

Westfalia 316403300113

Westfalia 13-Pin Electrical Kit Instruction Manual

FOR RENAULT ESPACE (FROM 06/2015) - MODEL 316403300113

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Westfalia 13-pin vehicle-specific electrical kit, model 316403300113. This kit is designed specifically for Renault Espace vehicles manufactured from June 2015 onwards. It ensures proper electrical connection between your vehicle and a trailer or bicycle carrier, supporting essential light functions and safety features.

The Westfalia electrical kit is engineered to meet legal requirements for towing, including light function, shunt light shutdown, and lamp failure control. It integrates with your vehicle's systems to provide optimal support and safety.

2. SAFETY INFORMATION

- **Professional Installation Recommended:** Due to the complexity of vehicle electrical systems, installation by a qualified specialist workshop is strongly recommended to ensure correct function and safety.
- **Disconnect Battery:** Always disconnect the vehicle's battery before beginning any electrical installation work to prevent short circuits or damage to electrical components.
- **Wiring Integrity:** Ensure all wiring connections are secure and properly insulated to prevent moisture ingress and corrosion.
- **Vehicle Compatibility:** This kit is vehicle-specific for Renault Espace (from 06/2015). Using it on incompatible vehicles may lead to malfunctions or damage.
- **Load Capacity:** Always adhere to the maximum towing capacity and vertical load limits specified by your vehicle manufacturer and the trailer/carrier manufacturer.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- 1 x Westfalia Vehicle-Specific 13-Pin Wiring Kit

- Installation Material (vehicle-specific)
- Instruction Manual (this document)

4. SETUP AND INSTALLATION

The installation of this electrical kit is designed to be vehicle-specific, simplifying the process. However, professional installation is recommended.

4.1 Key Installation Features

- **Connection Type:** Rear connection.
- **Number of Poles:** 13-pin connector for comprehensive trailer/carrier functionality.
- **Activation:** No coding is necessary after installation for basic functions.
- **Parking Aid Shut-off:** The kit includes functionality to automatically shut off the parking aid when a trailer or carrier is connected.
- **Continuous Plus (Optional):** Provision for continuous power supply (optional, may require additional wiring).
- **Charging Line (Optional):** Provision for a charging line to power trailer batteries (optional, may require additional wiring).

4.2 General Installation Steps (Consult Specialist Workshop)

1. **Preparation:** Park the vehicle on a level surface, engage the parking brake, and disconnect the battery.
2. **Access Vehicle Wiring:** Remove necessary trim panels and access points in the rear of the vehicle to reach the taillight wiring and other connection points.
3. **Connect Wiring Kit:** Follow the vehicle-specific instructions provided with the kit to connect the wiring harness to the designated points in the vehicle's electrical system. Ensure all connections are secure.
4. **Mount Socket:** Install the 13-pin socket in the designated location, typically near the tow bar.
5. **Route Cables:** Securely route all cables to prevent chafing or damage.
6. **Reconnect Battery:** Once all connections are made and secured, reconnect the vehicle battery.
7. **Function Test:** Perform a thorough function test with a suitable trailer or test device to ensure all lights and electrical functions operate correctly.



Image: Vehicle equipped with a Westfalia electrical kit and bike carrier, demonstrating illuminated lights.



Image: Vehicle equipped with a Westfalia electrical kit towing a trailer, showing proper light function.

5. OPERATING INSTRUCTIONS

Once the Westfalia electrical kit is correctly installed, operating it is straightforward.

5.1 Connecting a Trailer or Carrier

1. Ensure the vehicle is off and the parking brake is engaged.
2. Align the 13-pin plug of your trailer or bicycle carrier with the 13-pin socket on your vehicle.
3. Insert the plug firmly into the socket and twist clockwise to secure it.
4. Verify that all lights (tail lights, brake lights, turn signals) on the trailer/carrier are functioning correctly before driving.

5.2 Key Operational Features

- **Flashing Monitoring:** The kit monitors the flashing frequency of the turn signals. Any deviation (e.g., a bulb failure on the trailer) will be indicated, typically by a change in the flashing speed or a dashboard warning.
- **Error Message Display:** Error messages related to the trailer's electrical system may be displayed in the car's cockpit, depending on the vehicle's capabilities.
- **Comfort and Safety Functions:** The kit supports various comfort and safety functions, which may include trailer stability programs or adjustments to vehicle dynamics when towing. These functions depend on the specific vehicle model and its coding for trailer operation.
- **Parking Aid Deactivation:** The vehicle's parking aid system will automatically deactivate when a trailer or carrier is connected, preventing false alarms.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Westfalia electrical kit.

- **Inspect Connections:** Periodically check the 13-pin socket and plug for signs of corrosion, dirt, or damage. Clean with a suitable electrical contact cleaner if necessary.
- **Cable Integrity:** Ensure all visible cables are securely fastened and free from cuts, abrasions, or pinching.
- **Lubrication:** Apply a small amount of dielectric grease to the electrical contacts of the 13-pin socket to protect against moisture and corrosion.
- **Function Test:** Before each use with a trailer or carrier, perform a quick function test of all lights.

7. TROUBLESHOOTING

If you encounter issues with your electrical kit, consider the following:

- **No Lights on Trailer/Carrier:**
 - Check if the 13-pin plug is fully inserted and twisted into the socket.
 - Inspect the trailer/carrier's bulbs for failure.
 - Check the vehicle's fuses related to towing.
 - Inspect the electrical kit's wiring for loose connections or damage.
- **Incorrect Flashing Frequency:**
 - This usually indicates a bulb failure on the trailer or carrier. Replace any faulty bulbs.
- **Parking Aid Not Deactivating:**
 - Ensure the 13-pin plug is correctly and fully inserted.
 - Verify the electrical kit's connection to the vehicle's parking aid system. This may require professional

diagnosis.

- **Dashboard Error Messages:**

- Consult your vehicle's owner's manual for specific error codes.
- If the issue persists, seek assistance from a qualified specialist workshop.

8. SPECIFICATIONS

Feature	Specification
Brand	Westfalia
Model Number	316403300113
Vehicle Compatibility	Renault Espace (from 06/2015)
Number of Poles	13
Flashing Monitoring	Flashing frequency
Activation	No coding necessary
Parking Aid Shut-off	Yes
Continuous Plus	Optional
Charging Line	Optional
Connection Type	Rear
Item Weight	0.97 Kilograms (2.13 pounds)
Product Dimensions	7.48 x 7.48 x 2.95 inches

9. WARRANTY AND SUPPORT

Westfalia products are manufactured to high-quality standards. For warranty information or technical support, please refer to the official Westfalia website or contact your authorized dealer. Keep your purchase receipt as proof of purchase.

For further assistance, it is recommended to consult the specialist workshop that performed the installation.