Junsun SF20250921

Junsun Car Radio Stereo User Manual

For Dodge RAM 2002-2005 (Model SF20250921)

1. Product Overview

This manual provides instructions for the Junsun 4Core 64GB Car Radio Stereo, designed for Dodge RAM models from 2002 to 2005. This unit operates on Android 13 and integrates features such as Wireless CarPlay, Android Auto, Bluetooth, WiFi, GPS navigation, and support for a backup camera. It offers a high-definition visual experience with a 1280x720 resolution display.

2. Package Contents

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- Junsun 9-inch Car Radio Stereo Unit
- RCA Cable
- Power Cable
- Screwdriver
- Can Bus Decoder
- Crowbar (Pry Tool)
- Reversing Line (for backup camera)
- Antenna
- Antenna Adapter Cable
- USB Cables (x2)
- Speaker
- Microphone
- GPS Module
- Backup Camera (if included in your specific package)

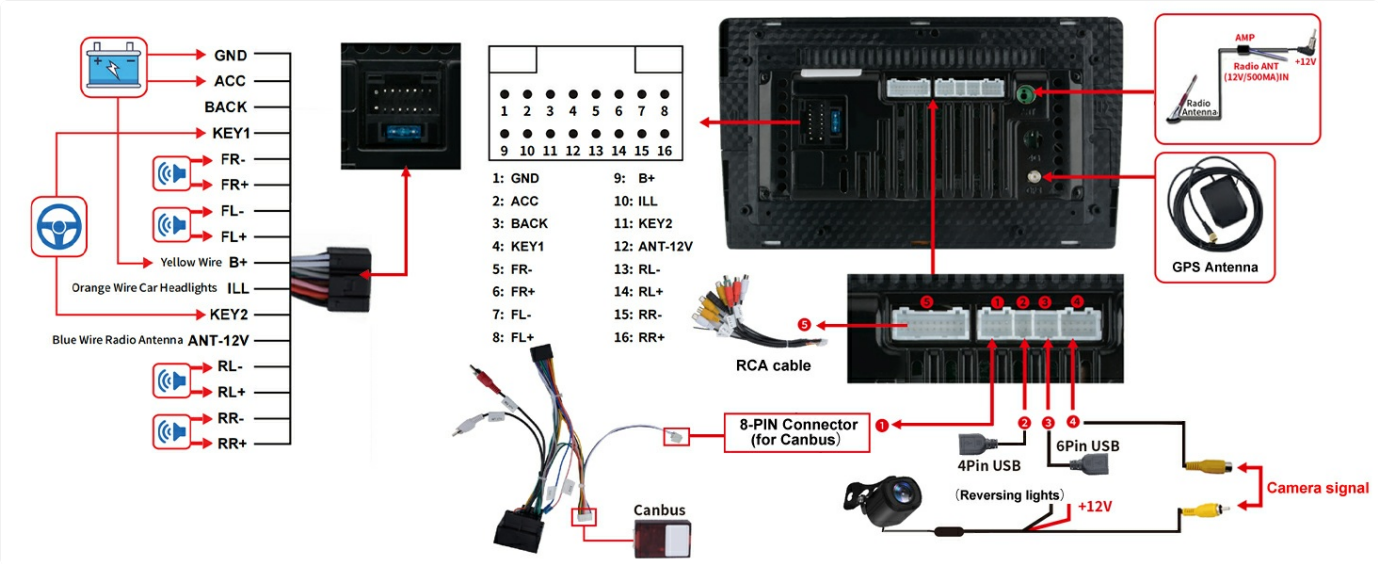


Figure 2.1: Included components in the Junsun car radio stereo package.

3. Installation Guide

3.1 Applicable Vehicles

This car radio stereo is specifically designed for Dodge RAM models manufactured between 2002 and 2005.



Figure 3.1: Junsun car radio stereo installed in a Dodge RAM 2002-2005 dashboard.

3.2 General Installation Notes

- Professional installation is recommended due to the complexity of vehicle wiring.
- Ensure the vehicle's battery is disconnected before beginning installation to prevent electrical damage.
- Refer to your vehicle's service manual for specific dashboard disassembly instructions.

3.3 Wiring Considerations

Careful attention to wiring is crucial for proper function. The provided wiring harness is designed for compatibility, but some vehicle-specific adjustments may be necessary, especially for older models.

- **Power Up Issues:** If the unit does not power on after installation, check the ACC (Accessory) wire. This wire (often red) needs to receive 12V power when the ignition is on. You may need to locate the ACC wire on your truck's stereo harness and splice it into the appropriate wire on the unit's harness.
- **No Sound:** If there is no sound after installation and your car's plug matches the example shown in Figure 3.2, an additional power harness may be required. Contact customer support for assistance.

- **Reverse Camera Activation:** For the reverse camera to activate automatically, the 'Reverse' wire on the unit's harness must be correctly connected to your vehicle's reverse light circuit.



Figure 3.2: Example of a car plug. If your plug matches and there is no sound, an additional power harness may be needed.

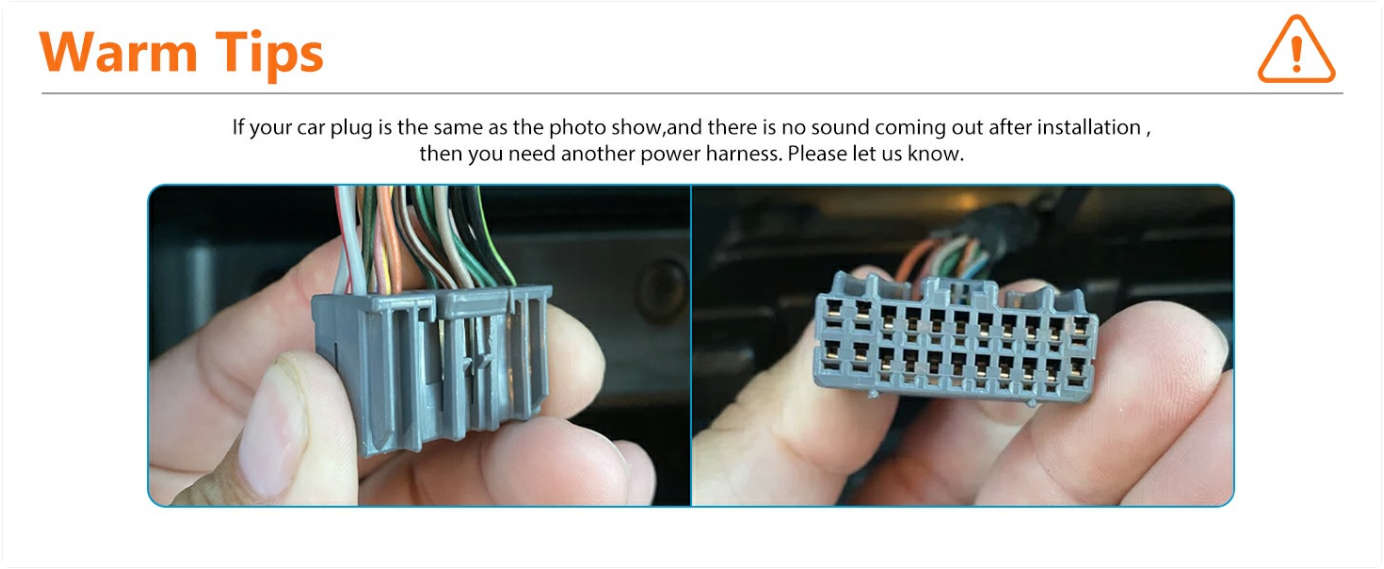


Figure 3.3: Comprehensive wiring diagram for the unit.

4. Basic Operation

4.1 Power On/Off

The unit will typically power on automatically with the vehicle's ignition. To manually power off or restart, press and hold the power button on the unit's front panel.

4.2 Touchscreen Interface

Navigate the system using the capacitive touchscreen. Swipe, tap, and pinch gestures are supported for various functions, similar to a smartphone or tablet.

4.3 Steering Wheel Control

If your vehicle supports steering wheel controls, connect the appropriate wires (KEY1, KEY2) as per the wiring diagram (Figure 3.3). Access the system settings to configure and map your steering wheel buttons to control functions like volume, track skipping, and mode selection.

5. Features and Functions

5.1 Android 13 Operating System

The unit runs on the Android 13 operating system, providing a familiar and intuitive interface. This allows for smooth operation and access to a wide range of applications from the Application Store, similar to a smartphone.

5.2 Wireless CarPlay & Android Auto

Connect your iPhone or Android phone wirelessly or via a wired connection to access CarPlay or Android Auto. This feature allows seamless integration of your phone's address book, notifications, messages, map navigation, and music directly on the stereo's display.



Figure 5.1: Wireless CarPlay and Android Auto interfaces.

5.3 GPS Navigation

The unit supports GPS navigation with built-in offline North America maps. After connecting to WiFi, you can also use online

mapping services. The GPS module ensures accurate positioning and route guidance.



Figure 5.2: GPS Navigation interface with map and app icons.

5.4 WiFi Connectivity

Connect the unit to a WiFi network to install or delete Android applications from the Application Store, browse websites, and stream videos. This expands the entertainment and utility options of your car stereo.



Figure 5.3: WiFi connectivity for apps and online content.

5.5 Bluetooth Functionality

Pair your phone via Bluetooth for hands-free calling and audio streaming. The unit comes with an external microphone for clear voice pickup, and calls are routed through your car's speakers. Fast matching with your phone ensures quick connectivity.



Figure 5.4: Bluetooth interface for calls and music.

5.6 FM/AM Radio

The product features FM/AM radio functionality with a digital display for precise and easy tuning. It provides access to news, music, and live weather broadcasts.



Figure 5.5: FM Radio interface.

5.7 Reversing Camera Support

When the vehicle is shifted into reverse gear, the unit automatically displays the rearview image from the connected backup camera, providing parking assistance and enhancing safety.

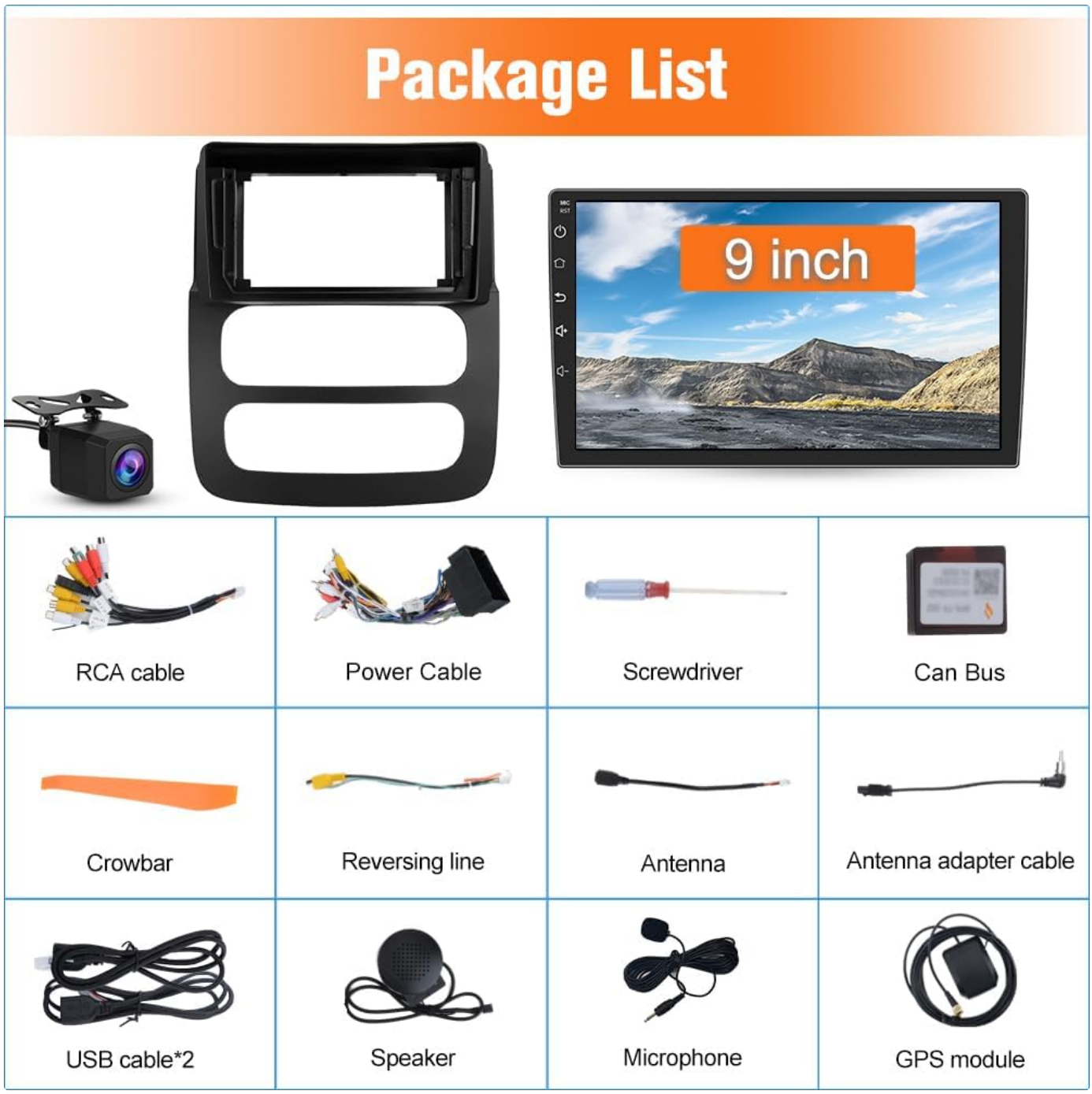


Figure 5.6: Reversing camera display.

5.8 High-Definition Visual Experience

The 1280x720 resolution display delivers clear image quality with accurate colors, making navigation, entertainment, and rearview imagery immersive.

5.9 Built-in DSP

The integrated Digital Sound Processor (DSP) allows for advanced audio tuning and customization, enhancing the sound quality through your vehicle's speakers.



Figure 5.7: Built-in DSP for enhanced audio.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the screen and unit exterior. Avoid abrasive cleaners or solvents.
- **Software Updates:** Periodically check for software updates through the system settings or Junsun's official website to ensure optimal performance and access to new features.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

7. Troubleshooting

7.1 Common Issues and Solutions

Issue	Possible Cause	Solution
Unit does not power on.	Incorrect ACC (Accessory) wire connection.	Ensure the red ACC wire on the unit's harness is connected to a 12V switched power source (e.g., vehicle's ACC wire). Refer to Figure 3.3.
No sound from speakers.	Incorrect speaker wiring; incompatible vehicle plug requiring additional harness.	Verify speaker wire connections. If your vehicle's plug matches Figure 3.2, an additional power harness may be needed. Contact support.
Backup camera does not display.	Incorrect 'Reverse' wire connection; camera not powered.	Connect the 'Reverse' wire on the unit's harness to the vehicle's reverse light circuit. Ensure the camera receives power.
Poor GPS signal.	GPS antenna improperly placed or obstructed.	Ensure the GPS antenna is mounted in a clear location, free from metal obstructions, typically on the dashboard or under the windshield.
Bluetooth connection issues.	Phone not in pairing mode; interference.	Ensure your phone's Bluetooth is on and discoverable. Restart both the unit and your phone. Clear previous pairings if necessary.

8. Specifications

Feature	Detail
Brand	Junsun
Model Name	SF20250921
Operating System	Android 13
Memory Storage Capacity	64 GB
Screen Size	9 Inches
Display Type	LCD, LED
Touch Screen Type	Capacitive
Resolution	1280x720
Connectivity Technology	Bluetooth, WiFi
Special Features	Wireless CarPlay, Android Auto, GPS Navigation, FM/AM Radio, Steering Wheel Control, Backup Camera Support, Built-in DSP
Map Type	North America (offline support)
Vehicle Service Type	Truck (Dodge RAM 2002-2005)
Mounting Type	Dashboard Mount
Item Weight	2.09 Kilograms

9. Warranty and Support

9.1 Manufacturer's Warranty

This Junsun car radio stereo unit is covered by a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Junsun customer support:

Email: Junsun-US@outlook.com

Please include your product model (SF20250921) and a detailed description of your issue when contacting support.



Figure 9.1: Junsun Customer 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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

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.

Submit question