style="list-style-type: none"><li>• Loose plug in socket</li><li>• Corroded pins</li><li>• Damaged wiring</li></ul>	<ul style="list-style-type: none"><li>• Ensure plug is fully seated.</li><li>• Clean and apply dielectric grease to pins.</li><li>• Inspect wiring for damage and repair/replace.</li></ul>

If these steps do not resolve the issue, contact Westfalia customer support or a qualified automotive electrician.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	305330300113
Brand	Westfalia
Product Dimensions	20 x 19 x 7 cm
Item Weight	770 g

Feature	Detail
Material	Metal
Vehicle Service Type	Motorhome
Compatible Vehicle Type	Motorhome
Finish Type	Electrostatic paint
Global Trade Item Number (GTIN)	04250141184992

## 9. WARRANTY AND SUPPORT

Westfalia products are manufactured to high-quality standards. For warranty information, technical support, or to obtain the latest wiring diagrams, please contact Westfalia-Automotive GmbH directly through their official website or customer service channels. Keep your proof of purchase for warranty claims.

**Manufacturer:** Westfalia-Automotive GmbH

**Product in Amazon.es since:** July 2, 2013