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RED WOLF CA-PDB03-1628

RED WOLF 150A 12V Bus Bar with Cover Instruction Manual

Model: CA-PDB03-1628

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your RED WOLF 150A 12V Bus Bar with Cover. This power distribution terminal block is designed to organize and consolidate wiring connections in various 12V-48V DC electrical systems, including those found in cars, RVs, yachts, caravans, and solar setups. Please read this manual thoroughly before installation and use to ensure proper function and safety.



Image 1.1: The RED WOLF 150A 12V Bus Bar with its protective cover.

2. Product Features

- **Wiring Organization:** Helps to consolidate multiple connections, promoting a clean and safe wiring environment. Includes one positive (red) and one ground (black) bus bar.
- **Terminal Configuration:** Each bus bar features 4 x M6 (1/4") terminal studs and 6 x M4 (#8) terminal screws.
- **Current Rating:** Capable of handling up to 150A (MAX) with input/output voltage between 12V-48V DC. Note: Maximum continuous current may decrease with temperature and humidity variations.
- **Durable Construction:** Utilizes stainless steel screws and nuts with pure copper studs for excellent conductivity. Stainless steel components resist rust and corrosion.
- **Insulated Base:** Features an insulated PC (Polycarbonate) base for enhanced safety.

- **Protective Cover:** An open-frame, heat-resistant cover provides protection against dust and prevents accidental contact with terminals. Its transparent design allows for 180° wire lug installation.
- **Versatile Application:** Ideal for various electrical systems in automotive, marine, and off-grid applications.

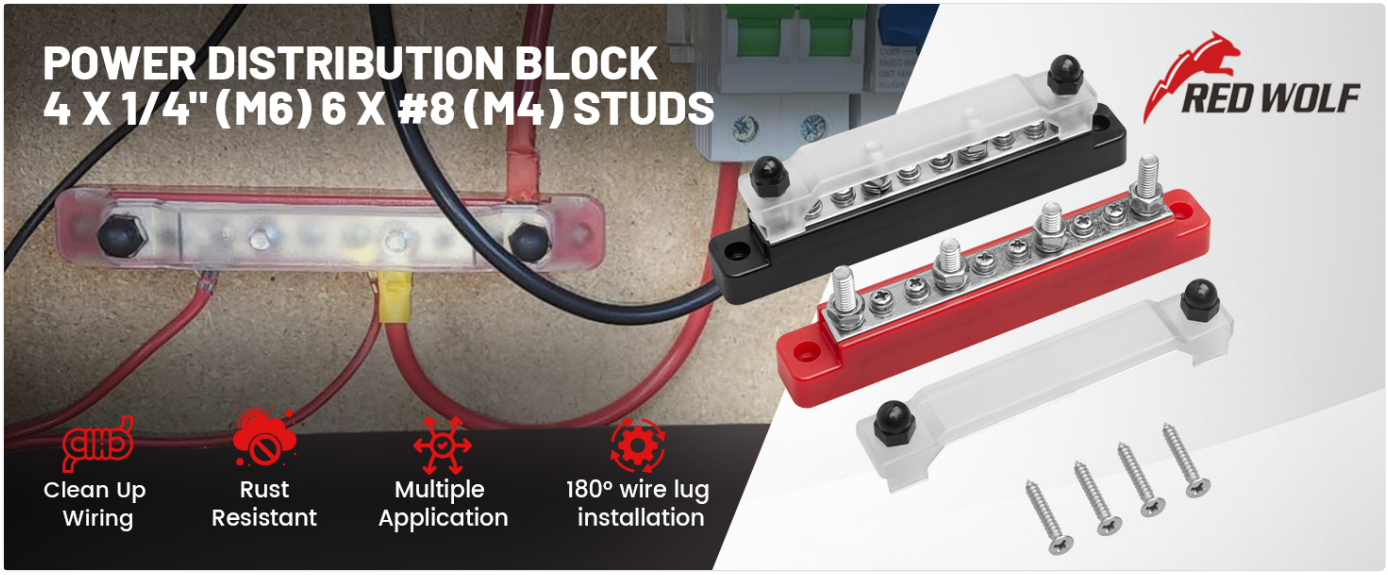


Image 2.1: Overview of the bus bar's key features, including wiring organization and voltage/current ratings.

3. Package Contents

Please verify that all items are present in your package:

- 1 x RED WOLF 150A 12V Bus Bar (Red)
- 1 x RED WOLF 150A 12V Bus Bar (Black)
- 2 x Transparent Protective Covers
- Mounting Screws



Image 3.1: The bus bar units, protective covers, and mounting screws included in the package.

4. Specifications

Specification	Value
Brand	RED WOLF
Model	CA-PDB03-1628
Current Rating	150 A (MAX)
Voltage	12V-48V DC

Specification	Value
Terminal Studs	4 x M6 (1/4")
Terminal Screws	6 x M4 (#8)
Number of Poles	4
Number of Positions	10
Material	Copper, Polybutylene Terephthalate (PBT)
Mounting Type	Rack Mount
Item Dimensions (W x H)	5.46"W x 1.49"H

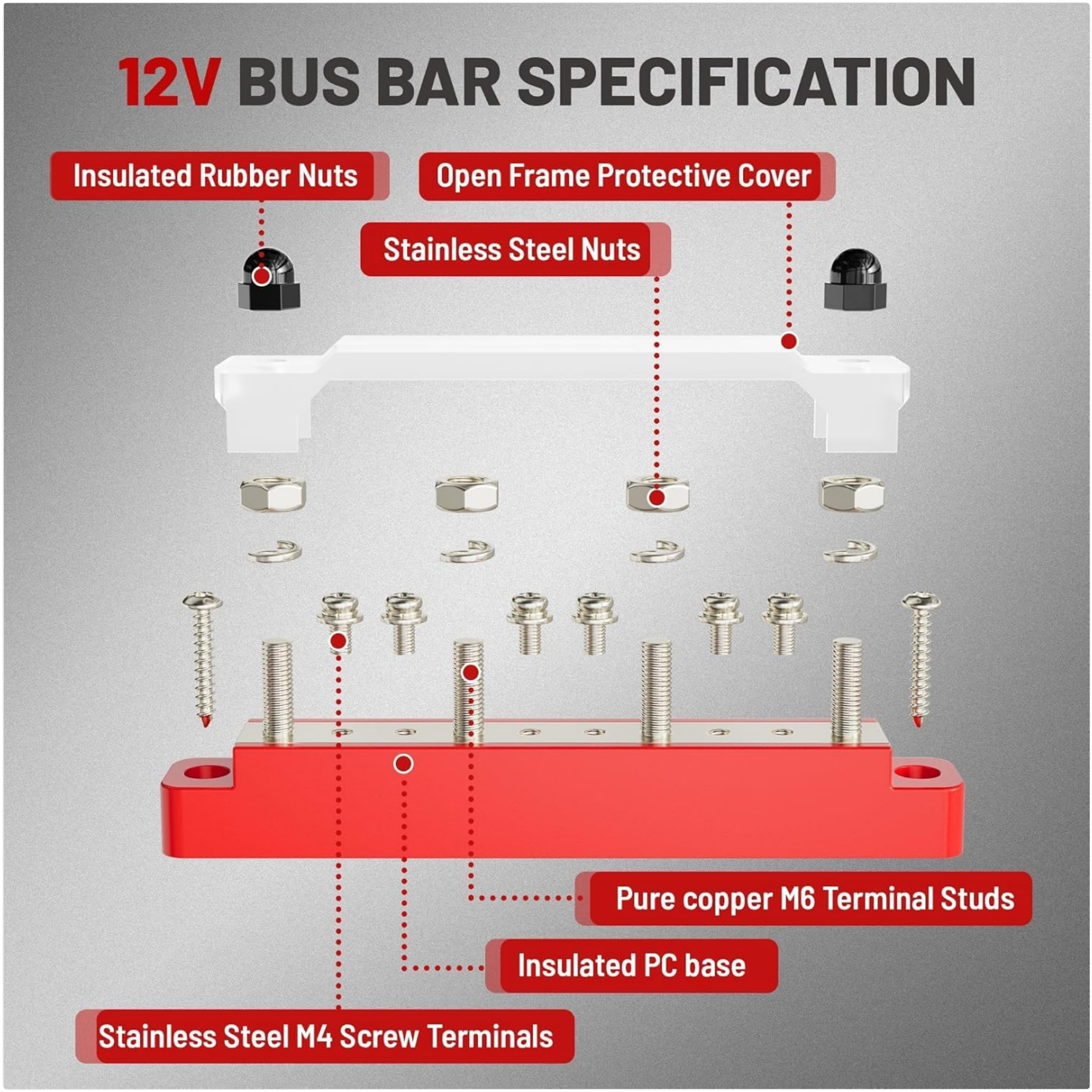


Image 4.1: Exploded view illustrating the components and specifications of the 12V bus bar.

5. Safety Information

Always adhere to the following safety guidelines when working with electrical components:

- Disconnect all power sources before installing or servicing the bus bar.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and insulated gloves.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Do not exceed the maximum current rating of 150A.
- Verify correct polarity (positive to positive, negative to negative) when connecting to a power source.
- Consult a qualified electrician if you are unsure about any part of the installation process.

6. Setup and Installation

Follow these steps to properly install your RED WOLF Bus Bar:

1. **Choose Mounting Location:** Select a dry, secure location for mounting the bus bar, away from excessive heat or moisture. Ensure sufficient space for wire routing.
2. **Mount the Bus Bar:** Use the provided mounting screws to securely fasten the bus bar to your chosen surface. The insulated PC base provides protection.
3. **Connect Main Power Cables:** Connect the main positive cable to the red bus bar and the main negative (ground) cable to the black bus bar using the M6 (1/4") terminal studs. Ensure the wire lugs are properly crimped and secured with the stainless steel nuts.
4. **Connect Accessory Wires:** Attach individual accessory wires to the M4 (#8) terminal screws. Ensure each connection is tight and secure.
5. **Install Protective Cover:** Place the transparent protective cover over the bus bar. The open-frame design allows for easy installation and access while providing protection against dust and accidental contact.

Image 6.1: Close-up view of the M6 studs and M4 screws for secure wire connections.



Image 6.2: The transparent cover provides protection while allowing visual inspection.

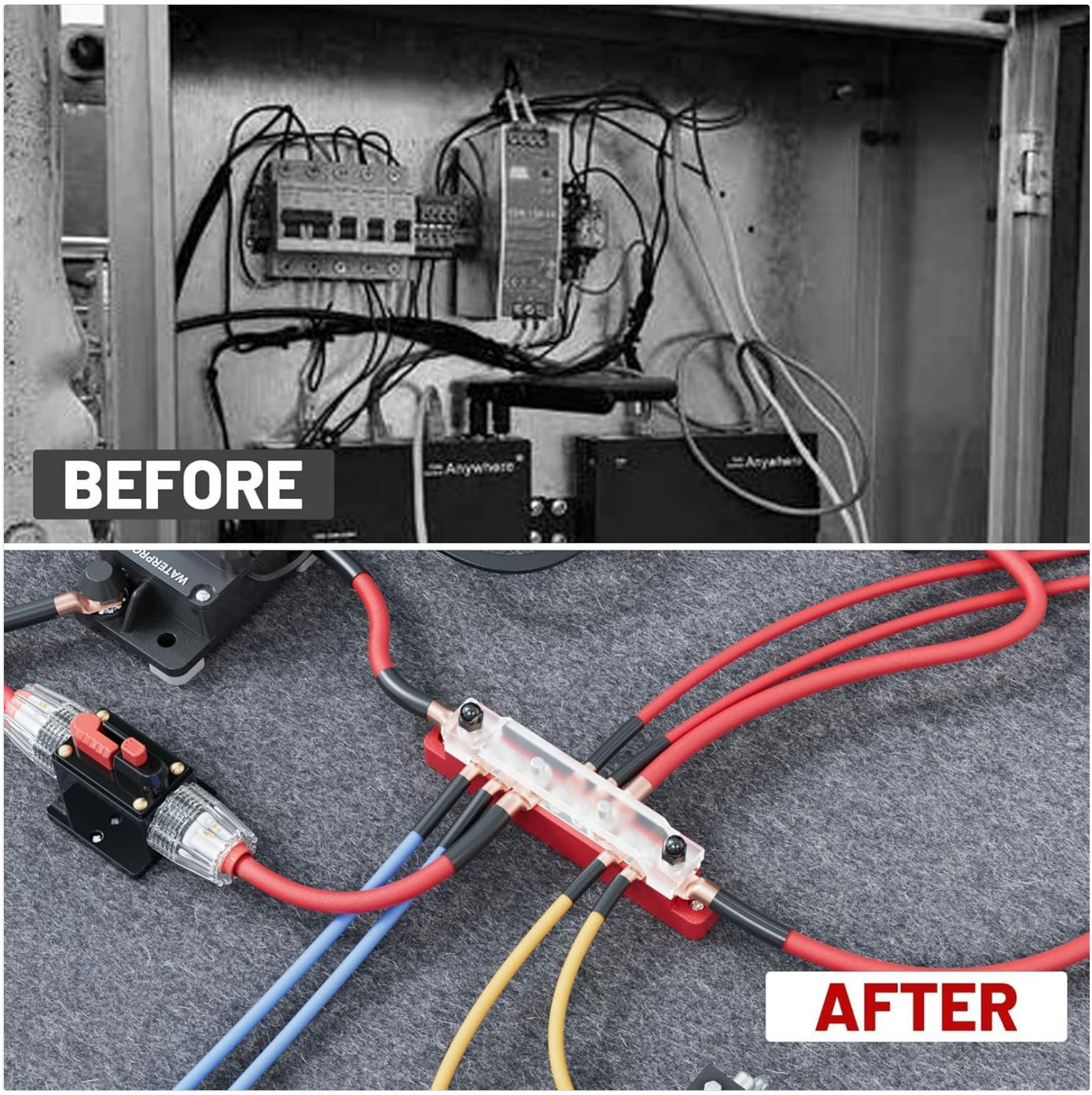


Image 6.3: Example of wiring organization before and after installing the bus bar.

Installation Video Guide

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Video 6.1: A detailed video demonstrating the features and installation process of the RED WOLF 150A 12V Bus Bar.

7. Operation

The RED WOLF Bus Bar is a passive power distribution component. Once properly installed and connected, it functions by providing a centralized point for distributing electrical current from a main power source to multiple circuits or accessories. Ensure all connected devices operate within the bus bar's specified voltage and current limits.



Image 7.1: Examples of various applications where the bus bar can be effectively used for power distribution.

8. Maintenance

Regular maintenance helps ensure the longevity and safe operation of your bus bar:

- **Periodic Inspection:** Periodically inspect all connections for tightness. Loose connections can cause resistance, heat buildup, and potential failure.
- **Cleanliness:** Keep the bus bar and its connections clean and free from dust, dirt, and corrosion. Use a dry cloth for cleaning. Avoid using abrasive cleaners or solvents.
- **Cover Integrity:** Ensure the protective cover is always in place and undamaged to prevent accidental contact and protect against environmental elements.

- **Environmental Conditions:** While designed for various environments, avoid prolonged exposure to extreme conditions beyond its intended use.

9. Troubleshooting

If you encounter issues with your bus bar, consider the following:

- **No Power to Device:**
  - Check all connections to ensure they are tight and secure.
  - Verify the main power source is active and providing voltage.
  - Inspect any fuses or circuit breakers in the circuit for trips or breaks.
- **Overheating:**
  - Ensure the total current draw does not exceed the 150A rating of the bus bar.
  - Check for loose connections, which can generate heat.
  - Verify that the wire gauge used is appropriate for the current being carried.
- **Corrosion on Terminals:**
  - Clean terminals with a wire brush and appropriate electrical contact cleaner.
  - Ensure the protective cover is always in place to minimize exposure to moisture and corrosive elements.

10. Warranty and Support

RED WOLF products are manufactured to high-quality standards. For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official RED WOLF website. Keep your purchase receipt as proof of purchase.

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