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› [Leadfan](#) /

› [Leadfan Android 12 Car Radio User Manual for Toyota RAV4 2013-2018 \(without JBL\)](#)

### Leadfan for RAV4 2013-2018 without JBL

# Leadfan Android 12 Car Radio User Manual

For Toyota RAV4 2013-2018 (without JBL Sound System)

[Introduction](#)   [Setup](#)   [Operating](#)   [Maintenance](#)   [Troubleshooting](#)   [Specifications](#)   [Warranty & Support](#)

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, and maintenance of your Leadfan Android 12 Car Radio. This unit is specifically designed for Toyota RAV4 models manufactured between 2013 and 2018, without the JBL sound system. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

The car radio features a 9-inch 1080P HD touchscreen, runs on Android 12, and includes 2GB RAM and 32GB ROM. Key functionalities include wireless Apple CarPlay, Android Auto, GPS navigation, Wi-Fi connectivity, split-screen mode, and support for a backup camera.

## 2. SETUP AND INSTALLATION

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### 2.1 Package Contents

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

## Sound Field Adjustment / 32-band EQ Adjustment / Unlimited Preset Station



Figure 2.1: Included components for the Leadfan Android 12 Car Radio. This includes the main head unit, a backup camera, WiFi antenna, RCA cables, user manual, power cable, external microphone, GPS antenna, and two USB cables.

- Main Head Unit (9-inch display)
- Backup Camera
- WiFi Antenna
- Rear View Input Cable
- RCA Cable Set
- User Manual
- Power Cable Harness
- External Microphone
- GPS Antenna
- USB Cables (x2)

## 2.2 Installation Overview

The Leadfan car radio is designed for easy, plug-and-play installation in compatible Toyota RAV4 models (2013-2018 without JBL). No modifications to the vehicle's dashboard or wiring are typically required. All necessary cables are provided to connect directly to the vehicle's existing harness.



Figure 2.2: Visual comparison of the dashboard before and after installing the Leadfan car radio, demonstrating its integrated fit.

For detailed vehicle-specific removal and installation steps, it is recommended to consult your vehicle's service manual or online resources for Toyota RAV4 (2013-2018) radio replacement.

## 2.3 Wiring Connections

Carefully connect the provided cables to the corresponding ports on the car radio and your vehicle's harness. Ensure all connections are secure to prevent intermittent issues.

- **Power Cord:** Connects to the vehicle's main power harness.
- **USB Cables:** For connecting external devices or for Android Auto/CarPlay via USB.
- **GPS Antenna:** Mount in a location with a clear view of the sky for optimal signal reception.
- **WiFi Antenna:** Connect for wireless internet access and wireless CarPlay/Android Auto.
- **Microphone:** Connect the external microphone for improved call quality and voice commands.
- **RCA Cables:** For auxiliary audio/video input/output, subwoofer, etc.
- **Reverse Input:** Connect this wire to the vehicle's reverse light signal for automatic backup camera activation.
- **Radio Cable:** For FM/AM radio reception.



Figure 2.3: Rear panel connections and general wiring diagram for the car radio, illustrating where various cables should be connected, including the backup camera wiring.

## 2.4 Backup Camera Installation

The included backup camera provides an HD rearview image with night vision. Connect the camera as follows:

1. Mount the backup camera securely at the rear of your vehicle.
2. Connect the camera's video output cable to the "Rear View Input" on the car radio.
3. Connect the camera's power cable to the vehicle's reverse light positive (+) and negative (-) wires. This ensures the camera activates automatically when the vehicle is in reverse.
4. Connect the "Reverse Input" wire from the car radio harness to the vehicle's reverse light signal.



Figure 2.4: Backup camera wiring diagram, showing connections to the car radio and vehicle's reverse lights.

### 3. OPERATING INSTRUCTIONS

#### 3.1 Basic Functions

- **Power On/Off:** The unit typically powers on with the vehicle's ignition. A power button on the unit or screen may also be available for manual control.
- **Volume Control:** Adjust volume using the physical knobs/buttons on the unit or via steering wheel controls.
- **Touchscreen:** The 9-inch 1080P HD IPS touchscreen responds to touch gestures for navigation and control.

#### 3.2 GPS Navigation

The car radio supports both online and offline navigation. It comes pre-installed with map data for North America and worldwide. You can use various navigation applications such as Google Maps, IGO map, and 3DMaps. Voice guidance is available for turn-by-turn directions.

- Ensure the GPS antenna is properly connected and positioned for optimal signal.
- For online navigation, connect the unit to Wi-Fi or a mobile hotspot.
- Download offline maps for navigation without an internet connection.



Figure 3.1: GPS navigation interface and supported navigation applications.

#### 3.3 Wireless Apple CarPlay & Android Auto

Connect your iPhone or Android smartphone wirelessly for seamless integration of your phone's features onto the car radio display.

1. Ensure Bluetooth and Wi-Fi are enabled on both your smartphone and the car radio.
2. Pair your smartphone with the car radio via Bluetooth.
3. Follow the on-screen prompts to establish the wireless CarPlay or Android Auto connection.

Once connected, you can access phone calls, messages, music, and navigation apps directly from the car radio screen. Voice assistance (Siri for CarPlay, Google Assistant for Android Auto) is supported for hands-free control.



Figure 3.2: Wireless Apple CarPlay and Android Auto functionality, showing connection methods and voice command examples.

### 3.4 Wi-Fi Connection & App Downloads

Connect the car radio to a Wi-Fi network or a mobile hotspot to access online features.

1. Go to the system settings and select "Wi-Fi".
2. Choose your desired network and enter the password if prompted.
3. Once connected, you can download various applications from the Google Play Store, stream online content, and use online navigation services.

### 3.5 Bluetooth Functionality

The unit supports Bluetooth 5.0 for hands-free calling and audio streaming.

- **Pairing:** Enable Bluetooth on your phone and search for the car radio. Select the device and confirm pairing.
- **Hands-Free Calling:** Make and receive calls directly from the car radio interface.
- **Audio Streaming:** Play music from your smartphone wirelessly through the car's speakers.



Figure 3.3: Bluetooth interface for calls and FM radio display.

### 3.6 Mirror Link

Mirror Link allows you to display your smartphone's screen on the car radio. iOS devices support one-way connection (phone to radio), while Android devices support two-way connection (phone to radio, and radio control of phone).

- Connect your phone via USB or Wi-Fi as prompted by the Mirror Link application on the car radio.
- Follow the on-screen instructions to establish the connection.

### 3.7 Split Screen Functionality

The split-screen feature allows you to run two applications simultaneously on the 9-inch display. For example, you can have navigation running on one side and music playback on the other.

- To activate, open an application, then long-press the recent apps button or drag another compatible app to the side of the screen.
- Adjust the size of each window as needed.



Figure 3.4: Example of split-screen mode, showing navigation and a video application running concurrently.

### 3.8 Audio and Multimedia

- **FM Radio:** Access the FM tuner to listen to radio stations.
- **EQ Settings:** Customize your audio experience with multiple EQ settings, including a 32-band equalizer and sound field adjustments.

- **Video Playback:** Supports 1080P video playback from various sources.



Figure 3.5: Audio adjustment interfaces, including sound field and 32-band EQ settings.

### 3.9 Steering Wheel Control (SWC)

The unit supports your vehicle's existing steering wheel controls, allowing you to manage audio and calls without taking your hands off the wheel.

1. Access the SWC settings menu on the car radio.
2. Follow the on-screen instructions to map your steering wheel buttons to the desired functions (e.g., volume up/down, track skip, answer/end call).
3. Press and hold each button on your steering wheel as prompted by the radio's interface to program it.



Figure 3.6: Steering Wheel Control (SWC) setup screen, illustrating button mapping.

## 4. MAINTENANCE

- **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 via the system settings. Connecting to Wi-Fi will allow the unit to download and install updates, improving performance and adding new features.
- **General Care:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

## 5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit does not power on.	Incorrect power wiring; blown fuse; vehicle ignition off.	Check all power connections. Verify vehicle's fuse box. Ensure ignition is on.
No sound.	Volume too low; incorrect speaker wiring; mute activated.	Increase volume. Check speaker connections. Deactivate mute function.
GPS signal weak or inaccurate.	GPS antenna improperly installed or obstructed.	Ensure GPS antenna is mounted in a clear, unobstructed location. Check antenna connection.
Wireless CarPlay/Android Auto not connecting.	Bluetooth/Wi-Fi off; incorrect pairing; phone compatibility issue.	Ensure Bluetooth and Wi-Fi are active on both devices. Re-pair the phone. Check phone's compatibility.
Backup camera not displaying.	Camera wiring incorrect; reverse trigger wire not connected; factory camera incompatibility.	Verify camera power and video connections. Ensure the reverse trigger wire is correctly connected to the vehicle's reverse light signal. <i>Note: This unit is designed for the included backup camera and may not be compatible with factory-installed cameras.</i>
Steering Wheel Controls not working.	SWC wiring incorrect; buttons not programmed.	Check SWC wiring connections. Re-program the steering wheel buttons via the unit's settings.

## 6. SPECIFICATIONS

Feature	Detail
Model Number	for RAV4 2013-2018 without JBL
Operating System	Android 12
Processor	4 Core CPU
RAM	2GB
ROM	32GB
Display Size	9 Inches
Display Resolution	1280*720 (1080P HD Touchscreen)

Feature	Detail
Connectivity	Bluetooth 5.0, Wi-Fi, USB
Special Features	Wireless Apple CarPlay, Android Auto, GPS Navigation, Split Screen, Mirror Link, FM Radio, Steering Wheel Control, Backup Camera Support
Map Type	North America, Worldwide (Online/Offline)
Audio Output Mode	Stereo
Mounting Type	Dashboard Mount
Item Weight	1.5 pounds
Package Dimensions	17.24 x 12.2 x 4.41 inches

## 7. WARRANTY & SUPPORT

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### 7.1 Product Warranty

This Leadfan car 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.

### 7.2 Customer Support

If you encounter any issues during installation or operation, or have questions not covered in this manual, please contact Leadfan customer support. You can typically reach support by clicking the seller's name on the product page (Leadfan) and selecting "Ask a question" to send a message.

For the most efficient support, please provide your product model number (for RAV4 2013-2018 without JBL) and a detailed description of the issue.