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› [Junsun](#) /

› [Junsun Qualcomm 8-Core Car Radio Stereo for Dodge Ram 2013-2019: User Manual](#)

Junsun JS-US-GT614DXRAM319

Junsun Qualcomm 8-Core Car Radio Stereo User Manual

Model: JS-US-GT614DXRAM319 for Dodge Ram 2013-2019 (Manual AC)

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Junsun Qualcomm 8-Core Car Radio Stereo. This advanced infotainment system is designed specifically for Dodge Ram 1500, 2500, and 3500 models from 2013 to 2019 equipped with manual air conditioning. It features a 10.6-inch HD IPS touchscreen, a powerful Qualcomm 6125 chip, 4GB RAM, 64GB ROM, built-in 4G LTE, Wireless CarPlay, Android Auto, GPS navigation, Wi-Fi, Bluetooth, and support for steering wheel controls.

2. SAFETY INFORMATION

- **Professional Installation Recommended:** Due to the complexity of vehicle electrical systems, professional installation is highly recommended to prevent damage to the unit or your vehicle.
- **Vehicle Compatibility:** Ensure this unit is compatible with your specific vehicle model and year (Dodge Ram 2013-2019 with Manual AC). Installing it in an incompatible vehicle may cause malfunctions.
- **Driving Safety:** Do not operate the unit in a way that distracts you from driving. Always prioritize road safety.
- **Power Supply:** Connect the unit only to a 12V DC power supply with a negative ground.
- **Avoid Moisture:** Do not expose the unit to water or excessive moisture.
- **Temperature:** Operate the unit within the specified temperature range. Extreme temperatures can affect performance.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Head Unit (10.6-inch display)
- Frame (for Dodge Ram 2013-2019)
- Wire Cables (Power Cable, RCA Cable, Reversing Line)
- Crowbar
- Screwdriver
- Can Bus Decoder

- Antenna
- Antenna Adapter Cable
- USB Cables (x2)
- Speaker
- Microphone
- GPS Module



Figure 3.1: All components included in the Junsun Car Radio Stereo package.

4. SETUP AND INSTALLATION

This section outlines the general steps for installing your Junsun car radio stereo. It is crucial to ensure your vehicle is compatible before beginning installation.

4.1. Compatibility Check

This unit is designed for Dodge Ram 1500, 2500, and 3500 models manufactured between 2013 and 2019. It is specifically for vehicles with **manual air conditioning controls**. It is not compatible with vehicles equipped with automatic climate control systems.



Figure 4.1: Visual guide for compatibility with Dodge Ram 2013-2018 manual AC. The top row shows a successful installation, while the bottom row indicates incompatibility with automatic AC.

4.2. Wiring Diagram

Refer to the following diagram for proper connection of all cables. Incorrect wiring can damage the unit or vehicle electronics.



Figure 4.2: Main wiring connections for the head unit, including RCA, power, GPS, 4G, and radio antenna cables.

4.3. General Installation Steps (Overview)

1. **Disconnect Battery:** Before starting, disconnect the vehicle's negative battery terminal to prevent electrical shorts.
2. **Remove Original Unit:** Carefully remove the factory radio and trim using the provided crowbar and screwdriver.
3. **Connect Wiring:** Connect the new wiring harness, Can Bus decoder, GPS module, 4G antenna, and radio antenna to the Junsun head unit. Ensure all connections are secure.
4. **Test Connections:** Before fully mounting, reconnect the battery and briefly test the unit's basic functions (power on, audio, touchscreen responsiveness).
5. **Mount New Unit:** Secure the Junsun head unit into the dashboard opening using the provided frame and mounting hardware.
6. **Reassemble Dashboard:** Reinstall any removed trim pieces.
7. **Final Check:** Perform a comprehensive test of all features, including CarPlay/Android Auto, navigation, Bluetooth, and steering wheel controls.

5. OPERATING INSTRUCTIONS

5.1. Display and User Interface

The unit features a 10.6-inch HD IPS touchscreen with a 1280x720 resolution, providing clear visuals and responsive touch control. The Android operating system offers a familiar interface for accessing applications and settings.



Figure 5.1: High-definition touch screen interface and customizable button backlighting.

5.2. System Performance

Powered by a Qualcomm 6125 8-core chip, the system includes 4GB of RAM and 64GB of ROM, running on the Android 13.0 operating system. This configuration ensures smooth multitasking and ample storage for applications and media.



Figure 5.2: Qualcomm 8-core 6125 chip architecture and system specifications.

5.3. Connectivity

- **4G LTE Network:** Insert a SIM card into the designated slot to enable high-speed internet access. This allows for real-time traffic updates, online navigation, and streaming media without buffering.
- **Wi-Fi:** The unit supports 5G dual-band Wi-Fi (2.4G + 5G) for stable and fast wireless connections.
- **Bluetooth 4.0:** Connect your smartphone for hands-free calling, audio streaming, and multi-device connectivity. The dual-channel Bluetooth ensures stable performance.



Figure 5.3: 4G network support via SIM card for internet access.



Figure 5.4: Dual Channel Bluetooth interface for music and calls.

5.4. Wireless CarPlay and Android Auto

Enjoy seamless integration with your smartphone using Wireless CarPlay and Android Auto. Your phone will automatically connect when you enter the vehicle, providing access to navigation, music, messages, and voice control without cables.

5.5. GPS Navigation

The unit features precise GPS navigation. A built-in high-precision gyroscope works with the Qualcomm 6125 chip's GNSS positioning technology to maintain accurate navigation even in areas with weak GPS signals, such as tunnels or dense cityscapes.



Figure 5.5: Gyroscope functionality for improved navigation accuracy.

5.6. Audio Features

A professional Digital Signal Processor (DSP) is built-in, allowing for multi-band EQ adjustments to customize your sound profile. The unit also includes a fully integrated RDS/AM/FM radio with automatic station search and storage.



Figure 5.6: DSP audio settings for sound customization.

5.7. Steering Wheel Controls (SWC)

The system supports your vehicle's original steering wheel controls, allowing you to manage volume, switch tracks, and

activate navigation functions safely without taking your hands off the wheel.

5.8. Rear Camera and Climate Control Integration

The unit integrates with your original rear camera system, automatically displaying a clear view when reversing. It also accurately integrates with your vehicle's manual climate control, allowing you to adjust AC and airflow directly from the large screen.



Figure 5.7: Overview of key operational features including CarPlay, GPS, SWC, and FM/AM radio.

6. MAINTENANCE

- **Screen Cleaning:** Use a soft, lint-free cloth to clean the touchscreen. For stubborn smudges, lightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials.
- **Software Updates:** Periodically check for software updates to ensure optimal performance and access to new features. Updates can typically be found through the system settings or the manufacturer's website.
- **Avoid Extreme Temperatures:** Prolonged exposure to extreme heat or cold can affect the unit's lifespan and performance.
- **Cable Connections:** Occasionally check all cable connections to ensure they remain secure, especially after driving on rough terrain.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection, blown fuse, vehicle battery issue.	Check power cable connections. Inspect vehicle fuses. Ensure vehicle battery is charged.
No sound.	Volume too low, mute activated, speaker wiring issue.	Increase volume. Check if mute is active. Verify speaker wire connections.
Touchscreen unresponsive.	Software glitch, temporary freeze.	Perform a soft reset (refer to system settings for reset option). If issue persists, contact support.
GPS signal lost or inaccurate.	GPS antenna obstruction, weak signal area.	Ensure GPS antenna has a clear view of the sky. Drive out of tunnels or dense areas.
CarPlay/Android Auto not connecting.	Bluetooth/Wi-Fi off, phone compatibility, software issue.	Ensure phone's Bluetooth and Wi-Fi are on. Check phone compatibility. Restart both phone and head unit.

For issues not listed here or if solutions do not resolve the problem, please contact Junsun customer support.

8. SPECIFICATIONS

Model Name: JS-US-GT614DXRAM319

Screen Size: 10.6 Inches

Display Type: HD IPS Touchscreen

Processor: Qualcomm Snapdragon 6125 (8-Core)

RAM: 4 GB

Internal Storage (ROM): 64 GB

Operating System: Android 13.0 (Newest System)

Connectivity: Bluetooth 4.0, 4G LTE, 5G Dual-Band Wi-Fi (2.4G + 5G), USB, Ethernet

Special Features: Wireless CarPlay, Wireless Android Auto, GPS Navigation (with Gyroscope), DSP Audio Processor, Steering Wheel Control (SWC) Support, Rear Camera Input, Manual AC Integration, RDS/AM/FM Radio

Vehicle Service Type: Truck (Dodge Ram 1500/2500/3500, 2013-2019, Manual AC)

Map Type: North America

Item Weight: 4.77 pounds

Package Dimensions: 13.35 x 12.05 x 6.38 inches

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact the seller directly. Junsun provides technical support for its products.

9.1. Contacting Support

If you encounter any issues or have questions regarding your Junsun car radio stereo, you can reach out to the manufacturer's support team. Typically, support can be accessed through the seller's page on the platform where you made your purchase.



Figure 9.1: How to access technical support via the seller's page.

Look for the 'Junsun Car Electronics' seller information and click on the 'Ask a question' link to submit your inquiry. Please have your model number (JS-US-GT614DXRAM319) and purchase details ready when contacting support.