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› Sherco-Auto 12" Inch 4 Gauge Braided Bonding Strap User Manual

Sherco-Auto DEK04354

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Model: DEK04354

1. PRODUCT OVERVIEW



Image of the Sherco-Auto 12" Inch 4 Gauge Braided Bonding Strap, showing its braided copper construction and tin-plated terminals with 3/8" stud holes. This strap is designed for robust electrical bonding and grounding applications.

The Sherco-Auto 12" Inch 4 Gauge Braided Bonding Strap is a high-quality electrical component designed for reliable grounding and bonding in various applications. It features tin-plated copper construction for maximum protection against corrosion, making it suitable for farm, commercial vehicles, and off-road environments. This strap ensures a secure electrical connection, enhancing safety and performance.

Key Features:

- 12" Inch 4 Gauge Braided Bonding Strap
- Fits up to 3/8" Stud
- Tin Plated Copper construction
- Maximum Protection Against corrosion for farm, commercial vehicles, and off-road applications.

2. SPECIFICATIONS

Attribute	Value
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Attribute	Value
Size	12" Inch
Color	4 Gauge Bonding
Brand	Sherco-Auto
Vehicle Service Type	ATV, Truck, Van
Fastener Material	Tin Plated Copper
Number of Pieces	1
Product Dimensions	12"L x 0.38"W
Manufacturer	Sherco-Auto
Unit Count	1.0 Feet
Part Number	DEK04354
Item Weight	8.8 ounces

3. SETUP INSTRUCTIONS

Before Installation:

- Ensure the power source is disconnected before beginning any electrical work.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves.
- Identify the two points requiring electrical bonding or grounding.
- Verify that the stud size at the connection points is compatible with the 3/8" holes on the bonding strap.
- Clean the connection surfaces thoroughly to remove any dirt, rust, paint, or grease. A clean metal-to-metal contact is crucial for effective bonding.

Installation Steps:

1. Position one end of the braided bonding strap over the first connection stud.
2. Secure the strap using a washer and nut, ensuring a snug fit. Do not overtighten, as this can damage the strap or the stud.
3. Extend the strap to the second connection point, ensuring it is not stretched or kinked.
4. Place the other end of the strap over the second connection stud.
5. Secure this end with a washer and nut, tightening it firmly to establish good electrical contact.
6. Visually inspect both connections to confirm they are secure and that the strap is not under undue tension or rubbing against other components.

4. OPERATING PRINCIPLES

Function:

The Sherco-Auto Braided Bonding Strap serves to create a low-resistance electrical path between two metallic components. This is essential for:

- **Grounding:** Providing a safe path for fault currents to dissipate, preventing electrical shock and equipment damage.
- **Bonding:** Ensuring that all metallic parts are at the same electrical potential, which prevents static electricity buildup and reduces the risk of sparks in hazardous environments.

Best Practices:

- Always use the correct gauge strap for the intended current load and application.
- Ensure all connections are clean and free of corrosion for optimal conductivity.
- Avoid sharp bends or kinks in the strap, which can reduce its effectiveness and lifespan.
- Regularly check the strap and its connections for signs of wear or damage.

5. MAINTENANCE

Regular Inspection:

To ensure the longevity and effectiveness of your Sherco-Auto Braided Bonding Strap, periodic inspection is recommended, especially in harsh environments.

- **Visual Check:** Look for any signs of fraying, cuts, or damage to the braided copper.
- **Corrosion:** Inspect the tin-plated terminals and the connection points for any signs of rust or corrosion. While tin plating offers excellent protection, extreme conditions can still lead to degradation over time.
- **Tightness:** Gently check the tightness of the nuts securing the strap. Vibrations can sometimes loosen connections.
- **Heat Discoloration:** Observe if there is any discoloration on the strap or terminals, which could indicate overheating due to a poor connection or excessive current.

Cleaning:

If minor corrosion or dirt is observed on the terminals or connection points:

- Disconnect power before cleaning.
- Use a wire brush or fine-grit sandpaper to gently clean the metal surfaces of the terminals and the mating surfaces on the equipment.
- Wipe away any debris with a clean cloth.
- Re-secure the strap as per the installation instructions.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Poor electrical connection / High resistance	Loose connections, corroded terminals, dirty contact surfaces.	Tighten nuts, clean terminals and contact surfaces thoroughly, ensure metal-to-metal contact.

Problem	Possible Cause	Solution
Strap appears damaged (frayed, cut)	Physical abrasion, excessive bending, improper installation.	Replace the strap immediately. Ensure proper routing to avoid abrasion.
Strap overheating	Insufficient gauge for current, poor connection, excessive current draw.	Verify strap gauge is appropriate for application. Check and clean connections. Consult an electrician if current draw is suspected.
Corrosion on terminals despite tin plating	Extreme environmental exposure, chemical contact, prolonged moisture.	Clean terminals. Consider applying a dielectric grease or protective coating after cleaning and re-installation in highly corrosive environments.

7. WARRANTY AND SUPPORT

For any questions, concerns, or support regarding your Sherco-Auto 12" Inch 4 Gauge Braided Bonding Strap, please contact Sherco Automotive & Marine Supplies directly. They are committed to providing assistance and ensuring customer satisfaction. You can visit their official store page for more information and contact options:[Sherco-Auto Store on Amazon](#).