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RED WOLF CJ001-A

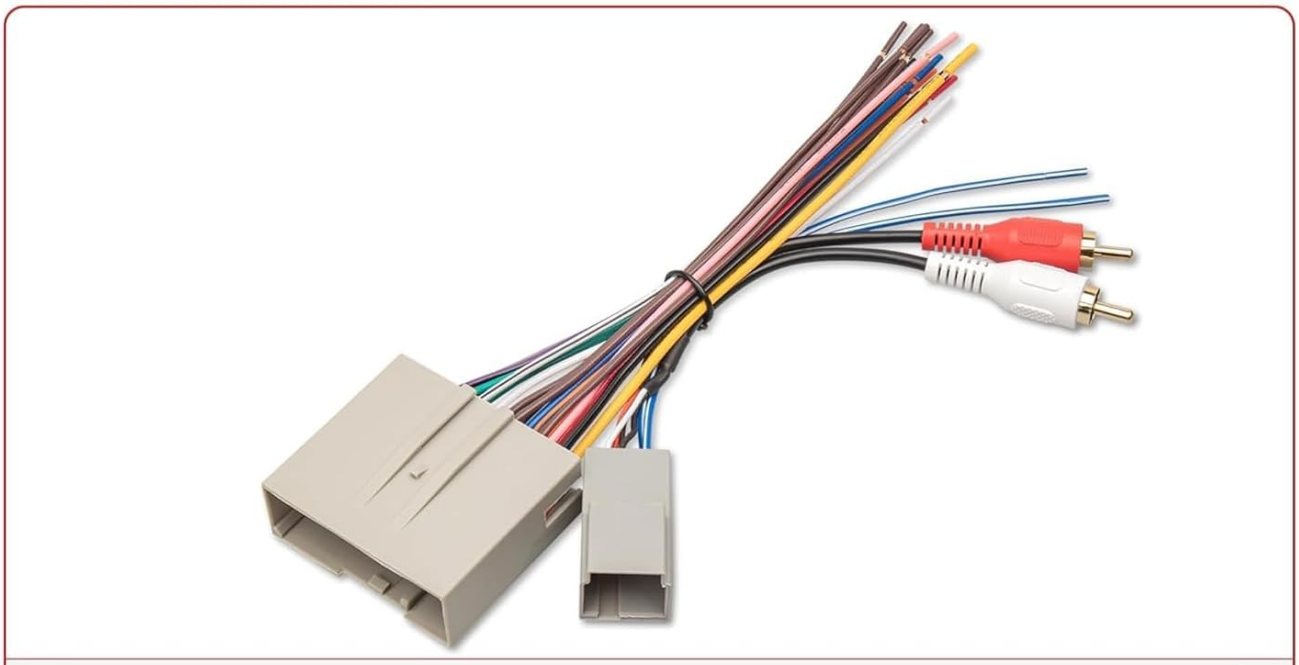
RED WOLF Car Radio Wiring Harness and Antenna Adapter (Model CJ001-A) Instruction Manual

Model: CJ001-A

1. Product Overview

The RED WOLF Car Radio Wiring Harness with Antenna Adapter and RCA Input (Model CJ001-A) is designed to facilitate the installation of an aftermarket stereo or CD player in compatible vehicles. This kit allows for seamless integration using existing factory wiring and connectors, eliminating the need for cutting or splicing original vehicle wires. It includes a 24-pin wiring connector for power and speaker connections, and an 8-pin plug for RCA input to the factory subwoofer, specifically designed for base amplified sound systems (excluding Sony/THX systems).

FITMENT LIST



- Compatible with Ford Mustang 2004-2009, Explorer 2006-2009 (without NAV), Explorer Sport Trac 2006-2010, Taurus (including X) 2008-2009, Crown Victoria 1998-2002, 2003 Crown Victoria LX, Fusion 2006-2009, Escape 2004-2007 (with sub, 7-speaker system), Escape Hybrid 2005-2007, Escape 2011-2012, Expedition 2004-2008 (without NAV)
- Replacement for Ford F-150 2004-2014, F-250 / 350 / 450 / 550 2011-2012 (without NAV), F-250 / 350 / 450 / 550 2008-2010, 2013-2016 F-250/350/450/550 XL model no factory CD radio, Focus 2005-2007, 2010 Focus with sync, Freestyle 2005-2007
- Fitment list: For Lincoln: MKX (w/ OEM NAV) 2007-2010, Navigator (w/OEM NAV) 2007-2014; For Mercury Mariner 2008-2011, Mountaineer 2006-2010, Sable 2008-2009; For Hyundai Sonata 2006-2008

Image: Complete RED WOLF wiring harness kit, including the main harness, RCA input, and antenna adapter.

Image: Diagram highlighting key features such as no cutting of OEM wires, pre-stripped wires, and excellent conductivity.

2. Compatibility

This wiring harness is compatible with a range of vehicles. Please verify your vehicle's make, model, and year against the list below to ensure proper fitment. This product is designed for base amplified sound systems only and is not compatible with Sony/THX sound systems.

- **Ford:** Mustang (2004-2009), Explorer (2006-2009 without NAV), Explorer Sport Trac (2006-2010), Taurus (including X) (2008-2009), Crown Victoria (1998-2002), 2003 Crown Victoria LX, Fusion (2006-2009), Escape (2004-2007 with sub, 7-speaker system), Escape Hybrid (2005-2007), Escape (2011-2012), Expedition (2004-2008 without NAV).
- **Ford F-Series:** F-150 (2004-2014), F-250 / 350 / 450 / 550 (2011-2012 without NAV), F-250 / 350 / 450 / 550 (2008-2010), 2013-2016 F-250/350/450/550 XL model (no factory CD radio).
- **Other Ford Models:** Focus (2005-2007), 2010 Focus with Sync, Freestyle (2005-2007).

- **Lincoln:** MKX (with OEM NAV) (2007-2010), Navigator (with OEM NAV) (2007-2014).
- **Mercury:** Mariner (2008-2011), Mountaineer (2006-2010), Sable (2008-2009).
- **Hyundai:** Sonata (2006-2008).



Image: Visual representation of the fitment list, showing various compatible vehicle models.

3. Package Contents

Your RED WOLF wiring harness kit includes the following components:

- 1 x 24-pin Wiring Connector (for power and speaker connections)
- 1 x 8-pin RCA Input Plug (for factory subwoofer)
- 1 x Antenna Adapter



Image: Close-up of the 24-pin wiring connector.



Image: Close-up of the 8-pin RCA input connector.



Image: Close-up of the RCA plugs for audio input.



Image: The DIN cable adapter for antenna connection.

4. Installation Guide

Before beginning installation, ensure the vehicle's battery is disconnected to prevent electrical shorts or damage. It is recommended to consult a professional if you are unsure about any steps.

4.1. Remove Factory Radio

1. Carefully remove the dash trim surrounding your factory radio. Refer to your vehicle's service manual or online resources for specific instructions on removing trim clips and fasteners for your make and model.
2. Unscrew and remove the factory radio from the dashboard.
3. Disconnect all existing wiring harnesses and the antenna cable from the back of the factory radio.



Image: Illustration of a factory radio's rear panel, showing the 24-pin and 8-pin sockets for connection.

4.2. Wire Harness Connection

The RED WOLF harness features color-coded wires that match standard aftermarket stereo wiring. Match the wires from your new stereo's harness to the corresponding wires on the RED WOLF harness. You can solder the connections or use appropriate electrical connectors, then insulate them with electrical tape or heat shrink tubing.

- Connect the 24-pin connector for power and speaker wires.
- Connect the 8-pin RCA plug for the factory subwoofer.
- **Important:** The ground wires and the brown break bypass wire need to be connected together.

- If your aftermarket radio has steering wheel controls and your vehicle supports them, connect the appropriate wires. If not, tape off any unused wires to prevent shorts.

4.3. Antenna Adapter Installation

Connect the provided antenna adapter to the vehicle's factory antenna cable and then to the antenna input on your new aftermarket stereo.

4.4. Rear Camera Installation (Optional)

If installing a rear camera, route the camera's wiring from the back of the vehicle to the dashboard. For trucks, routing under the bed liner or along the frame is often feasible. For cars or SUVs, routing along the headliner or floorboard, and into the panel by the taillight or up against the glass, may be necessary.

1. Access the vehicle's taillight assembly. This typically involves removing a couple of bolts.
2. Identify the reverse light wire. Use a multimeter or trial and error to find the hot wire that activates when the vehicle is in reverse.
3. Use pig tail tie-ins to connect the camera's red power wire to the reverse light's hot wire. This avoids severing the vehicle's original wiring.
4. Connect the camera's black ground wire to a metal bolt on the vehicle's frame to ensure a proper ground connection.
5. Mount the camera securely, typically with screws. No drilling is needed if using a license plate bracket.

4.5. Test Functionality

Before fully reassembling the dash, reconnect the vehicle's battery and test all functions of the new stereo, including power, speaker output, radio reception, and rear camera display (if installed). Ensure all connections are secure and working correctly.

4.6. Reassemble Dash

Once all functions are verified, carefully secure the new aftermarket stereo in the dashboard. Reattach the dash trim, ensuring all clips and fasteners are properly engaged. Double-check that no wires are pinched or exposed.

5. Wiring Diagram

The following diagram illustrates the wire color codes and their corresponding functions for the RED WOLF wiring harness. This diagram is crucial for correctly connecting the harness to your aftermarket stereo.



Image: Detailed wiring diagram showing color codes for power, ground, speakers, and other functions.

- **Yellow:** +12V Constant Power Supply (12V+)
- **Black:** Chassis Ground (12V-)
- **Red:** +12V Ignition/Switched (12V+)
- **Orange/White:** Illumination
- **Blue:** Power Antenna / Amplifier Turn On
- **Brown:** Reverse Gear Sense (Manual Transmission) Input OR (NC Reserved)
- **Pink:** Phone Mute
- **Brown (SWC+), Brown (SWC-):** Steering Wheel Control (if applicable)
- **Speaker Wires:** White/White-Black (Left Front), Green/Green-Black (Left Rear), Purple/Purple-Black (Right Rear), Grey/Grey-Black (Right Front).

Note: If you are not using the amplifier function, the blue/white wires should be taped off.

6. Operation

Once installed, your aftermarket stereo will operate according to its manufacturer's instructions. The RED WOLF harness ensures proper electrical connections for the stereo's core functions. Common features include:

- **FM/AM Radio:** Tune into your favorite stations.
- **PhoneLink:** Connect your smartphone for navigation, calls, and media.
- **USB Input:** Play media from USB devices.
- **Bluetooth Music:** Stream audio wirelessly from your devices.
- **Setup:** Access system settings and customization options.

7. Maintenance

To ensure the longevity and optimal performance of your car radio wiring harness and aftermarket stereo, follow these general maintenance guidelines:

- **Regular Checks:** Periodically inspect visible wiring connections for any signs of wear, corrosion, or looseness.
- **Cleanliness:** Keep the area around the stereo and wiring free from dust and debris. Use a soft, dry cloth for cleaning.
- **Avoid Moisture:** Protect all electrical connections from moisture and extreme temperatures.
- **Professional Inspection:** If you notice any unusual behavior from your stereo or electrical system, have it inspected by a qualified automotive technician.

8. Troubleshooting

If you encounter issues during or after installation, consider the following troubleshooting steps:

- **No Power to Stereo:** Double-check the red (switched power) and yellow (constant power) wire connections. Some vehicles may require the red power cable to be wired to an alternate location, such as a fuse box, if the factory harness does not provide switched power.
- **No Sound from Speakers:** Verify all speaker wire connections (white, green, purple, grey, and their black-striped counterparts). Ensure the 24-pin connector is fully seated. Confirm your vehicle has a base amplified sound system if using the 8-pin RCA plug.
- **Rear Camera Not Activating:** Ensure the camera's red power wire is correctly connected to the reverse light's hot wire and the black ground wire is securely connected to the vehicle's frame. Check the camera's video input connection to the stereo.
- **Steering Wheel Controls Not Working:** If your vehicle has steering wheel controls, ensure they are properly wired to the aftermarket stereo. Some aftermarket stereos may require an additional interface module for steering wheel control functionality.
- **Incompatible Vehicle:** If the harness does not fit or function as expected, re-verify your vehicle's compatibility with the provided fitment list. Specific factory systems (e.g., Ford Shaker 500) may require different or additional harnesses.
- **Delayed Accessories Function:** Be aware that some aftermarket installations may alter the vehicle's delayed accessory power function (where the radio stays on after the ignition is off until a door opens). This is a characteristic of certain wiring setups.

If problems persist, it is recommended to seek assistance from a qualified car audio installer.

9. Specifications

Specification	Detail
Brand	RED WOLF

Model Number	CJ001-A
Material	Copper, Polyvinyl Chloride (PVC)
Item Weight	3.17 ounces (0.09 Kilograms)
Connector Type	RCA
Wire Diameter	2 Millimeters
Package Dimensions	9.21 x 3.7 x 1.18 inches

10. Warranty and Support

For warranty information or technical support, please refer to the contact details provided with your product packaging or visit the official RED WOLF website. Ensure you have your model number (CJ001-A) and purchase details available when contacting support.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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