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Beiter DC Power SBS50

Beiter DC Power Anderson SBS50 Connector Kit User Manual

Model: SBS50 | Brand: Beiter DC Power

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of the Beiter DC Power Anderson SBS50 connector kit. These high-quality connectors are designed for reliable and secure power connections in a variety of applications, including Kid Trax batteries, other ride-on toys, and general DC power systems. Proper installation and maintenance are crucial for optimal performance and safety.

2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before using this product.

- **Disconnect Power:** Always ensure that all power sources are disconnected before attempting to install, connect, or disconnect the SBS50 connectors. Failure to do so can result in electrical shock, short circuits, or damage to equipment.
- **Proper Tools:** Use appropriate tools for wire stripping and crimping. Incorrect tools can lead to poor connections, which may cause overheating or power loss.
- **Avoid Short Circuits:** Ensure that exposed wire ends or contact pins do not touch each other or any conductive surfaces, as this can cause a short circuit.
- **Polarity:** Observe correct polarity when wiring. Anderson connectors are designed to prevent incorrect mating, but individual pins must be wired correctly to their respective positive (+) and negative (-) terminals.
- **Ventilation:** Ensure adequate ventilation when working with batteries or high-current applications to prevent the buildup of gases.
- **Professional Installation:** If you are unsure about any part of the installation process, consult a qualified electrician or technician.

3. PACKAGE CONTENTS

Your Beiter DC Power Anderson SBS50 Connector Kit includes the following components:

- 4 x Anderson SBS50 Connector Housings (Blue)
- 8 x Anderson SBS50 Contact Pins (2 pins per housing)





This image displays the complete kit, featuring four individual Anderson SBS50 connector housings in blue, each accompanied by two silver-colored contact pins. These components are ready for assembly to create four complete power connectors.

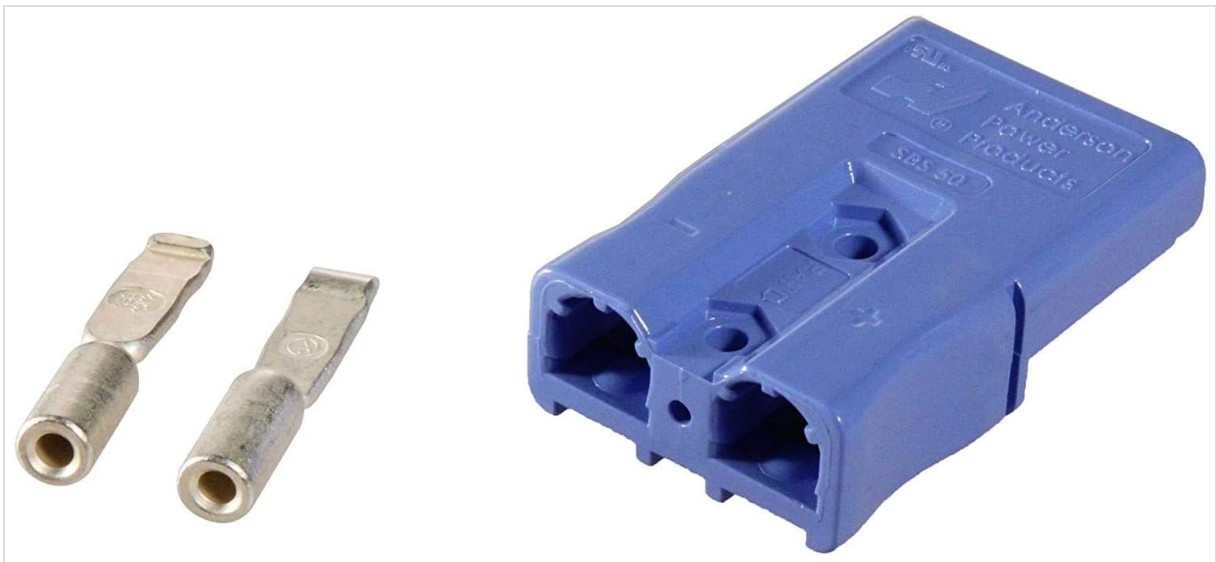
4. SETUP AND INSTALLATION

4.1. Required Tools

- Wire Strippers (appropriate for your wire gauge)
- Crimping Tool (specifically designed for Anderson Powerpole/SBS50 contacts)
- Wire Cutters
- Safety Glasses

4.2. Installation Steps

1. **Prepare Wires:** Carefully strip approximately 1/4 to 3/8 inch (6-10mm) of insulation from the end of each wire. Ensure the stripped wire is clean and free of frayed strands.
2. **Crimp Pins:** Insert the stripped wire into the barrel of an Anderson SBS50 contact pin. Using a proper crimping tool, firmly crimp the pin onto the wire. A good crimp should be mechanically strong and electrically sound. Repeat for all wires and pins.
3. **Insert Pins into Housing:** Orient the connector housing correctly. Each housing has a positive (+) and negative (-) marking. Insert the crimped pin with the positive wire into the positive terminal of the housing until it clicks securely into place. Do the same for the negative wire and pin. Ensure the pins are fully seated and locked.
4. **Verify Connection:** Gently tug on the wires to ensure the pins are securely locked within the housing and cannot be pulled out. Visually inspect the connection for any exposed wire or poor crimps.



A detailed view of one Anderson SBS50 connector housing and its two corresponding contact pins. The housing is blue, and the pins are silver, designed to be crimped onto wires and then inserted into the housing.



This image provides a front-on perspective of the blue Anderson SBS50 connector housing, highlighting the two distinct receptacles where the crimped contact pins are securely inserted. The design ensures proper polarity and connection.

5. OPERATING INSTRUCTIONS

5.1. Connecting Connectors

To connect two Anderson SBS50 connectors, align them so that the positive (+) terminal of one connector mates with the positive (+) terminal of the other, and similarly for the negative (-) terminals. Push the connectors firmly together until they are fully seated. The unique design ensures a secure, low-resistance connection.

5.2. Disconnecting Connectors

To disconnect, grasp both connector housings firmly and pull them straight apart. Avoid pulling on the wires, as this can damage the crimp connections or the wires themselves.

6. MAINTENANCE

- **Keep Clean:** Periodically inspect connectors for dirt, dust, or corrosion. Clean with a dry, non-abrasive cloth. Avoid using liquids that could leave residue or cause corrosion.
- **Inspect for Damage:** Regularly check the connector housings and pins for any signs of physical damage, cracks, discoloration from overheating, or loose wires. Replace any damaged components

immediately.

- **Avoid Excessive Force:** Do not use excessive force when connecting or disconnecting. If connectors are difficult to mate, check for obstructions or damage.
- **Storage:** Store unused connectors in a clean, dry environment away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

- **No Power/Intermittent Power:**
 - Check all connections for proper seating and secure crimps.
 - Inspect wires for breaks or damage.
 - Ensure correct polarity.
 - Verify the power source is active.
- **Connector Overheating:**
 - This often indicates a poor connection or an overloaded circuit.
 - Check crimps for looseness or corrosion.
 - Ensure the wire gauge is appropriate for the current draw.
 - Reduce the load if possible.
- **Difficulty Connecting/Disconnecting:**
 - Inspect for debris or damage within the connector housings or on the pins.
 - Ensure connectors are aligned correctly before attempting to mate.

8. SPECIFICATIONS

Brand	Beiter DC Power
Model	SBS50
Connector Type	Anderson Powerpole SBS50
Pin Count per Connector	2
Housing Color	Blue
Recommended Uses	Children Ride Ons, various DC power applications

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Beiter DC Power Anderson SBS50 connector kit, please refer to the product packaging or contact Beiter DC Power directly through their official website or customer service channels. Keep your purchase receipt for warranty claims.