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Walbro 94-615

Walbro 94-615 Wiring Harness Instruction Manual

Model: 94-615 | Brand: Walbro

1. Product Overview

The Walbro 94-615 Wiring Harness is a universal wire harness assembly designed for automotive electrical applications, commonly used with fuel pumps. This harness provides a reliable electrical connection for various components, ensuring proper power delivery and signal transmission within the vehicle's electrical system.

It is manufactured in the United States and is known for its compatibility and ease of integration into existing systems.

2. Safety Information

Always prioritize safety when working with automotive electrical systems. Failure to follow safety guidelines can result in personal injury, damage to the vehicle, or fire.

- **Disconnect Power:** Before beginning any installation or maintenance, ensure the vehicle's battery is disconnected to prevent electrical shock or short circuits.
- **Insulation:** Always use properly insulated tools.
- **Wire Protection:** Protect all wiring from sharp edges, heat sources, and moving parts. Use appropriate conduits or loom where necessary.
- **Professional Installation:** If you are unsure about any step of the installation process, consult a qualified automotive technician.
- **Fire Hazard:** When working near fuel systems, ensure no open flames, sparks, or hot tools are present.

3. Product Components

The Walbro 94-615 Wiring Harness consists of a durable plastic connector and two insulated wires (typically red and black) designed to provide power and ground connections. The wires are pre-stripped at one end for easy connection.

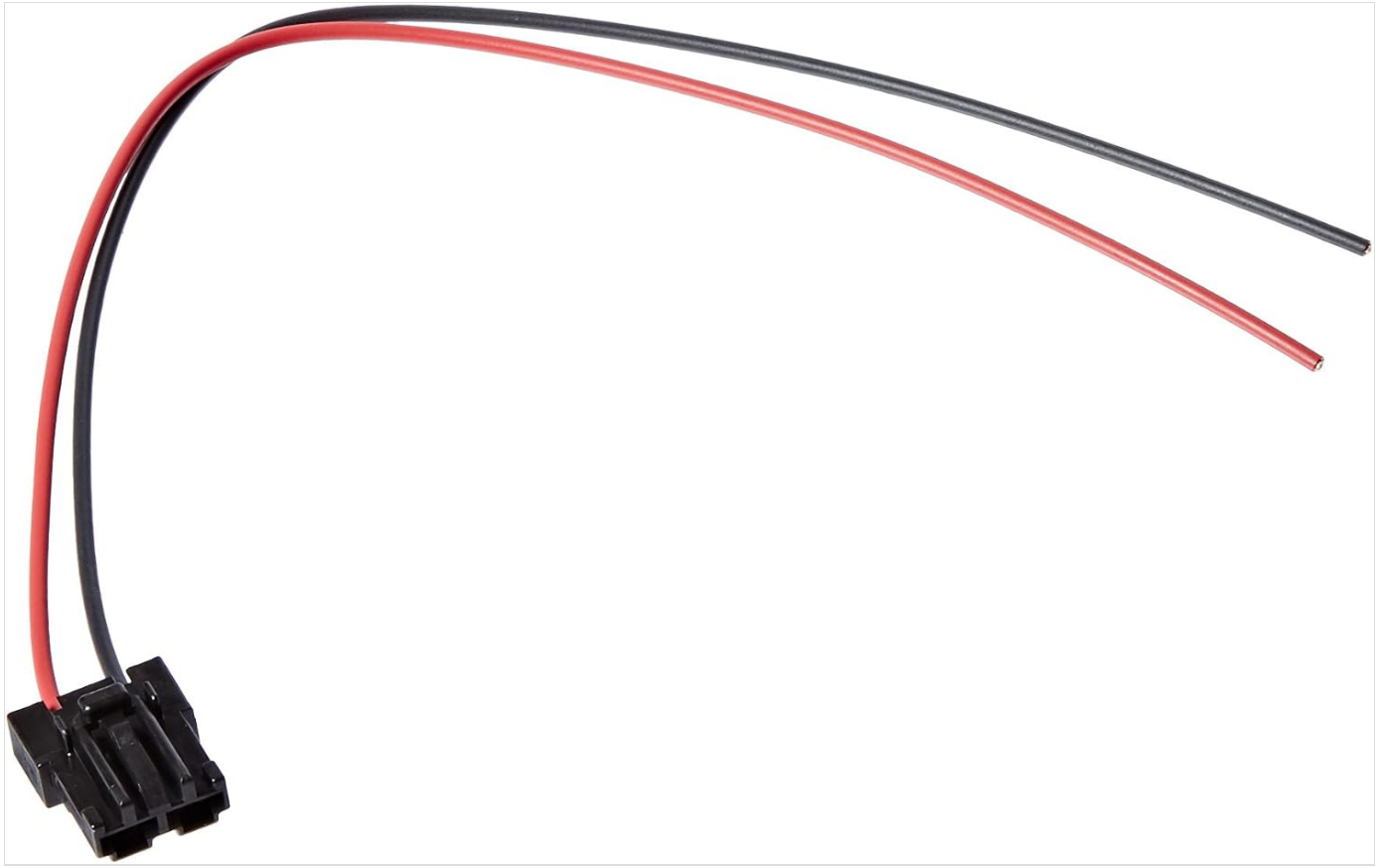


Image 1: Walbro 94-615 Wiring Harness, illustrating the connector and wire leads.



Image 2: Walbro 94-615 Wiring Harness, coiled to highlight the connector and wire ends.

For proper installation, additional components such as butt connectors (e.g., Walbro 187-113 Butt Connectors) may be required to splice the harness into your vehicle's existing wiring.

4. Setup and Installation

This wiring harness is typically used to replace a damaged connector or to adapt a new component, such as a fuel pump, to an existing electrical system. The installation process involves cutting and splicing wires.

Installation Steps:

1. **Preparation:** Disconnect the vehicle's battery. Identify the wires on your existing component or vehicle harness that need to be connected to the Walbro 94-615 harness.

2. **Cutting:** Carefully cut the old connector or wires as needed, ensuring enough length remains for a secure splice.
3. **Stripping Wires:** Strip approximately 1/2 inch of insulation from the ends of both the Walbro harness wires and the vehicle's wires.
4. **Connecting Wires:** Use appropriate butt connectors (e.g., Walbro 187-113) to join the wires. Ensure polarity is correct (e.g., red to positive, black to negative, if applicable). For a more robust connection, soldering the wires before using heat-shrink tubing is recommended.
5. **Insulation:** Apply heat-shrink tubing or electrical tape over the butt connectors to insulate and protect the splices from moisture and corrosion.
6. **Secure Harness:** Route the new harness securely, away from moving parts, sharp edges, and excessive heat. Use zip ties or clips to fasten it in place.
7. **Testing:** Reconnect the vehicle's battery and test the functionality of the connected component.

Note on Wire Gauge: *The Walbro 94-615 harness typically features 18-gauge (18GA) conductors, which have an ampacity rating of approximately 14 Amperes (at 90°C). Ensure this wire gauge is sufficient for the current draw of the component it will power. For high-performance applications or components with higher current requirements, verify compatibility or consider alternative wiring solutions if necessary.*

5. Operating Principles

The Walbro 94-615 Wiring Harness functions as a direct electrical conduit. Once properly installed, it facilitates the flow of electrical current and signals between the vehicle's electrical system and the connected component (e.g., a fuel pump). It does not have any active operational controls or settings; its 'operation' is passive, providing a stable and secure electrical connection.

6. Maintenance

The Walbro 94-615 Wiring Harness requires minimal maintenance. Regular inspection can help ensure its longevity and reliable performance.

- **Visual Inspection:** Periodically inspect the harness for any signs of wear, fraying, cuts, or damage to the insulation.
- **Connection Integrity:** Check that all connections (especially splices) remain secure and free from corrosion. If corrosion is present, disconnect power, clean the connections, and re-insulate as needed.
- **Routing:** Ensure the harness remains properly routed and secured, preventing it from rubbing against other components or being exposed to excessive heat.

7. Troubleshooting

If the component connected to the Walbro 94-615 Wiring Harness is not functioning correctly, consider the following troubleshooting steps:

- **No Power to Component:**
  - Verify the vehicle's battery is fully charged and properly connected.
  - Check all fuses related to the circuit.
  - Inspect the harness connections for looseness, corrosion, or improper splicing. Ensure good contact at all points.
  - Use a multimeter to check for continuity across the harness wires and for proper voltage at the connector.
- **Intermittent Operation:**
  - This often indicates a loose or corroded connection. Re-inspect all splices and the connector for secure

fitment.
    - Check for any signs of wire fatigue or internal breaks, especially where the harness might be subject to vibration or movement.
- **Overheating Wires/Connector:**
    - This suggests excessive current draw or an inadequate wire gauge for the application. Ensure the connected component's current draw does not exceed the harness's ampacity (14A for 18GA wire).
    - Check for short circuits in the connected component or wiring.

If troubleshooting steps do not resolve the issue, professional diagnosis by a qualified automotive technician is recommended.

8. Specifications

Feature	Specification
Part Number	94-615
Brand	Walbro
Material	Copper (conductors)
Connector Type	Butt (for connection to existing wires)
Wire Gauge	18 AWG (American Wire Gauge)
Ampacity (18 AWG)	Approx. 14 Amperes (at 90°C)
Item Weight	0.704 ounces
Package Dimensions	6.0 L x 2.0 H x 2.0 W (inches)
Country of Origin	United States

9. Warranty and Support

For specific warranty information regarding the Walbro 94-615 Wiring Harness, please refer to the documentation provided with your purchase or contact Walbro directly through their official website or customer service channels. Walbro is committed to providing quality automotive components.

For technical assistance or product inquiries, please visit the official Walbro website or contact their customer support. Ensure you have your product model number (94-615) available when seeking support.

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