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Model: B12G

INTRODUCTION

This manual provides detailed instructions for the proper installation, function, and maintenance of the Standard Motor Products B12G Ground Strap. This component is designed to ensure a reliable electrical ground connection in various automotive applications.

PRODUCT OVERVIEW

The Standard Motor Products B12G is an aftermarket replacement ground strap. It is constructed from 4-gauge tinned copper, providing excellent conductivity and corrosion resistance. The strap measures 12 inches in length and features lug holes with a diameter of 0.468 inches. It is suitable for specific vehicle applications, including 1977-1978 Honda Accord, 2011-2012 Kia Sorento, 1974 Volkswagen Dasher, 1988-1991 Volkswagen Fox vehicles, and other universal applications where its specifications are met.



Image 1: The Standard Motor Products B12G Ground Strap, showing its braided tinned copper construction and terminal lugs.

SETUP AND INSTALLATION

1. **Safety First:** Before beginning any electrical work on a vehicle, disconnect the negative terminal of the battery to prevent electrical shorts or injury.
2. **Identify Connection Points:** Determine the appropriate locations for the ground strap connection. Common applications include grounding the engine block to the chassis, or the battery to the chassis. Ensure the surfaces are clean, free of rust, paint, or grease to establish good electrical contact.
3. **Position the Strap:** Place one end of the ground strap against the first connection point. Ensure the lug hole aligns with a suitable bolt or stud.
4. **Secure First End:** Use a bolt, nut, and washer (not included) to securely fasten the first lug of the ground strap. Tighten the fastener to the manufacturer's recommended torque specifications for the specific vehicle or component.
5. **Route the Strap:** Route the ground strap to the second connection point, ensuring it does not interfere with moving parts, hot components, or sharp edges. The strap should have a slight slack to accommodate engine movement, but not be excessively loose.

6. **Secure Second End:** Fasten the second lug of the ground strap to the second connection point using appropriate hardware. Tighten securely.
7. **Verify Connections:** Double-check both connections to ensure they are tight and that the strap is not twisted or under excessive tension.
8. **Reconnect Battery:** Once installation is complete and verified, reconnect the negative battery terminal.



Image 2: The B12G ground strap bent into a V-shape, illustrating its flexibility for installation.

FUNCTION AND OPERATION

A ground strap provides a low-resistance path for electrical current to return to the vehicle's battery. Proper grounding is critical for the reliable operation of all electrical components, including the starter, alternator, ignition system, and various sensors. The B12G ground strap ensures a robust electrical connection, preventing issues such as poor starting, flickering

lights, or erratic electronic component behavior caused by inadequate grounding. Once installed correctly, the ground strap operates passively, continuously providing the necessary electrical return path.

MAINTENANCE

- **Regular Inspection:** Periodically inspect the ground strap for signs of wear, corrosion, fraying, or damage. Check the connection points for looseness or rust buildup.
- **Clean Connections:** If corrosion is present at the connection points, disconnect the battery, remove the strap, and clean the surfaces with a wire brush or sandpaper until bright metal is exposed. Reinstall the strap and apply a thin layer of dielectric grease to protect against future corrosion.
- **Tighten Fasteners:** Ensure all fasteners securing the ground strap are tight. Loose connections can lead to increased resistance and electrical issues.
- **Replace if Damaged:** If the ground strap itself shows significant signs of damage, such as severe fraying, breakage, or excessive corrosion that cannot be cleaned, it should be replaced immediately to maintain proper electrical system function.



Image 3: Close-up view of the terminal lugs on the B12G ground strap, showing the stamped model number for identification.

TROUBLESHOOTING COMMON ISSUES

Many electrical problems in a vehicle can be traced back to a poor ground connection. If you experience any of the following symptoms, inspect your ground strap:

- **Dim or Flickering Lights:** This can indicate an insufficient ground path, causing voltage drops.
- **Slow or No Engine Cranking:** A poor engine ground can prevent the starter motor from receiving adequate current.
- **Erratic Electronic Component Behavior:** Modern vehicles rely heavily on stable electrical grounds for proper sensor and ECU operation.
- **Corrosion at Battery Terminals or Ground Points:** Visible corrosion indicates a potential issue with electrical conductivity and may require cleaning or replacement of components.
- **Overheating Electrical Components:** High resistance in a ground path can cause components to draw excessive current and overheat.

If any of these issues occur, first check the ground strap connections for tightness and corrosion. If the strap itself is damaged, replace it.

SPECIFICATIONS

Feature	Detail
Model Number	B12G
Brand	Standard Motor Products
Gauge	4-gauge
Material	Tinned Copper
Length	12 inches
Lug Hole Diameter	0.468 inches
Item Weight	3.68 ounces
Product Dimensions	10 x 2.7 x 1.5 inches (Package)
Country of Origin	United States

WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your Standard Motor Products B12G Ground Strap, please refer to the official Standard Motor Products website or contact their customer service directly. Keep your purchase receipt for warranty claims.

Manufacturer: Standard Motor Products

Website: [www.standardbrand.com](#) (Example link, actual link may vary)

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