

Westfalia 303481300113

Westfalia 13-Pin Vehicle-Specific Towing Wiring Kit

MODEL: 303481300113 FOR BMW 3 SERIES (F30/F31/F34)

INTRODUCTION

This instruction manual provides essential information for the installation, operation, and maintenance of your Westfalia 13-Pin Vehicle-Specific Towing Wiring Kit. This kit is designed for specific BMW 3 Series models, including Saloon/Touring (F30/F31) from 04/2014-06/2019 and Gran Turismo (F34) from 04/2014-09/2020. It ensures proper electrical connection between your vehicle and a trailer or bicycle carrier, supporting light, comfort, and safety functions.

The kit is EC approved, allowing use without additional registration in vehicle documents throughout Europe. Please read these instructions carefully before proceeding with installation or use.

SETUP AND INSTALLATION

The Westfalia 13-Pin Vehicle-Specific Towing Wiring Kit is engineered for direct integration with your BMW 3 Series (F30/F31/F34) electrical system. Its vehicle-specific design means that, in most cases, no coding is necessary after installation, simplifying the setup process.

Kit Components Overview

Familiarize yourself with the components included in your kit:

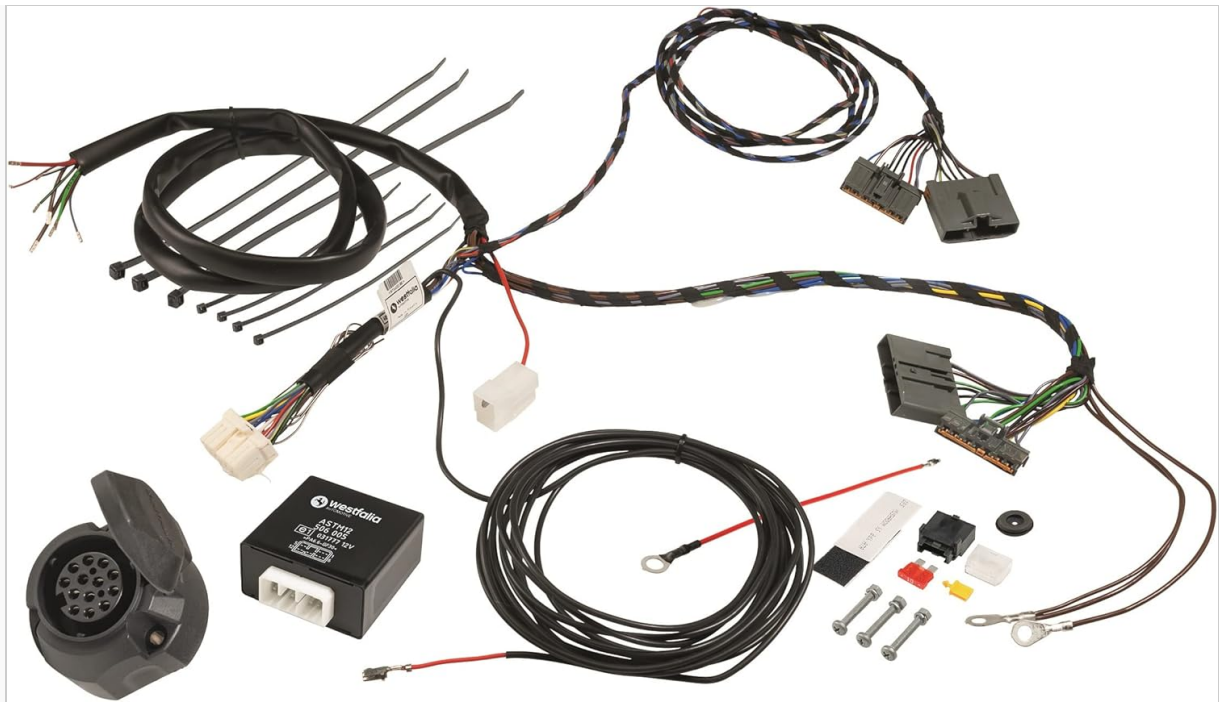


Image: All components of the Westfalia 13-Pin Vehicle-Specific Towing Wiring Kit, including wiring harnesses, control module, 13-pin socket, and various connectors and fasteners.

- Main wiring harness with vehicle-specific connectors.
- 13-pin trailer socket.
- Control module (if applicable).
- Various fasteners and connection accessories.

Installation Procedure

Due to the complexity of vehicle electrical systems, professional installation by a qualified technician is highly recommended to ensure correct functionality and to prevent damage to the vehicle or the wiring kit. Incorrect installation can lead to electrical malfunctions, error messages, or safety hazards.

1. **Preparation:** Ensure the vehicle's ignition is off and the battery is disconnected before beginning any electrical work.
2. **Access:** Gain access to the vehicle's rear light clusters and designated wiring connection points, typically located in the trunk or under the rear bumper.
3. **Connect Harness:** Connect the vehicle-specific wiring harness to the corresponding vehicle connectors. Follow the detailed wiring diagram provided with the physical product for precise connections.
4. **Mount Socket:** Securely mount the 13-pin trailer socket in the designated location, usually near the towing hitch.
5. **Route Wiring:** Route all wiring safely, away from moving parts, heat sources, and sharp edges, using cable ties as needed.
6. **Reconnect Battery:** Once all connections are secure and verified, reconnect the vehicle battery.
7. **Function Test:** Perform a comprehensive function test of all trailer lights (indicators, brake lights, tail lights, reverse light, fog light) and other trailer-related functions.

OPERATING INSTRUCTIONS

Once correctly installed, the Westfalia 13-Pin Towing Wiring Kit enables seamless electrical communication between your BMW and the connected trailer or bicycle carrier.

Connecting a Trailer or Carrier

1. Ensure the vehicle's ignition is off before connecting or disconnecting the trailer plug.
2. Align the 13-pin plug of your trailer or bicycle carrier with the vehicle's 13-pin socket.
3. Insert the plug firmly and twist clockwise to lock it in place.
4. Verify all lights and electrical functions on the trailer/carrier are working correctly before driving.

Key Functions Enabled

- **Lighting:** Full functionality for all trailer lights (tail, brake, indicator, reverse, fog).
- **Safety:** Supports trailer stabilization systems and provides error messages in the vehicle's cockpit for detected issues.
- **Comfort:** May disable parking sensors when a trailer is connected, preventing false alarms.



Image: A BMW 3 Series Touring vehicle towing a trailer at night, demonstrating the proper illumination of trailer lights enabled by the wiring kit.



Image: A BMW 3 Series Touring vehicle on a road with a bicycle carrier mounted, illustrating the use of the wiring kit for bicycle carrier lighting.



Image: A BMW SUV towing a horse trailer on a sunny day, showcasing the versatility of the towing wiring kit for various trailer types.

MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your towing wiring kit.

- **Regular Inspection:** Periodically inspect the 13-pin socket and all visible wiring for any signs of damage, corrosion, or loose connections.
- **Cleanliness:** Keep the 13-pin socket clean and free from dirt, moisture, and debris. Use a non-conductive contact cleaner if necessary.
- **Protection:** When not in use, ensure the socket cover is securely closed to protect the contacts from environmental elements.
- **Professional Check:** If you frequently tow, consider having the wiring system professionally checked during routine vehicle servicing.

TROUBLESHOOTING

If you experience issues with your towing wiring kit, consider the following troubleshooting steps:

- **No Trailer Lights:**
 - Check that the trailer plug is fully inserted and locked into the vehicle socket.
 - Inspect the trailer's own wiring and bulbs for faults.
 - Verify the vehicle's fuses related to towing are intact.
- **Error Messages in Cockpit:**
 - Ensure all connections of the wiring kit are secure.
 - If the error persists, consult a professional technician as it may indicate a deeper electrical issue or a fault within the kit.
- **Intermittent Functionality:**
 - Check for loose or corroded connections at both the vehicle and trailer ends.
 - Ensure the wiring harness is not pinched or damaged.

For complex electrical issues or if troubleshooting steps do not resolve the problem, it is recommended to seek assistance from a certified automotive electrician or the manufacturer's support.

SPECIFICATIONS

Feature	Detail
Brand	Westfalia
Model	13-pol. E-Satz (303481300113)
Compatibility	BMW 3 Series Saloon/Touring (F30/F31) (04/2014-06/2019), BMW 3 Series Gran Turismo (F34) (04/2014-09/2020)
Pin Configuration	13-pin
Item Weight	1.04 Kilograms (2.29 pounds)
Product Dimensions	7.09 x 7.09 x 2.76 inches
Material	Alloy Steel, Stainless Steel (for certain components)

Finish Type	Powder Coated (for certain components)
OEM Part Number	303481300113

WARRANTY INFORMATION

Specific warranty terms for the Westfalia 13-Pin Vehicle-Specific Towing Wiring Kit are typically provided by the manufacturer or the point of purchase. Please refer to the documentation included with your product or contact the seller/manufacturer directly for detailed warranty coverage, duration, and claim procedures.

SUPPORT

For technical assistance, installation queries, or any other support needs regarding your Westfalia towing wiring kit, please contact:

- The authorized Westfalia dealer or retailer from whom you purchased the product.
- Westfalia Automotive customer service (contact details usually available on their official website or product packaging).

When contacting support, please have your product model number (303481300113) and purchase details readily available.