

LASERTAIL RAV4 2+32

LASERTAIL 8-Core Car Stereo Radio for Toyota RAV4 (2007-2012) User Manual

Model: RAV4 2+32

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1. SETUP

This section provides detailed instructions for installing your LASERTAIL 8-Core Car Stereo Radio in your Toyota RAV4 (2007-2012).

1.1 Package Contents

Before beginning installation, verify that all components are present in the package:

- Car radio and Frame (1)
- AHD rear view camera (1)
- Installation kit (1)
- Function instruction (1)
- Installation instruction (1)
- Power Cable
- Original car USB cable
- RCA Cable
- USB Cable (6-pin)
- USB Cable (4-pin)
- GPS Cable
- External Microphone
- Rearview camera extension cable
- Frame removal tool

Package List



Image: All components included in the LASERTAIL car stereo package, laid out on a white surface.

Package List



Image: A detailed view of the package list, showing the main unit and various cables and accessories.

1.2 Wiring and Installation

Follow these steps to connect the wiring harness and install the car stereo:

1. **Connect the Power Cable:** Attach the main power cable to the corresponding port on the head unit.

2. **Connect RCA Cables:** Plug in the RCA cables for audio and video inputs/outputs.
3. **Connect USB Cables:** Attach the 4-pin and 6-pin USB adapter cables to the head unit.
4. **Connect Radio Antenna:** Securely connect the radio antenna.
5. **Connect GPS Antenna:** Plug in the GPS antenna.
6. **Connect Microphone:** Attach the external microphone for hands-free calling.
7. **Connect Canbus (if applicable):** If your vehicle requires a Canbus, connect the 8-pin connector to the Canbus module, then connect the module to the head unit.
8. **Connect Reversing Video Input Cable:** Connect the reversing video input cable to the head unit.
9. **Connect Backup Camera:** Connect the AHD backup camera. The red cable from the camera should connect to the backup light "+" and the yellow signal cable to the reversing video input cable. The unit's Bluetooth & WiFi antenna and the Reverse Camera Cable are bundled together. Insert the camera RCA into the 10-pin port.
10. **Amplifier Connection:** If the original car has an amplifier, connect the two blue wires from the power cable. If not, this step is not necessary.



Image: Visual guide showing various Toyota RAV4 dash configurations and compatibility with the LASERTAIL car stereo.



Image: Diagram illustrating how the LASERTAIL car stereo retains original equipment manufacturer (OEM) functions such as door open hint, steering wheel controls, JBL system, A/C information, original USB, and rear camera.

Connect the wire harness

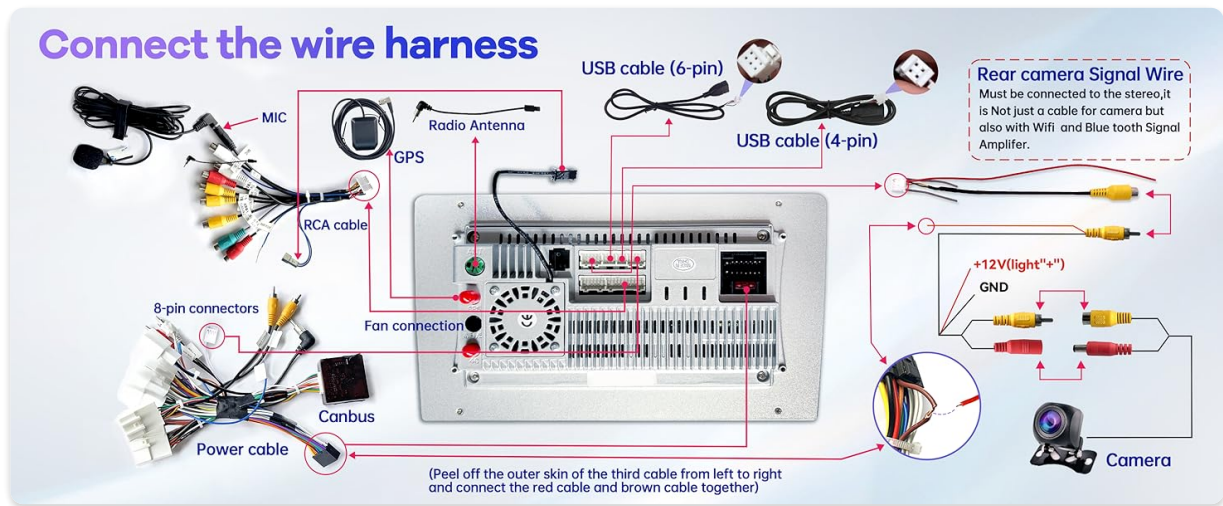


Image: Detailed wiring diagram showing how to connect the various cables and harnesses to the car stereo unit.

Connect the backup camera

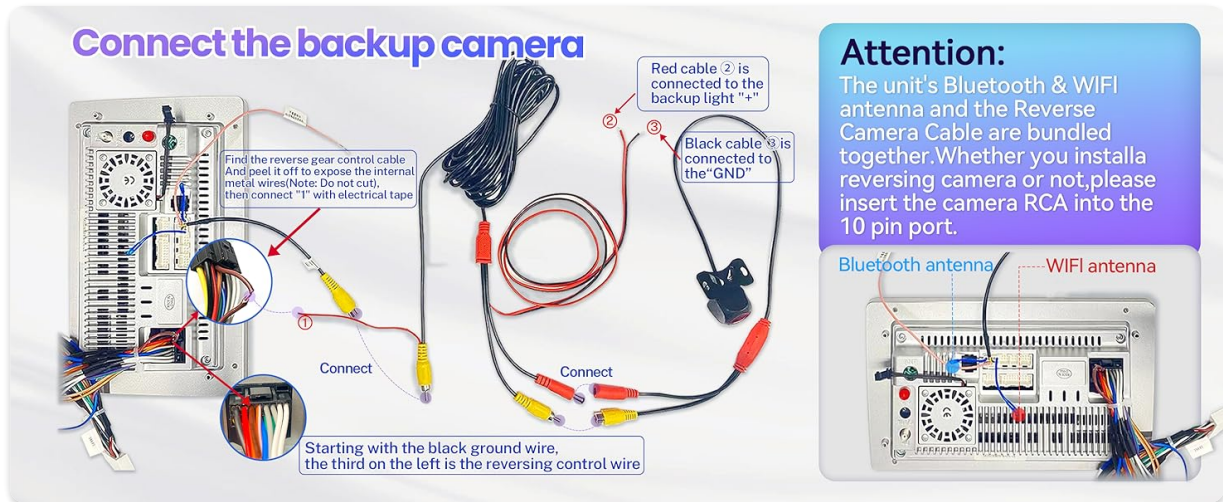


Image: Wiring diagram illustrating the correct connections for the backup camera, including power, ground, and video signal.

Installation Videos:

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Video: This video demonstrates the process of plugging the wiring harness into the car radio unit, showing each connection step-by-step.

Your browser does not support the video tag.

Video: This video provides a visual guide on connecting the backup camera to the car stereo system, detailing the necessary wiring.

2. OPERATING INSTRUCTIONS

Learn how to use the various features of your LASERTAIL 8-Core Car Stereo Radio.

2.1 Wireless CarPlay and Android Auto

Seamlessly integrate your smartphone with the car stereo for navigation, music, messages, and calls using Siri/Google voice control or the touchscreen.



Image: The car stereo display showing the CarPlay and Android Auto interfaces, highlighting seamless smartphone integration.



Image: A visual representation of Wireless CarPlay, Android Auto, and Mirror Link functionalities on the car stereo screen.

CarPlay/Android Auto Connection Videos:

Your browser does not support the video tag.

Video: This video demonstrates how to connect wireless Android Auto to the car stereo system.

Your browser does not support the video tag.

Video: This video demonstrates how to connect wireless CarPlay to the car stereo system.

2.2 GPS Navigation

The built-in GPS module supports online and offline map navigation, allowing you to plan your trips effectively.

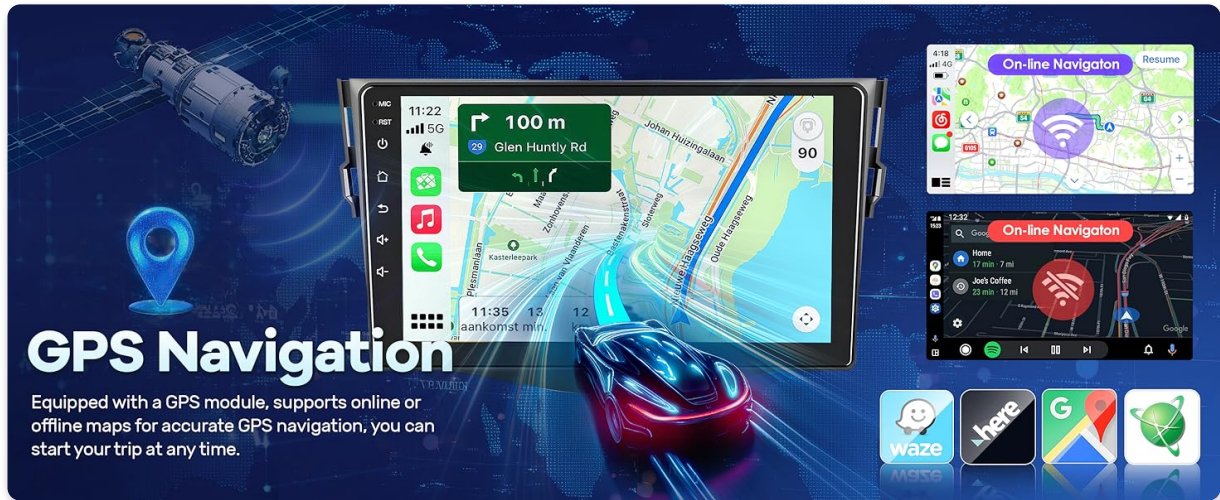


Image: The car stereo display showing the GPS navigation interface with map details and route information.

2.3 Bluetooth 5.0 and 5Ghz WiFi

Enjoy stable and clear hands-free calls with Bluetooth 5.0. Connect to 5Ghz WiFi to download apps from the Google Play Store at high speeds.

Image: Display showing Bluetooth 5.0 features, including hands-free calling and music playback.



Image: The car stereo screen demonstrating 5G Wifi connectivity for downloading various applications and streaming content.

2.4 Audio Features

The stereo includes a built-in AM/FM/RDS radio and a Digital Signal Processor (DSP) with 48 EQ bands, 8 sound effects, and bass boost for a customized audio experience.



AM/FM/RDS Radio

Selects your favourite radio station and get the latest news.

Image: The car stereo display showing the AM/FM/RDS radio interface, allowing selection of radio stations.



Digital Signal Processor

DSP and up to 48 Bands EQ 8 sound effects and sound field adjustment to DIY your favorite sound effect and enjoy your space

Image: The car stereo screen displaying the Digital Signal Processor (DSP) interface with various EQ settings and sound effects for audio customization.

Function Display Video:

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Video: This video showcases the various functions and display options of the Toyota RAV4 radio for models 2007-2011.

Common Settings Video:

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Video: This video guides users through some common settings that can be adjusted on the car stereo unit.

3. MAINTENANCE

To ensure optimal performance and longevity of your car stereo, follow these general maintenance guidelines:

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touchscreen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals or abrasive materials.
- **Software Updates:** Periodically check for software updates through the system settings to ensure you have the latest features and bug fixes.
- **Cable Connections:** Ensure all cables remain securely connected to prevent intermittent issues. Avoid pulling on cables forcefully.
- **Environmental Care:** Protect the unit from extreme temperatures, direct sunlight for prolonged

periods, and excessive moisture.

4. TROUBLESHOOTING

This section addresses common issues you might encounter with your car stereo. For persistent problems, please contact customer support.

4.1 Common Issues and Solutions

- **Steering Wheel Control Does Not Work:**
 - Check if the serial port cable (8-pin) is correctly inserted.
 - If there is a CANBUS box on the power cable, there is no need to learn the SWC. Check "Canbus agreement" in settings. If it is not there, you may need to learn the SWC.
- **Can Not Turn On:** Please refer to the installation instructions and contact technical support if the issue persists.
- **No Sound:**
 - Make sure you have connected the amplifier control wire.
 - Check that the "select canbus agreement" setting is correct.
 - Check the audio wiring for disconnection or poor contact.
- **Abnormal or Distorted Reverse Camera Display:** Go to **Setting > Reverse > Reversing system selection** and select "NTSC".
- **Reset Factory Settings:** Reset code is 7890. Some apps will be lost after reset; refer to the instruction manual for re-download or contact support. Resetting is generally not recommended.
- **Set Speed Unit (KPH-MPH):** Go to **Car Setting > Plugin > Speed unit**.
- **Change TEMP Unit:** Go to **Setting > Original > TEMP norm > Centigrade**.

Image: A troubleshooting guide detailing solutions for common issues like factory reset, speed unit settings, and temperature unit changes.

Troubleshooting

Steering wheel control does not work

- Check if the serial port cable (8-pin) is correctly inserted
- If there is a CANBUS box on the power cable, there is no need to learn the SWC, check "Canbus agreement" If it is not there, there is a need to learn the SWC

Can not turn on

- please refer to instruction and contact our technical support

No Sound

- Make sure you had connected the amplifier control wire.
- Check that the "select canbus agreement" setting is correct.
- Check the audio wiring for disconnection or poor contact.

If above method can not solve your problem, please contact our engineer through instruction with below information:
1. Order id 2. Car model 3. Details of the problem

Image: A troubleshooting guide addressing issues with steering wheel control, the unit not turning on, and lack of sound, with recommended checks.

Troubleshooting Video:

Your browser does not support the video tag.

Video: This video provides an essential troubleshooting guide to fix 90% of common issues encountered with the car stereo.

5. SPECIFICATIONS

Feature	Detail
Item Weight	3.94 pounds
Package Dimensions	11.73 x 9.65 x 6.02 inches
Item Model Number	6d7536b4-e1f2-49fa-81d9-50c1c491949c
Display Size	9 Inches
Screen Size	9 Inches
Operating System	Android 12
Processor	8-Core
RAM	2GB DDR4
ROM	32GB
Display Resolution	1280*720P
Connectivity Technology	USB, 5Ghz WiFi, Bluetooth 5.0
Special Features	Android Auto, Apple CarPlay, GPS Navigation, Touchscreen, DSP 48EQ, Split screen display, Voice Assistant, Mirror Link, Backup Camera
Audio Output Mode	Stereo
Compatible Devices	Smartphone
Control Method	Touch, Voice
Vehicle Service Type	SUV (Toyota RAV4 2007-2012)

Upgrade Higher Configuration

High-performance chips provides higher processing speeds and transfer rates.



Image: Visual representation of the 8-Core processor, 2GB RAM, and 32GB ROM specifications of the car stereo.

Upgrade Higher Configuration

High-performance chips provides higher processing speeds and transfer rates.



● **OURS**

8core



● **Others**

4core



Image: A graphic comparing the upgraded 8-core configuration of the LASERTAIL unit against a standard 4-core, highlighting performance improvements.



Image: A visual comparison of the 1280x720 HD IPS touch screen resolution against a general 1024x600 screen, emphasizing vivid visual experience.

6. WARRANTY

The LASERTAIL 8-Core Car Stereo Radio comes with a **1-Year Warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

7. SUPPORT

For technical assistance, troubleshooting, or any questions regarding your LASERTAIL 8-Core Car Stereo Radio, please contact our customer support team. You can find contact information in the included Function Instruction manual or by visiting the LASERTAIL store on Amazon.

When contacting support, please provide the following information:

- Order ID
- Car model and year
- Detailed description of the problem