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> LASERTAIL 10.33 Inch Android 13 Car Radio User Manual for Toyota 4Runner (2009-2019)

## LASERTAIL 4Runner SR 4+64

# LASERTAIL 10.33 Inch Android 13 Car Radio User Manual

**Brand:** LASERTAIL | **Model:** 4Runner SR 4+64

For Toyota 4Runner 2009-2019

## 1. INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, and maintenance of your LASERTAIL 10.33 Inch Android 13 Car Radio. This head unit is designed to upgrade the infotainment system in Toyota 4Runner models from 2009 to 2019, offering features such as wireless Carplay, Android Auto, 5Ghz WiFi, GPS navigation, steering wheel control (SWC) support, and backup camera integration. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

## 2. PACKAGE CONTENTS

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

- Car radio and Frame (1 unit)
- 1080P Rear View Camera (1 unit)
- Installation Kit (1 set)
- Function Instruction (1 manual)
- Installation Instruction (1 manual)
- Power Cable
- Original Car USB Cable
- USB Cable (4-pin)
- USB Cable (6-pin)
- RCA Cable
- Back Camera Cable

- Microphone Cable
- Canbus Box
- GPS Antenna
- Tool (for panel removal)



Figure 2.1: Overview of all included accessories and cables.

### 3. INSTALLATION GUIDE

This section outlines the general installation process. For detailed vehicle-specific instructions, refer to the included installation manual and wiring diagrams.

#### 3.1. General Wiring Connections

Proper connection of all cables is crucial for the head unit's functionality. Ensure all connections are secure.



Figure 3.1: General wiring harness connections for the head unit.

### Video: How to Plug the Harness to the Car Radio

This video demonstrates the process of connecting the main wiring harness to the car radio, showing various cable connections including power, USB, RCA, microphone, GPS, and radio antenna.

### 3.2. Connecting the Backup Camera

The included 1080P backup camera enhances safety during reversing. Follow these steps for connection:

1. Connect the camera's power cable (red wire) to the backup light's positive (+) terminal.
2. Connect the camera's ground cable (black wire) to a suitable ground point.
3. Connect the camera's video signal cable (yellow RCA) to the 'Reversing video input cable' on the head unit's wiring harness.
4. Locate the reverse control line (usually a thin brown or purple wire labeled 'Reverse') on the head unit's power cable and connect it to the car's reverse light signal.



Figure 3.2: Detailed diagram for connecting the backup camera.

### Video: Connecting the Backup Camera

This video illustrates the steps for connecting the backup camera to the head unit and the vehicle's electrical system.

### 3.3. Vehicle-Specific Wiring Harness Selection

The correct wiring harness must be selected based on your Toyota 4Runner's year and whether it has a JBL sound system.

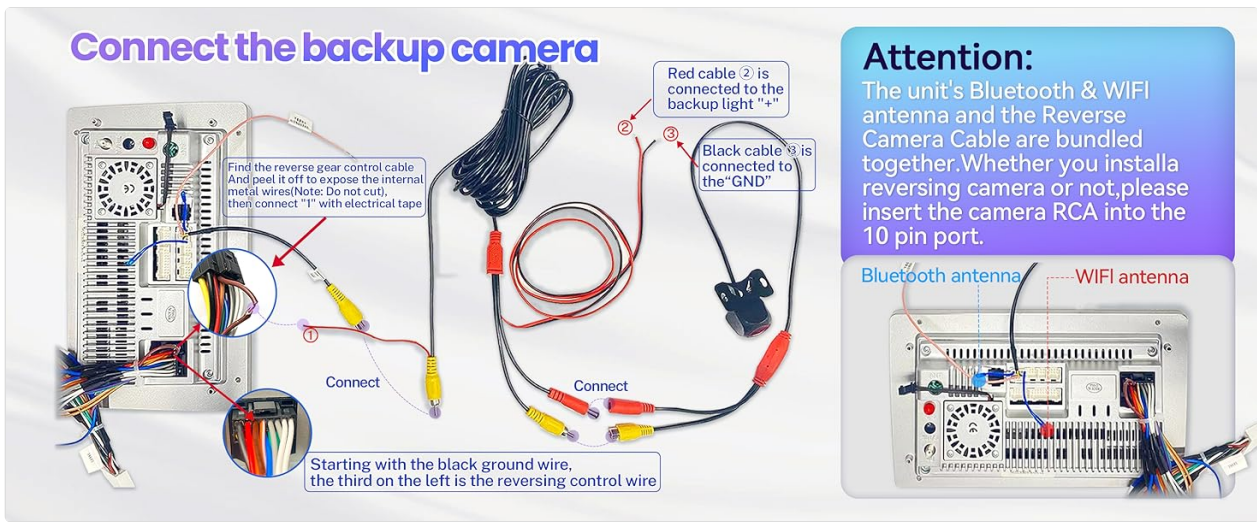


Figure 3.3: Wiring harness selection for Toyota 4Runner 2014-2019.

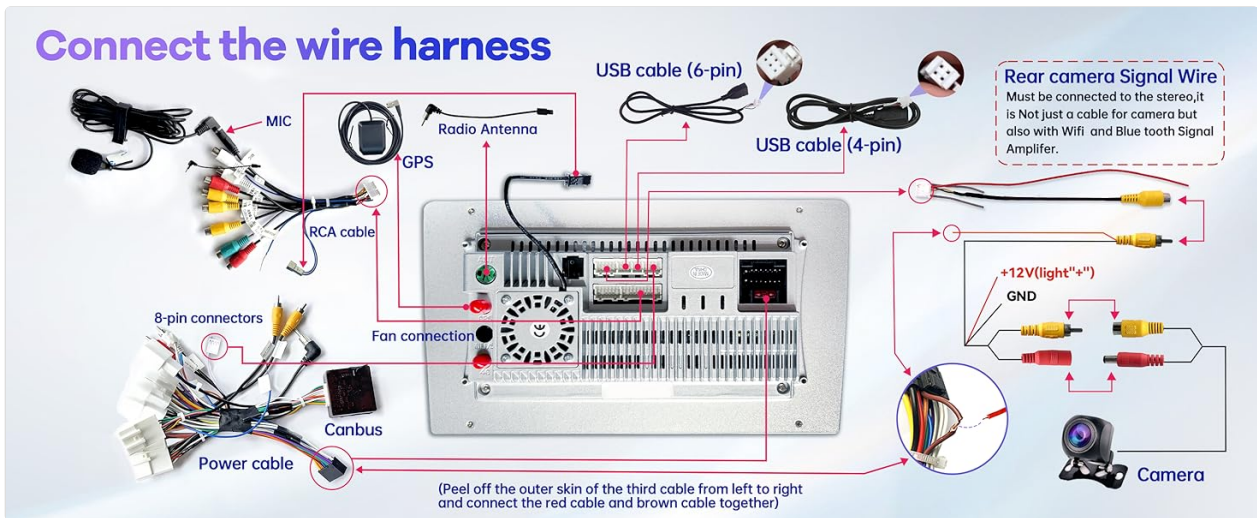


Figure 3.4: Wiring harness selection for Toyota 4Runner 2010-2013.

## 4. SETUP & INITIAL CONFIGURATION

After installation, perform the initial setup to optimize the head unit for your vehicle and preferences.

### Video: System Settings for LASERTAIL Toyota 4Runner Radio

This video guides you through various system settings, including protocol setup, speed unit, temperature unit, SWC, and camera settings.

#### 4.1. Protocol Setup

Access the 'Factory' settings (password: 8888) to select the correct vehicle protocol for full compatibility with your Toyota 4Runner.

#### 4.2. Change Speed Unit (KPH-MPH)

Navigate to 'Car Setting' > 'Plugin' > 'Speed unit' to switch between Kilometers Per Hour (KPH) and Miles Per Hour (MPH).

#### 4.3. Change Temperature Unit

Go to 'Setting' > 'Original' > 'TEMP norm' to select between Celsius and Fahrenheit for temperature display.

#### 4.4. Steering Wheel Control (SWC) Settings

If the previous/next buttons on your steering wheel are reversed, access 'Factory' settings (password: 123456) and adjust the SWC direction. Ensure the CANBUS box is correctly connected if your vehicle supports it.

## 4.5. Camera Settings

If the rear view camera image is abnormal, distorted, or not displaying correctly, go to 'Setting' > 'Reverse' > 'Reversing system selection' and choose 'NTSC'.

## 5. OPERATING INSTRUCTIONS

Explore the various features of your LASERTAIL Android 13 Car Radio.



Figure 5.1: Overview of key features including Bluetooth, 5G WiFi, DSP, GPS, Split Screen, AM/FM/RDS, and Steering Wheel Control.

### 5.1. Wireless Carplay

Connect your iPhone wirelessly to access navigation, music, messages, and calls via Siri voice control or the touchscreen.

#### Video: How to Connect Wireless Carplay

This video demonstrates the steps to connect your iPhone to the head unit for wireless Carplay functionality.

## **5.2. Wireless Android Auto**

Connect your Android phone wirelessly to use GPS navigation, music, messages, and calls through Google voice control or the touchscreen.

### **Video: How to Connect Wireless Android Auto**

This video shows how to establish a wireless Android Auto connection with your head unit.

## **5.3. Bluetooth 5.0**

The head unit features dual Bluetooth 5.0 for stable and clear hands-free calls and audio streaming. An external noise-canceling microphone is included for improved call quality.

## **5.4. GPS Navigation**

Utilize the built-in GPS module for online or offline map navigation. Supports various navigation apps from the Google Play Store.

## **5.5. AM/FM/RDS Radio**

Enjoy your favorite radio stations with the integrated AM/FM/RDS tuner.

## **5.6. DSP with 48-band EQ**

Customize your audio experience with the Digital Sound Processor (DSP) and 48-band equalizer, allowing for personalized sound profiles.

## **5.7. Split Screen Functionality**

Multitask by running two applications simultaneously on the 10.33-inch screen, such as navigation and music playback.

## **5.8. Steering Wheel Control (SWC)**

Retain your original steering wheel controls for easy access to music, volume, and call functions, allowing you to focus on driving.



Figure 5.2: Illustration of steering wheel control integration and backup camera view.

## 5.9. Retained Factory Functions

The head unit supports various original vehicle functions, including:

- Original steering wheel control
- Original JBL sound system (if applicable)
- Reverse camera (if original)
- Heated seat information
- Door open hint
- AC information

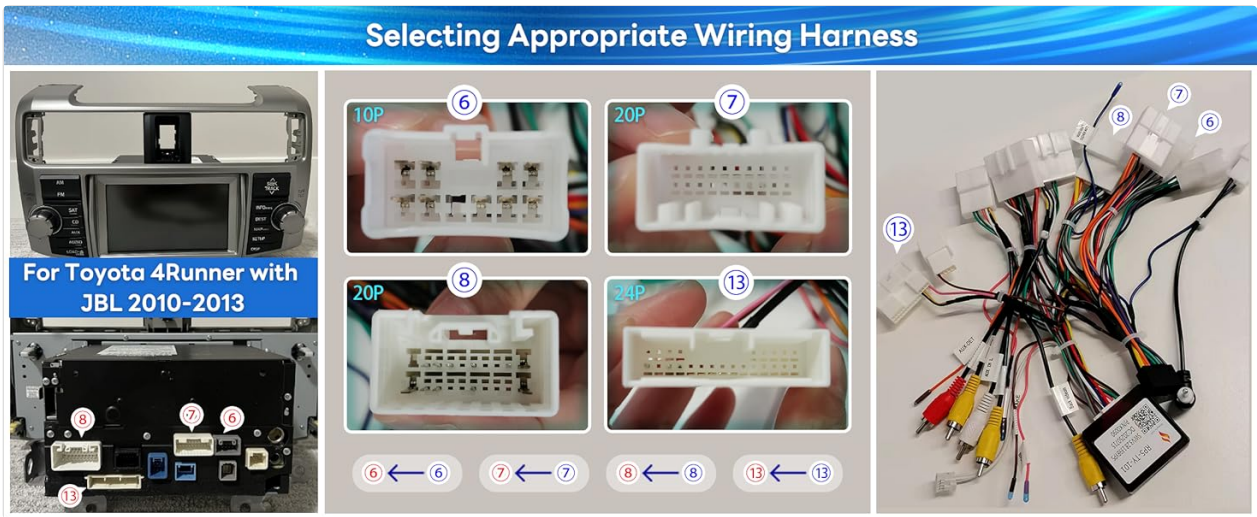


Figure 5.3: Visual representation of retained OEM functions.

## 6. MAINTENANCE

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

- **Cleaning:** Use a soft, dry cloth to clean the screen and unit. Avoid abrasive cleaners or solvents.
- **Temperature:** Avoid exposing the unit to extreme temperatures. The built-in cooling fan helps manage internal temperature.
- **Software Updates:** Periodically check for software updates to ensure the best performance and access to new features.



Figure 6.1: The head unit features a smart cooling fan to prevent overheating and extend service life.

## 7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

- **Cannot Turn On:** Please refer to the installation instructions and contact technical support if the issue persists.
- **No Sound:**
  - a. Ensure the amplifier control wire is connected.
  - b. Check that the 'select canbus agreement' setting is correct.
  - c. Verify the audio wiring for disconnection or poor contact.
- **Steering Wheel Control Does Not Work:**
  - a. Check if the serial port cable (8-pin) is correctly inserted.
  - b. If a CANBUS box is on the power cable, there is no need to learn SWC; check 'Canbus agreement'. If there is no CANBUS box, you need to learn the SWC.

- **Abnormal or Distorted Reverse Camera Display:** Go to 'Setting' > 'Reverse' > 'Reversing system selection' and select 'NTSC'.
- **Reset Factory:** Reset code is 7890. Some apps may be lost after reset; refer to instructions to re-download or contact support for APKs. Resetting is generally not recommended.

If the above methods do not resolve your problem, please contact our engineering support with your order ID, car model, and details of the problem.

## 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

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### 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

Figure 7.1: Troubleshooting steps for common issues.

## 8. SPECIFICATIONS

Feature	Detail
Operating System	Android 13
Processor	UIS7862 Octa-Core, 2.0GHz
RAM	4GB DDR4
ROM	64GB
Screen Size	10.33 Inches
Display Type	IPS HD Touch Screen
Display Resolution	1600*720P
Wireless Connectivity	5Ghz WiFi, Bluetooth 5.0
Navigation	Built-in GPS Module, North America Map Type
Audio Output Mode	Stereo, DSP with 48-band EQ, TDA7851 Amplifier Chip
Special Features	Wireless Carplay, Wireless Android Auto, Split Screen, Voice Assistant, Mirror Link, Smart Cooling Fan

Included Components	Car radio and Frame, 1080P Rear View Camera, Installation Kit, Function Instruction, Installation Instruction
Mounting Type	Dashboard Mount
Item Weight	5.63 pounds
Package Dimensions	16.18 x 11.26 x 6.34 inches



Figure 8.1: The 10.33-inch 1600x720 IPS HD touch screen provides a vivid visual experience.

# Upgrade Higher Configuration

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



Figure 8.2: High-performance 8-core processor with 4GB RAM and 64GB ROM for smooth operation.

## 9. WARRANTY & SUPPORT

Your LASERTAIL car radio comes with a 1-year manufacturer warranty. For technical support, installation assistance, or any other inquiries, please refer to the contact information provided in the included Function Instruction manual or reach out to the seller directly. Ongoing technical support is available to resolve issues and ensure a satisfactory user experience.