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> LASERTAIL 8 Core Car Stereo Radio Instruction Manual for Toyota RAV4 2007-2012 (Model 0612 4+32G)

## LASERTAIL 0612 4+32G

# LASERTAIL 8 Core Car Stereo Radio Instruction Manual for Toyota RAV4 2007-2012 (Model 0612 4+32G)

Model: 0612 4+32G | Brand: LASERTAIL

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your LASERTAIL 8 Core Car Stereo Radio, designed specifically for Toyota RAV4 models from 2007 to 2012. This unit features an 8-core processor, Android 12 system, 9-inch 1280\*720P IPS HD touch screen, wireless Carplay and Android Auto, 5Ghz WiFi, GPS navigation, Bluetooth 5.0, DSP with 48-band EQ, and supports an AHD backup camera.

## 2. PACKAGE CONTENTS

Verify that all items listed below are included in your 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
- USB Cable (6-pin)
- USB Cable (4-pin)
- RCA cables
- Rearview camera video input cable
- Microphone Cable
- Canbus box
- GPS Antenna
- Frame removal tool

# AHD Backup Camera

- 1 Also provide AHD rear view camera to automatically and clearly display reversing images and lines
- 2 Support original camera



HD Image



IP68 Waterproof



Distance Guidellnes



170° Wide Angel

# Steering Wheel Control

Keep original control and easy to switch music, adjust volume and answer calls



Image: All components included in the LASERTAIL car stereo package, laid out for inspection.

## Troubleshooting

### Reset factory

- Reset code: 7890
- Some apps will lose after reset, please refer to the instruction to re-download or contact us for apk.
- Resetting is generally not recommended.

### Set the Speed Unit (KPH-MPH)

- Car Setting—Plugin—Speed unit

### Abnormal or distorted reverse camera display

- Setting - Reverse - Reversing system selection - Select "NTSC"

### Change TEMP Unit

- Setting - Original - TEMP norm - Centigrade

Image: Visual representation of the package contents, including cables, camera, and tools.

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Video: An unboxing video demonstrating the contents of the car stereo radio package for Toyota RAV4.

### 3. SETUP AND INSTALLATION

Careful installation is crucial for optimal performance. Refer to the provided installation instructions and diagrams. Professional installation is recommended.

#### 3.1 Connecting the Wire Harness

Connect the main power cable and other essential harnesses to the car stereo unit. Ensure all connections are secure.



Image: Detailed wiring diagram showing connections for power, USB, RCA, and other cables to the car stereo unit.

The power cable connects to the main power input on the back of the unit. The Canbus box, if applicable to your vehicle, should be connected to the corresponding port on the power cable.

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Video: Step-by-step guide on how to plug the harness to the car radio. This video demonstrates the correct connection points for various cables.

#### 3.2 Connecting the Backup Camera

The included AHD rear view camera provides enhanced safety during reversing. Connect the camera's video signal cable to the "CAM IN" port on the stereo unit. Ensure the camera's power wire is connected to the reverse light circuit for automatic activation.

# 1280\*720 IPS HD Touch Screen

## Enjoy vivid visual experience

**IPS**  
IPS Screen

  
High  
performance

  
Large screen

  
Touch



Image: Illustration of the AHD backup camera features, including HD image, IP68 waterproof rating, distance guidelines, and 170° wide angle. Shows the camera and its connection points.

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Video: Instructions on connecting the backup camera to the car stereo. This video details the wiring for the camera's power and video signal.

## Connect the wire harness

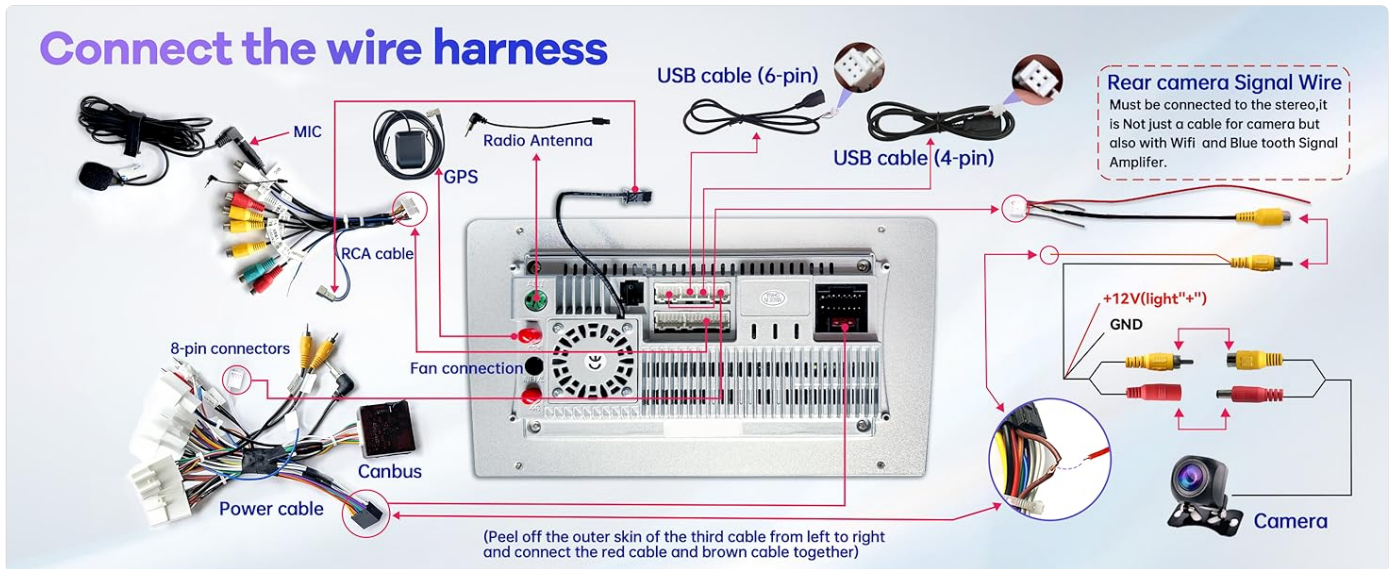


Image: Diagram illustrating the correct wiring for the backup camera, including connections to the reverse control line and the stereo's camera input.

### 3.3 GPS Antenna and USB Connections

Connect the GPS antenna to the dedicated GPS port on the rear of the unit. Position the antenna in a location with a clear view of the sky for optimal signal reception. Connect the provided USB cables to the USB ports for external device connectivity and data transfer.

## 4. OPERATING INSTRUCTIONS

### 4.1 Wireless Carplay & Android Auto

This unit supports wireless Apple Carplay and Android Auto. Connect your smartphone via Bluetooth to integrate phone features such as GPS navigation, music, phone contacts, and notifications directly onto the stereo screen.



Image: Display showing the Carplay and Android Auto interfaces on the car stereo, highlighting GPS navigation, phone calls, music, messages, and news functionalities.

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Video: Demonstration of how to connect wireless Carplay to the car stereo unit.

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Video: Demonstration of how to connect wireless Android Auto to the car stereo unit.

## 4.2 Bluetooth 5.0

The built-in dual Bluetooth 5.0 ensures stable hands-free phone calls and audio streaming. Pair your phone through the Bluetooth settings menu on the stereo.



Image: Visual representation of Bluetooth 5.0 functionality, showing seamless phone connection for calls and music playback.

### 4.3 GPS Navigation

The unit is equipped with a GPS module supporting both online and offline map navigation. Ensure the GPS antenna is properly connected for accurate positioning.



Image: Display of GPS navigation with online and offline map support, showing route guidance and various map applications.

### 4.4 Digital Signal Processor (DSP) & EQ

Utilize the built-in DSP and 48-band EQ to customize your audio experience. Adjust sound effects and sound field settings to achieve your preferred listening environment.

# Retain OEM Functions

Note: If your original vehicle does not have these features, they are not supported.



Image: Interface for the Digital Signal Processor (DSP) and 48-band Equalizer, allowing detailed audio customization.

## 4.5 Steering Wheel Control (SWC)

The unit retains original steering wheel control functionality. This allows for easy switching of music, volume adjustment, and answering calls, enhancing driving safety.



Image: Visual showing how the car stereo integrates with original steering wheel controls for convenient operation.

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Video: Guide on remapping steering wheel audio controls for the car stereo unit.

## 4.6 Other Features

- **5Ghz WiFi:** Connect to high-speed internet for app downloads and online content.
- **AM/FM/RDS Radio:** Select your favorite radio stations and receive the latest news.
- **Split Screen:** Use multiple applications simultaneously on the 9-inch HD touch screen.
- **Mirror Link:** Display your smartphone screen directly on the stereo.
- **Voice Assistant:** Utilize smart voice control for various functions.



Image: Display of 5Ghz WiFi connection, showing various apps like YouTube, Instagram, and TikTok running on the stereo.

# 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: Interface of the AM/FM/RDS radio, allowing selection of stations and access to news.

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Video: Demonstration of various functions of the car radio for Toyota RAV4 2007-2011.

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Video: Overview of some common settings and configurations available on the car stereo.

## 5. MAINTENANCE

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

- Keep the screen clean using a soft, lint-free cloth. Avoid abrasive cleaners.
- Ensure proper ventilation around the unit to prevent overheating. The built-in smart cooling fan helps manage temperature.
- Regularly check cable connections for security and wear.
- Keep the unit free from dust and debris.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter. For further assistance, please refer to the contact information provided in your product packaging or reach out to LASERTAIL customer service. When contacting support, please provide your order ID, car model, and a detailed description of the problem for efficient assistance.

### Common Issues & 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". If not, you may need to learn the SWC.
- **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.
- **Cannot Turn On:**
  - Please refer to the instruction manual and contact our technical support.

- **Abnormal or Distorted Reverse Camera Display:**

- Go to Settings > Reverse > Reversing system selection > Select "NTSC".

- **Reset Factory Settings:**

- Reset code: 7890. Some apps will be lost after reset; refer to the instruction manual or contact us for APKs. Resetting is generally not recommended.

- **Set Speed Unit (KPH-MPH):**

- Go to Car Setting > Plugin > Speed unit.

- **Change Temperature Unit:**

- Go to Setting > Original > TEMP norm > Centigrade.

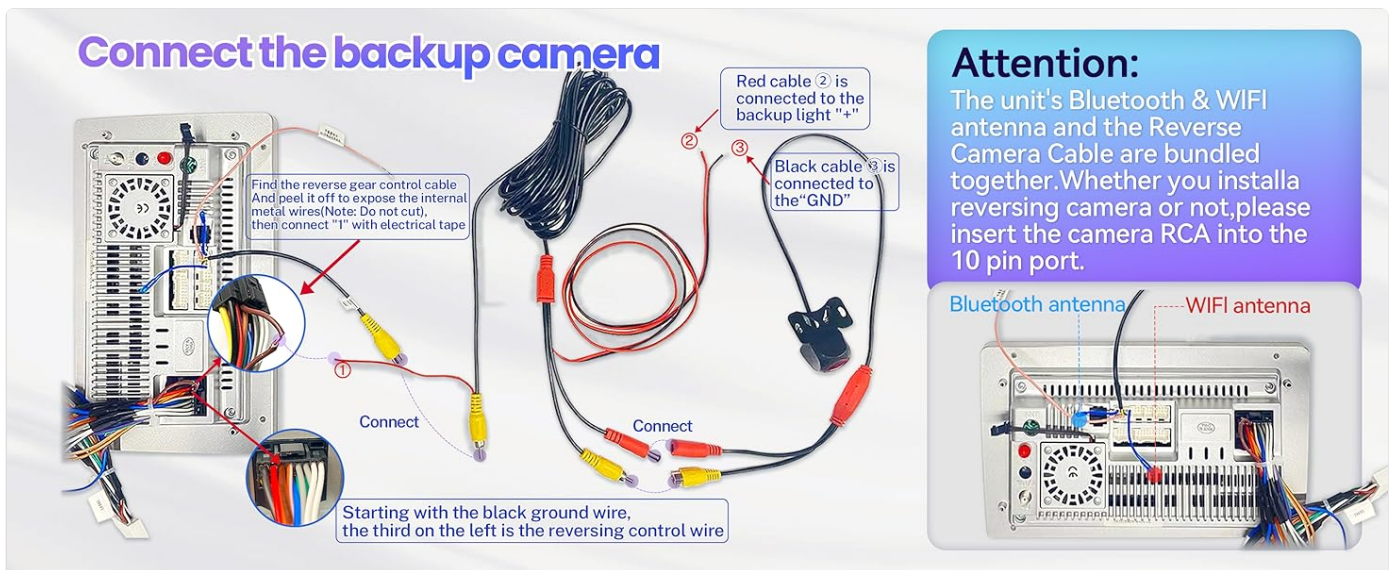


Image: Troubleshooting steps for common issues like factory reset, speed unit, and temperature unit settings.

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Video: A troubleshooting guide addressing common problems and solutions for the car stereo unit.

## 7. SPECIFICATIONS

<b>Brand</b>	LASERTAIL
<b>Model Number</b>	0612 4+32G (8 Core)
<b>Applicable Car Models</b>	Toyota RAV4 2007-2012 (JBL and non-JBL versions)
<b>Processor</b>	UIS7862 Octa-core
<b>Operating System</b>	Android 12
<b>RAM</b>	4GB DDR4
<b>ROM</b>	32GB
<b>Screen Size</b>	9 Inch
<b>Screen Resolution</b>	1280*720P IPS HD Touch Screen

<b>Connectivity Technology</b>	Bluetooth 5.0, 5Ghz Wi-Fi
<b>Special Features</b>	Android Auto, Apple CarPlay, GPS Navigation, DSP (48 EQ), Split Screen, Voice Assistant, Mirror Link, AHD Backup Camera
<b>Item Weight</b>	3.94 pounds
<b>Package Dimensions</b>	11.61 x 9.76 x 5.83 inches

## 8. WARRANTY AND SUPPORT

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For any issues or technical support, please refer to the contact information provided in your product packaging or reach out to LASERTAIL customer service. When contacting support, please provide your order ID, car model, and a detailed description of the problem for efficient assistance.