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RED WOLF RW-XC02-2420

RED WOLF RW-XC02-2420 Radio Wiring Harness Instruction Manual

Model: RW-XC02-2420 | Brand: RED WOLF

1. Introduction

The RED WOLF RW-XC02-2420 Radio Wiring Harness is designed to facilitate the installation of an aftermarket stereo head unit in specific Toyota and Lexus vehicles equipped with a factory JBL amplifier system. This 20-pin harness provides a seamless connection, allowing the new stereo to integrate with the existing JBL amplifier without requiring modifications to the vehicle's original wiring.

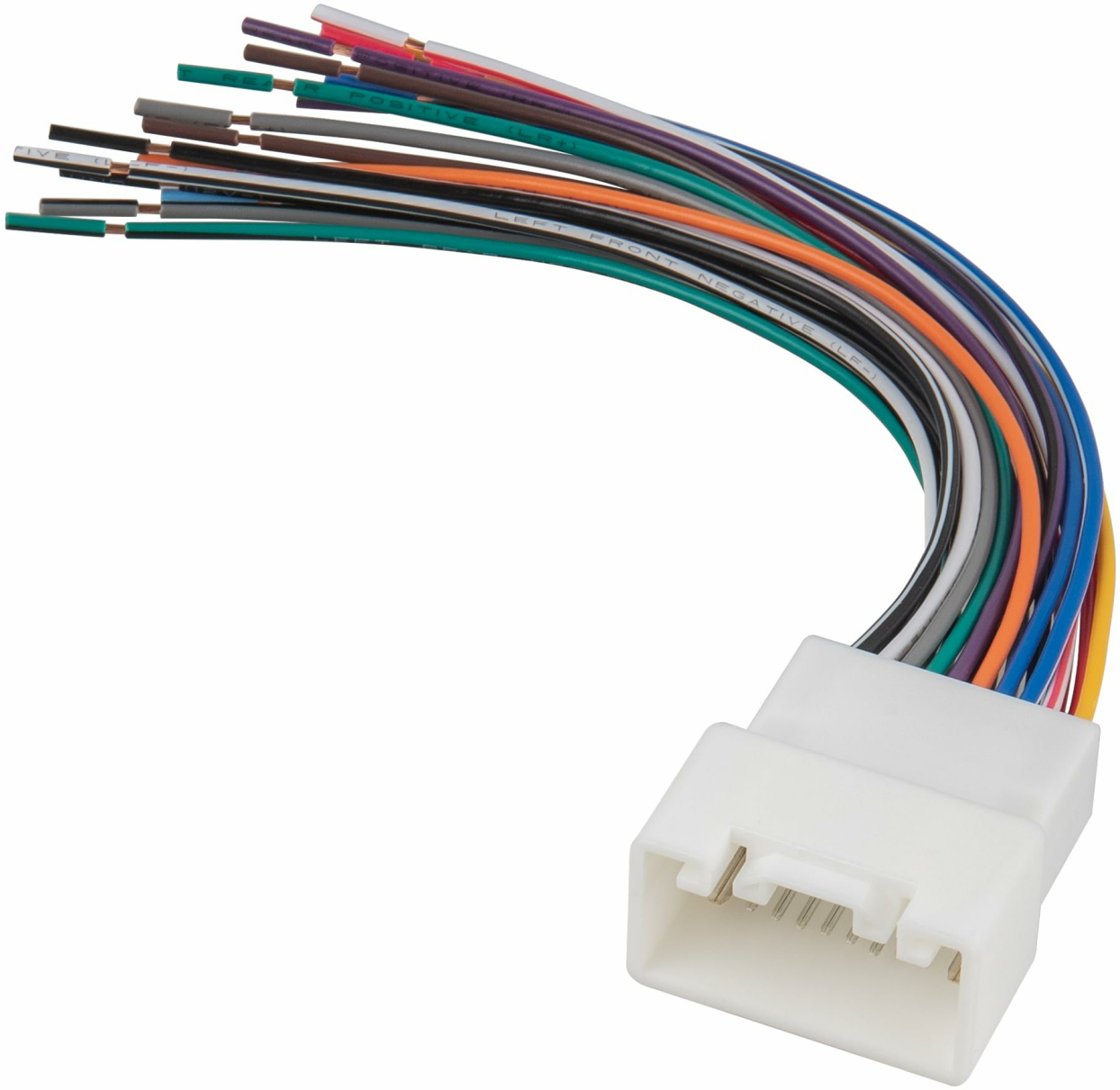


Image 1.1: The RED WOLF 20-Pin Radio Wiring Harness.

2. Compatibility

This wiring harness is compatible **ONLY** with vehicles featuring a factory-installed JBL amplifier system. Please verify your vehicle's audio system before installation.

Compatible Toyota Models:

- Toyota Highlander: 2001-2005, 2007 (Note: 2006 Highlander Limited without subwoofer is also compatible)
- Toyota Tundra: 2003, 2004-2005 (Access Cab/Reg Cab)
- Toyota Camry: 2002-2006 (with factory Navigation)
- Toyota Solara: 2000-2003
- Toyota Avalon: 2000-2004

- Toyota Celica: 2000-2005
- Toyota Sequoia: 2001-2004
- Toyota Land Cruiser 100: 2003-2005

Compatible Lexus Models:

- Lexus ES 330: 2002-2006
- Lexus ES 300: 2000-2001
- Lexus IS 300: 2004
- Lexus RX 300/RX 330/RX 350: 2003-2008
- Lexus LS 460/LS 460L: 2006-2009
- Lexus SC 430: 2001-2002



Image 2.1: Visual representation of compatible vehicle models.

3. Features

- **JBL Amplifier System Integration:** Specifically designed to work with factory-installed JBL amplifier systems, allowing aftermarket stereos to utilize the existing amplifier.
- **20-Pin Connector:** Features a full 20-pin configuration for comprehensive signal transfer.
- **Pre-stripped Wires:** Wires are pre-stripped for easier and quicker installation, eliminating the need for additional wire preparation.
- **OEM Wiring Preservation:** Enables installation without cutting or modifying the vehicle's original equipment manufacturer (OEM) wiring harness.
- **Comprehensive Connections:** Provides connections for 4 speakers, ignition, 12V accessory, ground, and amplifier control.
- **Premium Quality:** Constructed with a pure copper core for excellent conductivity and reliable performance.

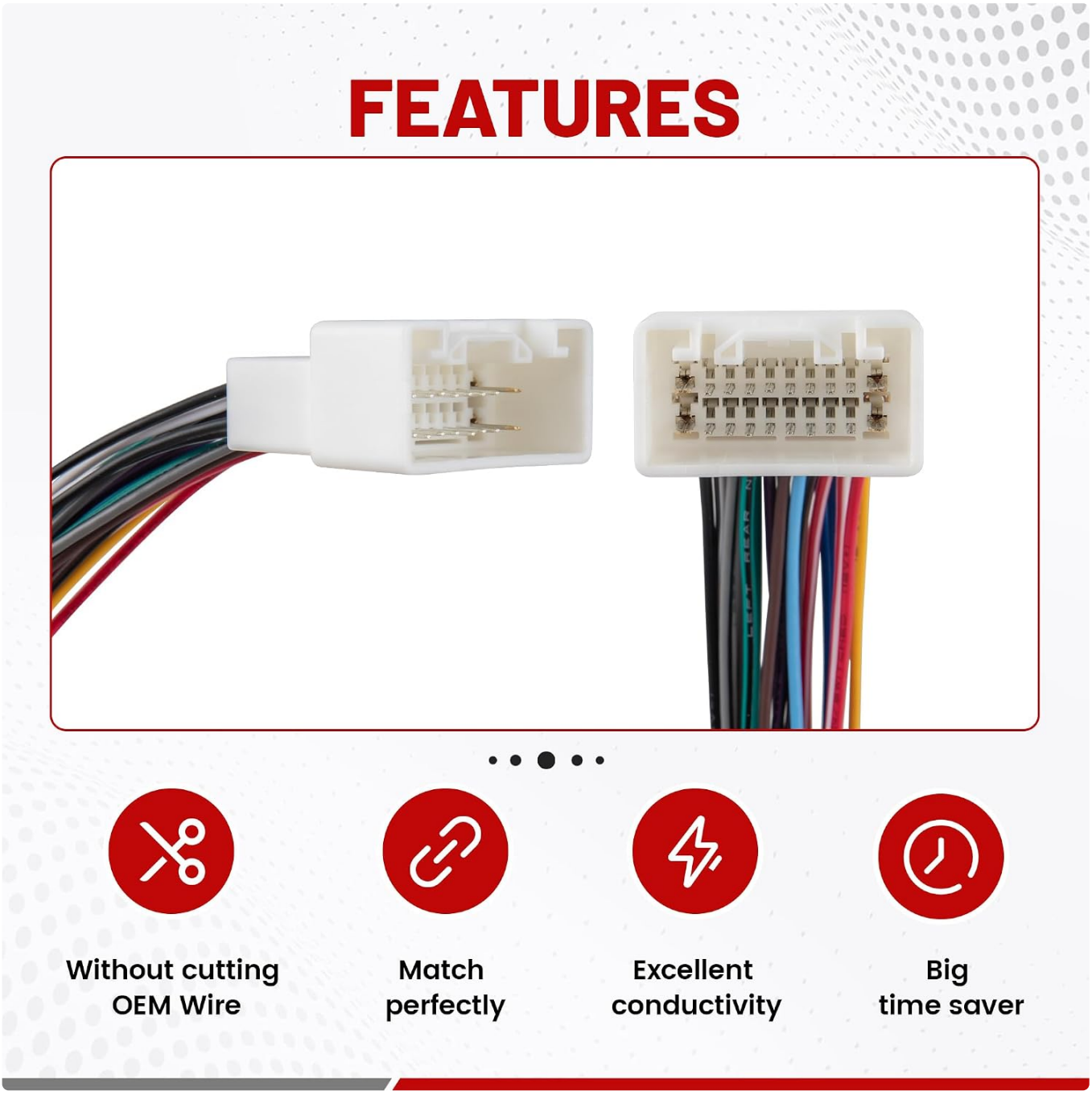


Image 3.1: Close-up of the 20-pin connectors.

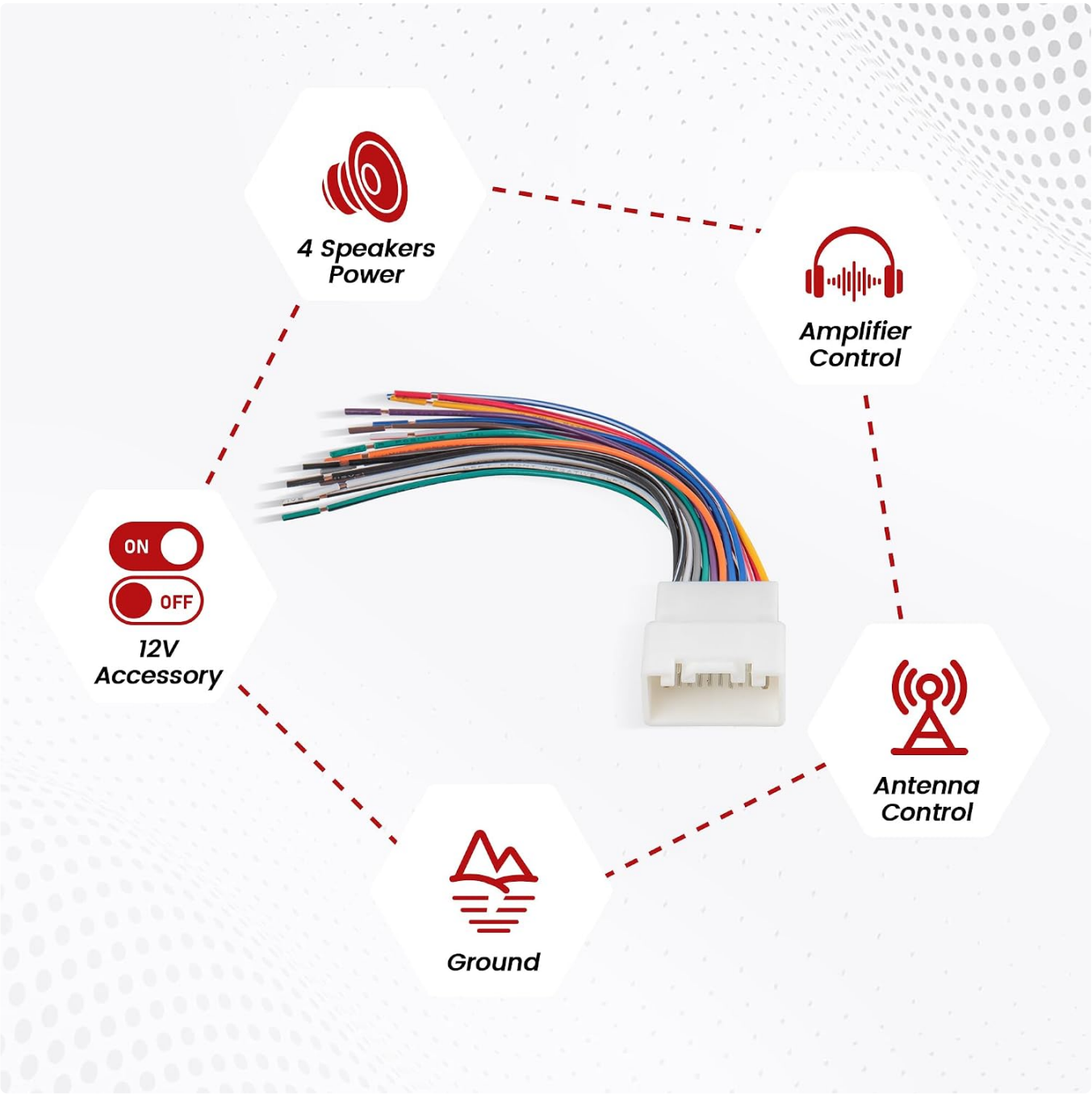


Image 3.2: Diagram illustrating the functions of each wire.

4. Setup and Installation

Follow these steps for proper installation of the RED WOLF RW-XC02-2420 wiring harness. Professional installation is recommended if you are unfamiliar with car audio wiring.

1. **Safety First:** Disconnect the vehicle's negative battery terminal to prevent electrical shorts during installation.
2. **Access the Factory Radio:** Carefully remove the vehicle's dashboard trim and the factory stereo head unit to access the existing wiring harness. Refer to your vehicle's service manual for specific removal instructions.
3. **Identify Factory Harness:** Locate the factory 20-pin wiring harness connected to your original stereo. Ensure it matches the connector on the RED WOLF harness.
4. **Connect Aftermarket Stereo:** Connect the wires from your new aftermarket stereo to the corresponding wires on the RED WOLF wiring harness. Match wire colors and functions carefully. Common connections include:

- Yellow: 12V Constant Power
- Red: 12V Accessory/Ignition
- Black: Ground
- Blue: Amplifier Turn-On / Power Antenna
- Speaker Wires (e.g., White/White-Black for Front Left, Gray/Gray-Black for Front Right, Green/Green-Black for Rear Left, Purple/Purple-Black for Rear Right)

5. **Connect Harness to Vehicle:** Plug the RED WOLF 20-pin harness directly into the vehicle's factory wiring harness.
6. **Test Connections:** Before reassembling the dashboard, reconnect the vehicle's negative battery terminal. Turn on the vehicle and the new stereo to test all functions, including audio output from all speakers, radio reception, and any other features.
7. **Secure and Reassemble:** Once all functions are verified, carefully secure all wiring to prevent rattles or damage. Reinstall the aftermarket stereo and dashboard trim.



Image 4.1: The wiring harness connected to an aftermarket radio.



Image 4.2: An illustration depicting the installation process within a vehicle's dashboard.

5. Operating

The RED WOLF RW-XC02-2420 wiring harness is a passive component that enables the functionality of your aftermarket stereo with the vehicle's existing JBL amplifier system. Once correctly installed, the operation of your audio system will be controlled entirely by your new aftermarket head unit. Refer to your aftermarket stereo's instruction manual for specific operating procedures.

6. Maintenance

The wiring harness requires minimal maintenance. To ensure longevity and optimal performance:

- **Keep Dry:** Ensure the harness and connections remain dry and free from moisture.
- **Avoid Extreme Temperatures:** Protect the wiring from extreme heat or cold, which can degrade insulation over time.
- **Periodic Inspection:** If you experience audio issues, a periodic visual inspection of the connections for looseness or corrosion may be beneficial.
- **Secure Wiring:** Ensure all wiring is properly secured to prevent chafing or accidental disconnection due to vehicle vibrations.

7. Troubleshooting

If you encounter issues after installing the wiring harness, consider the following troubleshooting steps:

- **No Sound or Low Volume:**
  - **Compatibility Check:** Double-check that your vehicle indeed has a JBL amplifier system. This harness is designed specifically for JBL systems.
  - **Amplifier Turn-On Wire:** Ensure the blue amplifier turn-on wire from the aftermarket stereo is correctly connected to the corresponding amplifier control wire on the RED WOLF harness.
  - **Loose Connections:** Verify all connections between the aftermarket stereo, the RED WOLF harness, and the vehicle's factory harness are secure.
  - **Speaker Wiring:** Confirm that all speaker wires are correctly matched (positive to positive, negative to negative) and securely connected.
- **Static or Distorted Sound:**
  - **Ground Connection:** Ensure the ground wire is securely connected to a clean, unpainted metal surface on the vehicle chassis.
  - **Interference:** Check for any loose or unshielded wires that might be picking up electrical interference.
- **Only Some Speakers Working:**
  - **Individual Speaker Wires:** Inspect the connections for the non-working speakers. Ensure they are properly connected and not shorted.
  - **Aftermarket Stereo Settings:** Check the balance and fader settings on your aftermarket stereo.

If issues persist after performing these checks, it is recommended to consult a professional car audio installer.

8. Specifications

Brand	RED WOLF
Model	RW-XC02-2420
Material	Copper

Connector Type	20-pin
Cable Type	Multi-pin
Item Weight	0.06 Pounds
Included Components	Radio Wiring Harness W/JBL Amplifier System

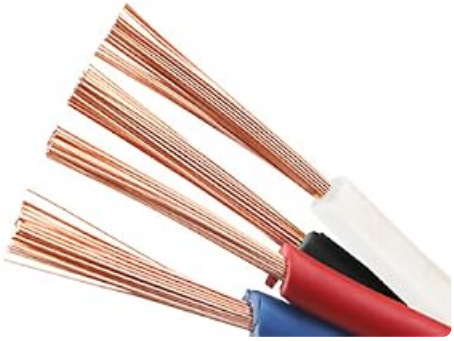


Image 8.1: Detail of the pure copper core wires.

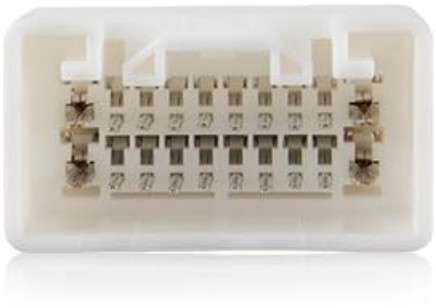


Image 8.2: Detail of the 20-pin connector terminals.

9. Warranty and Support

For information regarding warranty coverage, returns, or technical support, please contact RED WOLF customer service directly or refer to the seller's policies where the product was purchased. Keep your proof of purchase for any warranty claims.

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