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RED WOLF DDC33109

RED WOLF Voltage Regulator DC 12V to 3.3V 5V 6V 9V Step Down Converter User Manual

Model: DDC33109

1. Product Overview

The RED WOLF Voltage Regulator is a versatile DC step-down converter designed to adjust 12V input voltage to various lower output voltages, including 3.3V, 5V, 6V, and 9V. This device is engineered for use in a wide range of vehicle electronic systems and accessories, providing stable power supply and preventing damage from over-voltage or short circuits.

Key applications include powering backup cameras, eliminating audio popping noise when installing aftermarket radio stereos, and supplying power to other automotive accessories and devices requiring specific lower voltages.

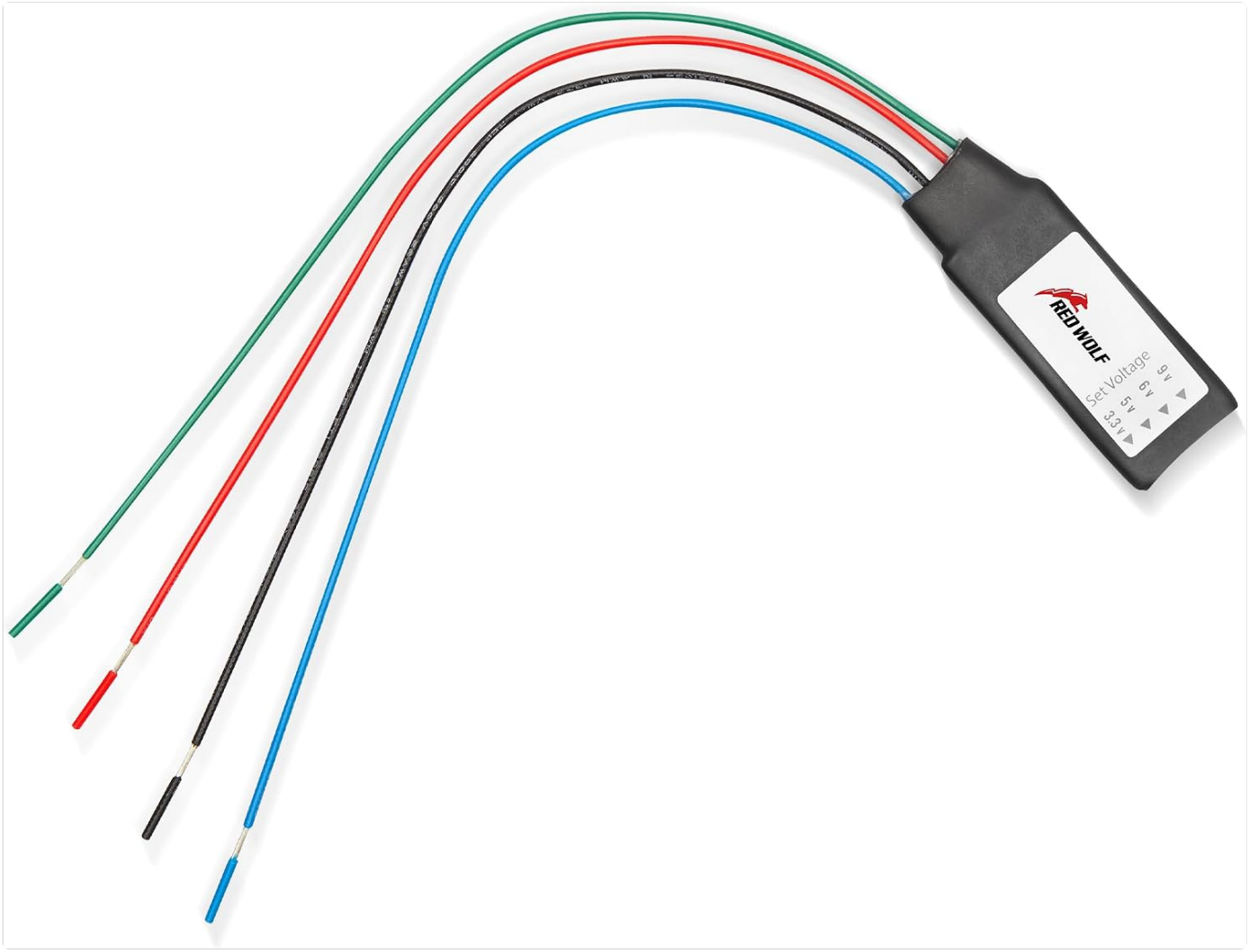

Image 1: The RED WOLF Voltage Regulator, showing the compact main unit and its four color-coded wires for connection.

2. Specifications

Feature	Detail
Input Voltage	DC 12V to 16V
Output Voltage Options	3.3V, 5V, 6V, 9V (selectable via wiring)
Dimensions (approx.)	1.69 inches (length) x 0.74 inches (width)
Item Weight	0.704 ounces (0.02 Kilograms)
Material	Professional electrical level copper wire, PVC material



Image 2: Visual representation of the input and output voltage specifications for the device.



Image 3: Diagram illustrating the compact dimensions of the voltage regulator.

3. Setup and Wiring

Installation of the RED WOLF Voltage Regulator is designed to be straightforward, requiring connection of only four wires. No cutting of existing factory wire harnesses is typically needed.

Wiring Diagram:

- **RED WIRE:** 12V Power input. Connect this to your vehicle's 12V power source.
- **BLACK WIRE:** Chassis ground. Connect this to a reliable ground point on your vehicle's chassis.
- **GREEN WIRE:** 12V-16V trigger input. This wire is used to activate the voltage regulator.
- **BLUE WIRE:** Regulated voltage output. This wire provides the desired step-down voltage (3.3V, 5V, 6V, or 9V) to your device.

The specific output voltage is determined by which output pin on the regulator unit the blue wire is connected to. Refer to the markings on the regulator unit for 3.3V, 5V, 6V, and 9V output options.

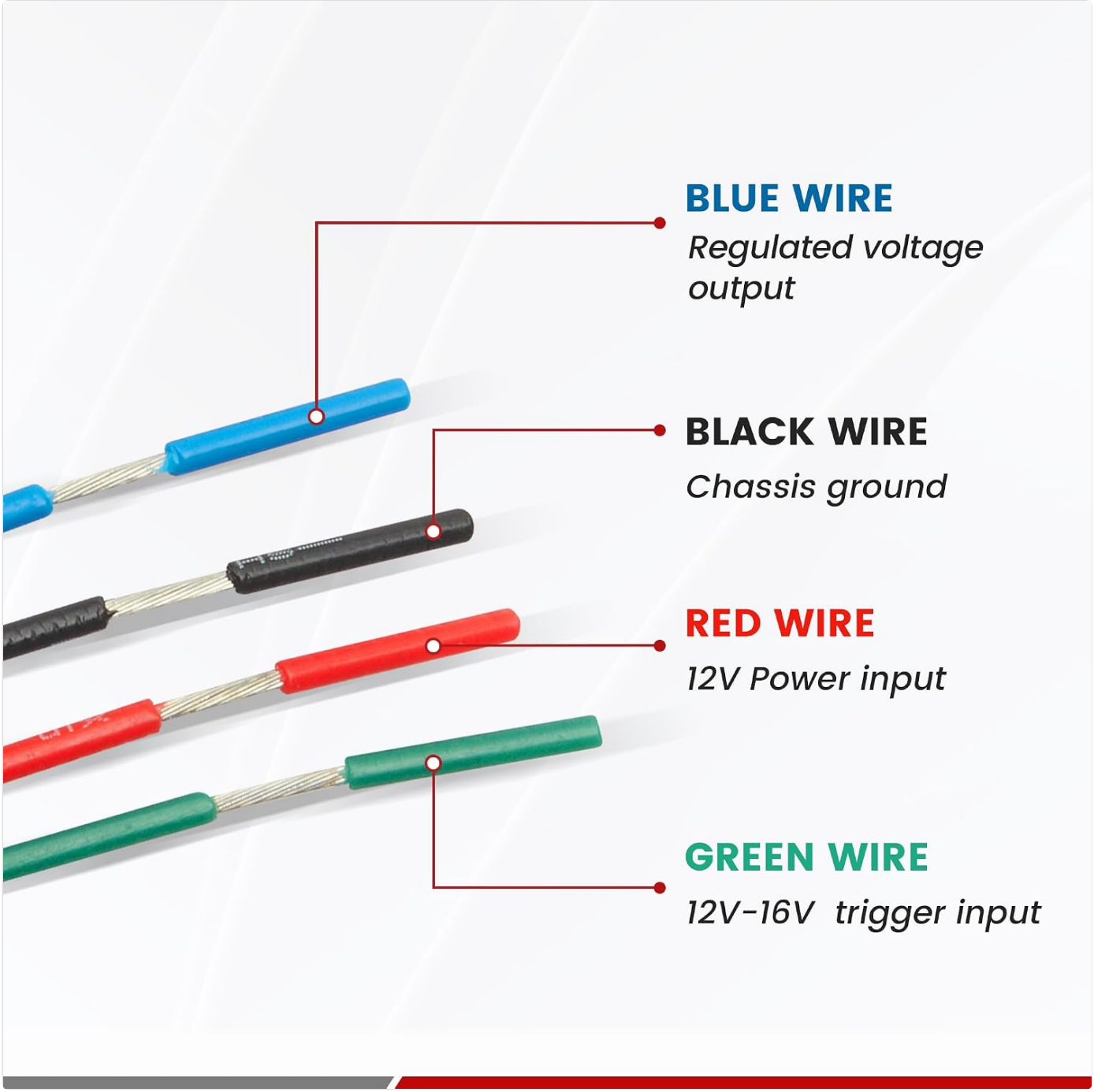

Image 4: Detailed wiring instructions indicating the function of each color-coded wire.

Important Note: This device is a step-down converter and is not designed to work as a bypass. Ensure your input voltage is within the 12V to 16V range.

4. Operating Instructions

Once correctly wired, the RED WOLF Voltage Regulator will provide a stable, regulated output voltage to your connected device. The output voltage (3.3V, 5V, 6V, or 9V) is selected by connecting the blue output wire to the corresponding pin on the regulator module. Ensure the selected voltage matches the requirements of your automotive equipment.

The device is designed to automatically regulate the voltage to the selected output, protecting your equipment from voltage fluctuations within the specified input range.



Image 5: Example of the voltage regulator integrated into a car stereo installation, highlighting its application in automotive electronic systems.

5. Maintenance

The RED WOLF Voltage Regulator is built with high-grade materials, including premium pure copper core wires for good electrical conductivity and reliability, and PVC material for flame retardant and durable protection. This design minimizes the need for extensive maintenance.

- Periodically inspect all wire connections to ensure they remain secure and free from corrosion.
- Keep the unit free from excessive dirt, moisture, and extreme temperatures.
- Avoid physical damage to the unit or its wiring.



Image 6: Visual detail of the premium pure copper core and PVC insulation, highlighting the durable construction of the wires.

6. Troubleshooting

Common Issues and Solutions:

- **Device Not Receiving Power:**
  - Verify that the 12V power input (RED WIRE) and chassis ground (BLACK WIRE) are correctly connected and receiving power/ground.
  - Ensure the trigger input (GREEN WIRE) is receiving the necessary 12V-16V signal to activate the regulator.
  - Check all connections for looseness or corrosion.
- **Incorrect Output Voltage:**
  - Confirm that the BLUE WIRE is connected to the correct output pin (3.3V, 5V, 6V, or 9V) on the regulator unit as per your device's requirements.
  - *User Reported Issue:* Some units may have labels for output voltage pins that read in reverse (e.g., 9V labeled

as 3.3V and vice-versa). If you suspect this, use a multimeter to verify the actual output voltage from each pin before connecting to your device. Contact RED WOLF support if you encounter this issue.

- **Audio Popping Noise (Aftermarket Stereo):**
  This voltage regulator is specifically designed to help eliminate the "pop" sound often heard from speakers when installing an aftermarket radio stereo. This noise is typically caused by voltage differences or spikes during turn-on.
  - Ensure the regulator is correctly integrated into the power supply line for the amplifier or relevant component causing the pop.
  - The step-down resistor will regulate the voltage coming from your aftermarket stereo (e.g., from 12V to 5V) to prevent overload and eliminate the pop.



Image 7: Comparison showing the "pop" sound from speakers before and its elimination after installing the voltage regulator.

7. Warranty and Support

For any questions, technical assistance, or warranty inquiries regarding your RED WOLF Voltage Regulator, please

contact RED WOLF customer support. While specific warranty details are not provided in this manual, RED WOLF is committed to customer satisfaction.

You can find more information and contact details by visiting the official RED WOLF store on Amazon:

Visit the RED WOLF Store on Amazon

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