RED WOLF 20-Pin Car Radio Wiring Harness with Antenna Adapter

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User Manual

1. PRODUCT OVERVIEW

The RED WOLF 20-Pin Car Radio Wiring Harness with Antenna Adapter is designed to facilitate the installation of an aftermarket radio in compatible Nissan, Subaru, and Infiniti vehicles. This harness allows for a direct connection to the existing factory wiring, eliminating the need to cut or modify original vehicle wiring. It ensures proper power, speaker, and antenna connections for your new stereo system.

RED WOLF Car Radio Wiring Harness with Antenna Adapter for aftermarket radio installation.

2. COMPATIBILITY

This wiring harness and antenna adapter are compatible with a selection of Nissan, Subaru, and Infiniti models. Please verify your vehicle's make, model, and year against the list below to ensure proper fitment.

- **Nissan Models:** 2009-2013 370Z, 2007-2013 Altima, 2008-2013 Armada, 2009-2013 Cube, 2009-2011 Frontier, 2011-2013 Juke, 2007-2013 Maxima, 2009-2013 Murano, 2012-2013 NV, 2008-2013 Pathfinder (*Does not fit vehicles with 6 speaker system*), 2008-2013 Rogue, 2007-2012 Sentra, 2009-2013 Titan, 2009-2013 Versa, 2008-2009 Xterra, 2011-2012 Xterra.

- **Subaru Models:** 2011-2014 Impreza (*Without Factory Navigation*), 2008-2013 WRX (*Without Factory Navigation*).
- **Infiniti Models:** 2009-2013 G37, 2015 Q40, 2014-2015 Q60.

COMPATIBILITY LIST

☑ *For Nissan* 2009-2013 370Z, 2007-2013 Altima, 2008-2013 Armada, 2009-2013 Cube, 2009-2011 Frontier, 2011-2013 Juke, 2007-2013 Maxima, 2009-2013 Murano, 2012-2013 NV, 2008-2013 Pathfinder (Does not fit vehicles with 6 speaker system), 2008-2013 Rogue, 2007-2012 Sentra, 2009-2013 Titan, 2009-2013 Versa, 2008-2009 Xterra, 2011-2012 Xterra

☑ *For Subaru Model:* 2011-2014 Impreza (Without Factory Navigation), 2008 - 2013 WRX (Without Factory Navigation);

☑ *For Infiniti* 2009-2013 G37, 2015 Q40, 2014-2015 Q60

Visual compatibility list for Nissan, Subaru, and Infiniti models.

3. PRODUCT COMPONENTS

The package includes the main 20-pin radio wiring harness and an antenna adapter. The wiring harness features pre-stripped wires for easy connection to your aftermarket radio's wiring.

- **20-Pin Radio Wiring Harness:** Connects to the vehicle's factory radio connector. Provides connections for 4 speakers, ignition, 12V accessory, ground, and Steering Wheel Control (SWC).
- **Antenna Adapter:** Connects the aftermarket radio's antenna input to the vehicle's factory antenna cable.

4 Speakers Power

12V Accessory

Ground

SWC Control

Antenna Control
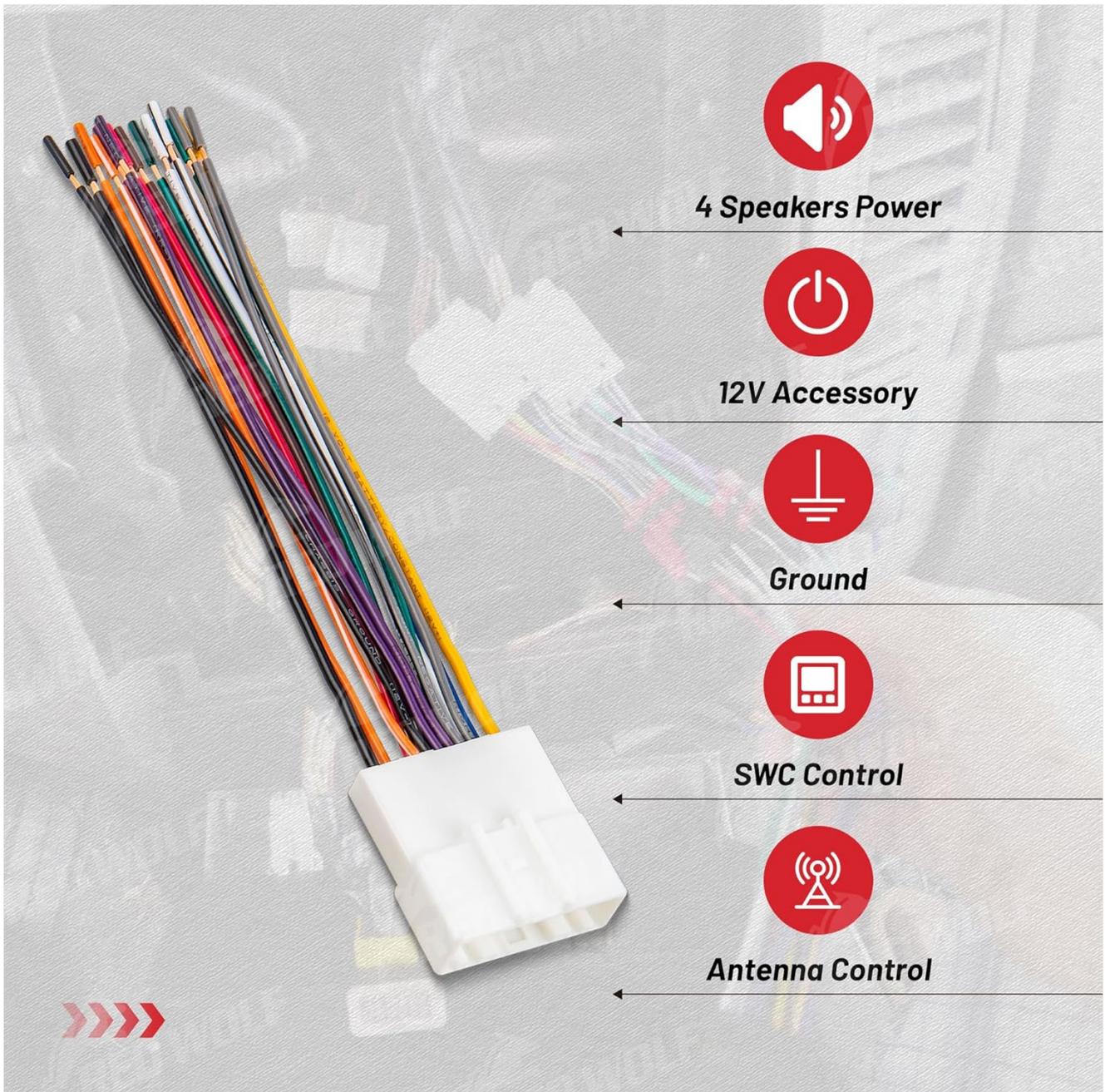
Labeled components of the RED WOLF wiring harness.

UPGRADED VERSION RADIO WIRE HARNESS

DIN PLUG

SQUARE PEG PLUG

✅ **PVC MATERIAL MADE**
Flame retardant
and durable protection wire

✅ **SUPERIOR PURE COPPER CORE**
It has good electrical conductivity
and reliability
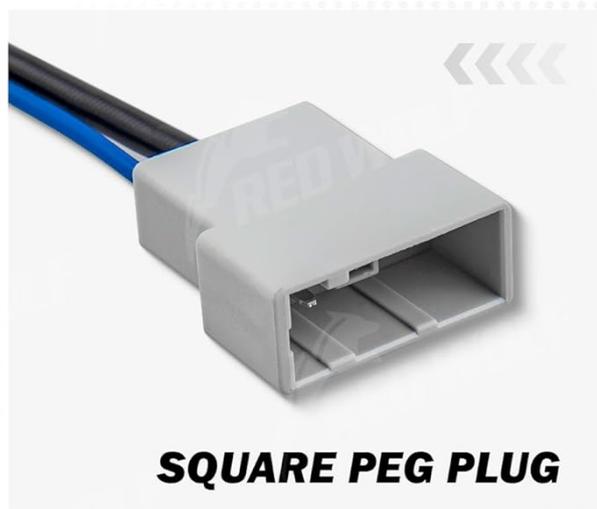
Upgraded RED WOLF radio wire harness features.

4. INSTALLATION INSTRUCTIONS

Follow these general steps for installing your RED WOLF wiring harness. Professional installation is recommended if you are unfamiliar with car audio wiring.

1. **Disconnect Battery:** Before starting any electrical work, disconnect the negative terminal of your vehicle's battery to prevent electrical shorts.

2. **Remove Factory Radio:** Carefully remove your vehicle's factory radio from the dashboard. Refer to your vehicle's service manual for specific instructions on panel removal.

3. **Identify Factory Connectors:** Locate the factory wiring harness and antenna connector that were plugged into your original radio.

4. **Connect Aftermarket Radio Wires:** Match the wires from the RED WOLF 20-pin harness to the corresponding wires on your aftermarket radio's harness. Typically, colors will match (e.g., yellow to yellow for constant power, red to red for accessory power, black to black for ground). Use crimp connectors, solder, or other secure wiring methods.

5. **Connect Antenna Adapter:** Plug the RED WOLF antenna adapter into the vehicle's factory antenna cable and then into the antenna input on your aftermarket radio.

6. **Connect Harness to Vehicle:** Plug the RED WOLF 20-pin harness into the vehicle's factory wiring connector.

7. **Test Connections:** Reconnect the vehicle's battery. Turn on the ignition and test the aftermarket radio's functionality (power, sound from all speakers, radio reception, and any steering wheel controls if applicable).

8. **Secure and Reassemble:** Once all functions are verified, carefully tuck away excess wiring, secure the radio in the dashboard, and reassemble any removed panels.

Important Note: The pinout and function of wires on this radio wiring might differ from factory or aftermarket radio wiring. Always refer to the installation instructions provided with your aftermarket radio and the wiring diagrams below to ensure correct connections.

No Need To Remove The Power Cord And Just Screw Terminals to Fix The Power Cord In Place.

Visual guide to the installation process.
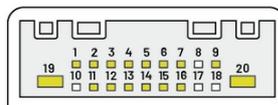
RED WOLF radio wiring connector plug detail.

4.1 Nissan 20-Pin Radio Wire Connector (Speaker / Power Wiring Pin Assignments)

Pin	Function	Wire Harness Color	Pin	Function	Wire Harness Color
1	Amplifier ON signal	Blue	11	Right Front Speaker +	Gray
2	Left Front Speaker +	White	12	Right Front Speaker –	Gray/Black
3	Left Front Speaker –	White / Black	13	Right Rear Speaker +	Purple
4	Left Rear Speaker +	Green	14	Right Rear Speaker –	Purple/Black
5	Left Rear Speaker –	Green / Black	15	Steering switch signal ground	Black
6	Steering switch signal A Keep pressing SOURCE switch 0.2 V Keep pressing SEEK UP switch 1.0 V Keep pressing VOL UP switch 2.2 V Except for above 3.3 V	Brown	16	Steering switch signal B Keep pressing SEEK DOWN switch 1.0 V Keep pressing VOL DOWN switch 2.2 V Except for above 3.3 V	Orange / White
7	ACC power supply	Red	17	/	/
8	/	/	18	/	/
9	Illumination control signal (+)	Orange	19	Battery power supply	Yellow
10	/	/	20	Ground	Black

Nissan 20-Pin Radio Wire Connector Diagram.

Pin	Function	Wire Harness Color	Pin	Function	Wire Harness Color
1	Amplifier ON signal	Blue	11	Right Front Speaker +	Gray
2	Left Front Speaker +	White	12	Right Front Speaker -	Gray / Black
3	Left Front Speaker -	White / Black	13	Right Rear Speaker +	Purple
4	Left Rear Speaker +	Green	14	Right Rear Speaker -	Purple / Black
5	Left Rear Speaker -	Green / Black	15	Steering switch signal ground	Black
6	Steering switch signal A (Keep pressing SOURCE switch 0.2 V, Keep pressing SEEK UP switch 1.0 V, Keep pressing VOL UP switch 2.2 V, Except for above 3.3V)	Brown	16	Steering switch signal B (Keep pressing SEEK DOWN switch 1.0 V, Keep pressing VOL DOWN switch 2.2 V, Except for above 3.3V)	Orange / White
7	ACC power supply	Red	17	/	/
8	/	/	18	/	/
9	Illumination control signal (+)	Orange	19	Battery power supply	Yellow
10	/	/	20	Ground	Black

4.2 Subaru 20-Pin Radio Wire Connector (Speaker / Power Wiring Pin Assignments)
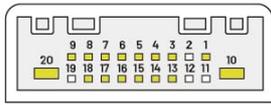
Pin	Function	Wire Harness Color	Pin	Function	Wire Harness Color
1	Illumination +	Orange	11	/	/
2	/	/	12	/	/
3	+12 Volt Accessory (switched)	Red	13	Steering Wheel Controls (SWC2+)	Orange / White
4	Steering Wheel Controls (SWC1+)	Brown	14	Steering Wheel Controls – (common)	Black
5	Left Rear Speaker–	Green / Black	15	Right Rear Speaker –	Purple / Black
6	Left Rear Speaker +	Green	16	Right Rear Speaker +	Purple
7	Left Front Speaker –	White / Black	17	Right Front Speaker –	Gray / Black
8	Left Front Speaker +	White	18	Right Front Speaker +	Gray
9	Antenna Booster Amplifier Power +	Blue	19	/	/
10	Ground	Black	20	+12 Volt Battery (Memory)	Yellow

Subaru 20-Pin Radio Wire Connector Diagram.

Pin	Function	Wire Harness Color	Pin	Function	Wire Harness Color
1	Illumination +	Orange	11	/	/
2	/	/	12	/	/
3	+12 Volt Accessory (switched)	Red	13	Steering Wheel Controls (SWC2+)	Orange / White

Pin	Function	Wire Harness Color	Pin	Function	Wire Harness Color
4	Steering Wheel Controls (SWC1+)	Brown	14	Steering Wheel Controls - (common)	Black
5	Left Rear Speaker -	Green / Black	15	Right Rear Speaker -	Purple / Black
6	Left Rear Speaker +	Green	16	Right Rear Speaker +	Purple
7	Left Front Speaker -	White / Black	17	Right Front Speaker -	Gray / Black
8	Left Front Speaker +	White	18	Right Front Speaker +	Gray
9	Antenna Booster Amplifier Power +	Blue	19	/	/
10	Ground	Black	20	+12 Volt Battery (Memory)	Yellow

5. OPERATING YOUR AFTERMARKET RADIO

Once the RED WOLF wiring harness and antenna adapter are correctly installed, your aftermarket radio should function as intended. The harness provides the necessary power, ground, and speaker connections, allowing your new head unit to operate. Refer to your aftermarket radio's specific user manual for detailed operating instructions, including tuning, media playback, and advanced features.

6. MAINTENANCE

The RED WOLF wiring harness is designed for durability and requires minimal maintenance. Ensure all connections remain secure and free from moisture or excessive heat. Periodically inspect visible wiring for any signs of wear or damage. If any issues arise, refer to the troubleshooting section or consult a professional.

7. TROUBLESHOOTING

- **No Power to Radio:**
  - Check the vehicle's fuse box for any blown fuses related to the radio or accessory power.
  - Verify that the yellow (constant 12V) and red (accessory 12V) wires from the harness are correctly connected to the aftermarket radio and receiving power.
  - Ensure the black (ground) wire is securely connected to a good chassis ground.

- **No Sound from Speakers:**
  - Confirm that all speaker wires (positive and negative for each speaker) are correctly matched and connected between the harness and the aftermarket radio.
  - Check the aftermarket radio's settings to ensure speakers are enabled and not muted.
  - If your vehicle has a factory amplifier, ensure the blue (amplifier remote turn-on) wire is connected.

- **Poor Radio Reception:**
  - Ensure the antenna adapter is securely connected to both the vehicle's antenna cable and the aftermarket radio's antenna input.
  - Verify that the blue wire on the antenna adapter (if present) is connected to the aftermarket radio's power antenna or amplifier remote wire.

- **Steering Wheel Controls Not Working:**
  - This harness provides connections for SWC. An additional steering wheel control interface (sold separately)

may be required for full functionality with your aftermarket radio.
- Ensure the SWC wires from the harness are correctly connected to the SWC interface, and the interface is properly programmed for your vehicle and radio.

8. SPECIFICATIONS

Feature	Specification
Brand	RED WOLF
Material	Copper (Pure Copper Core)
Connector Type	20-pin
Wire Diameter	0.5 Millimeters
Item Weight	1.76 ounces (0.05 Kilograms)
Package Dimensions	9.33 x 3.62 x 0.63 inches

9. OFFICIAL PRODUCT VIDEO

Watch this official video from RED WOLF for a visual overview of the radio harness and antenna adapter.

Official RED WOLF video demonstrating the Radio Harness and Antenna Adapter for Nissan and Infiniti vehicles.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please refer to the official RED WOLF website or contact their customer service directly. Details are typically available on the product packaging or the manufacturer's website.