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› Hopkins Towing Solutions 40244 Plug-in Simple Vehicle Wiring Kit Instruction Manual

Hopkins Towing Solutions 40244

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MODEL: 40244

Brand: Hopkins Towing Solutions

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Hopkins Towing Solutions 40244 Plug-in Simple Vehicle Wiring Kit. This kit is designed to provide a vehicle-side 4-flat towing connector, enabling your vehicle to power trailer lights efficiently and safely. The integrated power module draws power directly from the vehicle battery, ensuring consistent and adequate power supply to the trailer lighting system.

Key features include:

- **Plug-In Simple:** Designed for direct connection without requiring cutting or splicing of vehicle wires, saving installation time.
- **OEM Connectors:** Utilizes original equipment manufacturer (OEM) style connectors for a precise fit and enhanced weatherproofing.
- **Circuit Protection:** Incorporates features to protect the tow vehicle's electronics from potential wiring shorts originating from the trailer.
- **Corrosion Resistance:** Equipped with corrosion-resistant terminals to ensure long-lasting and reliable electrical connections.

2. Kit Components

Before beginning installation, verify that all components listed below are present in your kit.

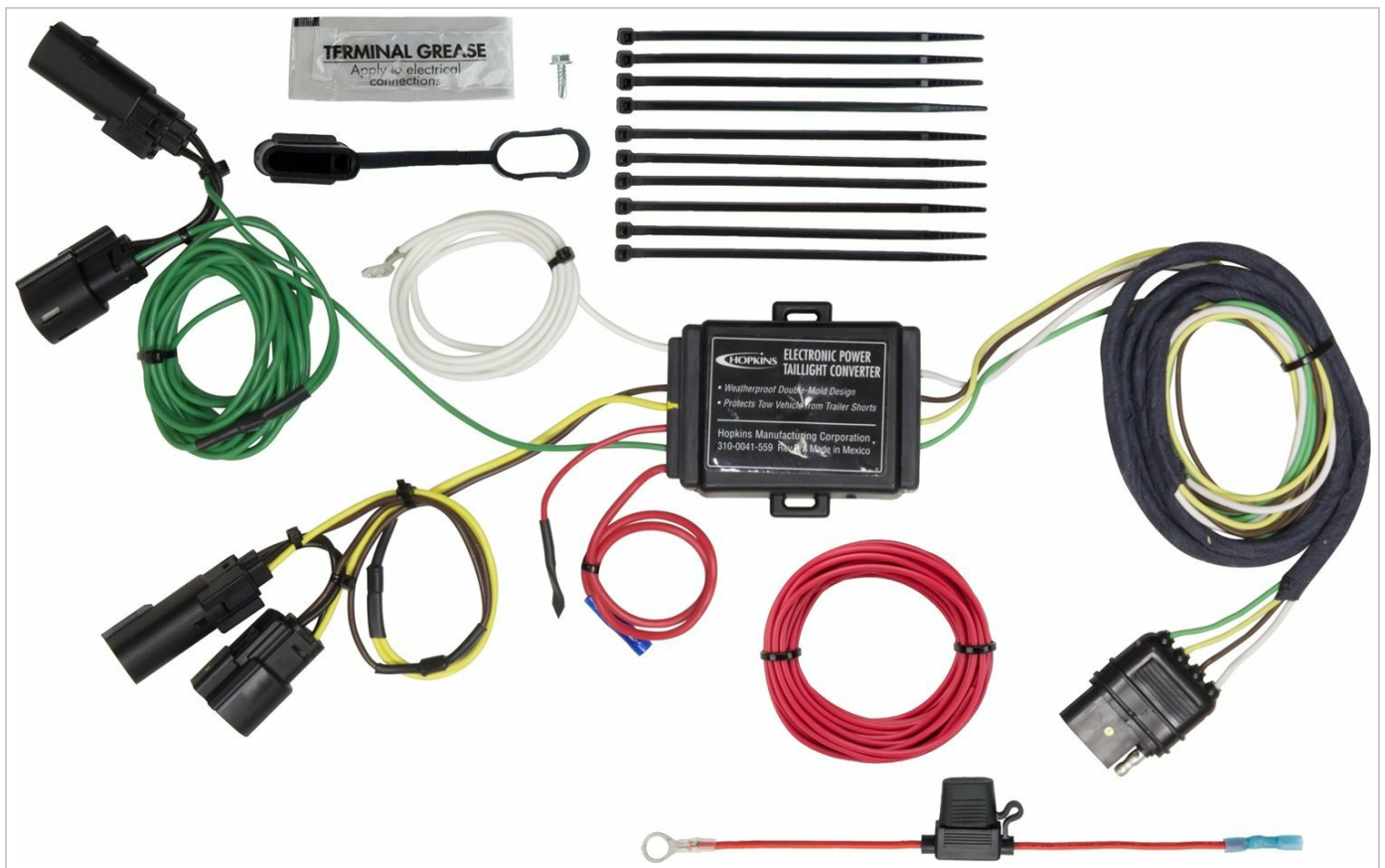


Figure 2.1: This image displays all components included in the Hopkins 40244 Plug-in Simple Vehicle Wiring Kit. Visible items are the main wiring harnesses with vehicle-specific connectors, a black electronic power taillight converter module, a packet of terminal grease, a protective cap for the 4-flat connector, a bundle of zip ties for securing wiring, and additional red and white wires for power and ground connections.

- Vehicle-specific wiring harnesses with connectors
- Electronic Power Taillight Converter Module
- 4-Flat Trailer Connector with protective cap
- Power wire (red) and Ground wire (white)
- Terminal Grease packet
- Zip Ties for securing wiring
- Mounting screw (for ground wire or module)

3. Setup and Installation

Follow these steps carefully to install your Hopkins 40244 Vehicle Wiring Kit. It is recommended to disconnect the vehicle's battery before beginning any electrical work.

1. **Locate Vehicle Taillight Connectors:** Access the taillight wiring harnesses on your vehicle. This typically involves removing taillight assemblies or accessing wiring behind the bumper. Consult your vehicle's owner's manual for specific locations.
2. **Connect Wiring Harnesses:** Identify the vehicle-specific connectors on the Hopkins wiring kit. These are designed to plug directly into your vehicle's existing taillight harness connectors. Ensure a secure and tight connection.
3. **Mount Converter Module:** Find a secure, dry location within the vehicle's rear compartment or undercarriage to mount the Electronic Power Taillight Converter Module. Use the provided mounting screw or zip ties to secure it firmly. Ensure the module is protected from excessive heat, moisture, and moving parts.
4. **Connect Ground Wire:** Attach the white ground wire from the converter module to a clean, unpainted metal surface on the vehicle chassis. Use the provided self-tapping screw to create a secure ground connection. Ensure the

connection point is free of rust or paint for optimal conductivity.

5. **Connect Power Wire:** Route the red power wire from the converter module to the vehicle's battery. This wire must be connected to the positive (+) terminal of the battery. It is crucial to install the inline fuse holder (if not pre-installed) as close to the battery as possible to protect the circuit. Ensure the wire is routed safely away from hot or moving parts and secured with zip ties.
6. **Route 4-Flat Connector:** Route the 4-flat trailer connector to the exterior of the vehicle, near the trailer hitch. Ensure it is accessible for connecting to a trailer but also secured to prevent dragging or damage. Use the provided protective cap to cover the connector when not in use.
7. **Apply Terminal Grease:** Apply a small amount of the provided terminal grease to all electrical connections, especially the 4-flat connector, to prevent corrosion and ensure reliable contact.
8. **Test System:** Reconnect the vehicle's battery. Connect a test light or a trailer to the 4-flat connector and verify that all trailer lights (turn signals, brake lights, running lights) function correctly.

4. Operating Instructions

Once the Hopkins 40244 Vehicle Wiring Kit is installed, operating it is straightforward.

1. **Connect Trailer:** Align the 4-flat connector from your vehicle with the corresponding 4-flat connector on your trailer. Push them firmly together until they are fully seated.
2. **Secure Connection:** Ensure the connection is secure and will not accidentally disconnect during towing.
3. **Verify Lights:** Before each towing trip, perform a quick check of all trailer lights:
 - Running lights (headlights on)
 - Left turn signal
 - Right turn signal
 - Brake lights (foot on brake pedal)
4. **Disconnect Trailer:** When finished towing, firmly grasp both connectors and pull them apart. Always use the protective cap on the vehicle's 4-flat connector when not in use to prevent corrosion and damage.

5. Maintenance

Regular maintenance ensures the longevity and reliable performance of your wiring kit.

- **Inspect Connections:** Periodically inspect all electrical connections, especially the 4-flat connector, for signs of corrosion, damage, or loose connections.
- **Apply Terminal Grease:** Reapply dielectric grease or terminal grease to the 4-flat connector pins and other exposed electrical connections annually, or more frequently if exposed to harsh weather conditions. This helps prevent corrosion.
- **Check Wiring:** Ensure all wiring is securely fastened and not chafing against sharp edges or hot components. Replace any damaged zip ties.
- **Converter Module:** Ensure the converter module remains securely mounted and free from moisture or physical damage.

6. Troubleshooting

If you experience issues with your trailer lights, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No trailer lights function.	<ul style="list-style-type: none"> Blown fuse in vehicle or kit. Poor ground connection. Disconnected power wire. Faulty converter module. 	<ul style="list-style-type: none"> Check and replace fuses (vehicle and kit's inline fuse). Verify ground wire connection is secure and on a clean metal surface. Ensure power wire is securely connected to the battery. Test converter module (may require professional diagnosis).
One or more trailer lights do not function.	<ul style="list-style-type: none"> Faulty trailer bulb. Corroded or loose connection at the 4-flat connector. Damaged wiring on trailer or vehicle. 	<ul style="list-style-type: none"> Check and replace trailer bulbs. Clean and apply terminal grease to 4-flat connector pins. Ensure a tight connection. Inspect wiring for cuts or pinches.
Trailer lights flicker or are intermittent.	<ul style="list-style-type: none"> Loose or corroded connections. Poor ground connection. 	<ul style="list-style-type: none"> Inspect and secure all connections, especially the 4-flat and ground. Clean any corrosion. Ensure ground wire is firmly attached to a clean, unpainted metal surface.

7. Specifications

Model Number	40244
Brand	Hopkins Towing Solutions
Item Weight	15.1 ounces
Product Dimensions	2.88 x 5.88 x 6.88 inches
Manufacturer	Hopkins Towing Solutions

8. Warranty Information

Specific warranty details for the Hopkins Towing Solutions 40244 Plug-in Simple Vehicle Wiring Kit are typically provided by the manufacturer at the time of purchase or included with the product packaging. Please refer to any documentation supplied with your kit for comprehensive warranty terms and conditions.

9. Support

For technical assistance, installation questions, or troubleshooting beyond the scope of this manual, please contact Hopkins Towing Solutions customer support. Refer to the product packaging or the manufacturer's official website for current contact information.



