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JOYING JY-TT186N4

JOYING JY-TT186N4 Android 13 Car Stereo User Manual

For Toyota RAV4 (2013-2018)

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your JOYING JY-TT186N4 Android 13 Car Stereo. This head unit is specifically designed for Toyota RAV4 models manufactured between 2013 and 2018, offering advanced features such as a 9-inch touchscreen, wireless Carplay and Android Auto, GPS navigation, Bluetooth connectivity, Steering Wheel Control (SWC) compatibility, and AM/FM radio.
Please read this manual thoroughly before installation and use to ensure proper functionality and to maximize your experience with the device.

Image 1: JOYING Android 13 Car Stereo main unit, highlighting Android 13 OS and compatibility features for Toyota RAV4 2013-2018, including Factory USB, JBL Amplifier, Reverse Camera, Parking Sensor, A/C Information Display, Factory 360 Camera, and Steering Wheel Control.

Image 2: Various Toyota RAV4 2013-2018 dashboard configurations, demonstrating the compatibility and fit of the JOYING car stereo.

2. Setup and Installation

2.1 Package Contents

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

- 9" Radio Unit
- Single Din Cage
- Left & Right Brackets
- WiFi Antenna
- GPS Antenna
- 4G Antennas (x2)
- External Microphone
- USB Cables (x2)

- AR Cable
- Screen Ribbon Cable
- Power Cable
- User Manual

Image 3: All included accessories and components of the JOYING car stereo package, laid out for verification.

2.2 Unit Dimensions and Connections

Familiarize yourself with the unit's dimensions and the various input/output ports on the rear panel before installation.

Image 4: Diagram showing the dimensions of the 9-inch radio unit and a detailed view of the rear panel with all connection ports labeled, including WiFi, GPS, 4G, USB, HDMI Out, Optical Out, Coaxial Out, and RCA outputs.

2.3 Installation Guidelines

Professional installation is highly recommended for car stereo systems to ensure correct wiring and optimal performance. Incorrect installation can damage the unit or your vehicle's electrical system.

1. **Preparation:** Disconnect the vehicle's battery before starting any electrical work.
2. **Dash Removal:** Carefully remove the factory radio and dash trim according to your Toyota RAV4's service manual.
3. **Mounting:** Use the provided single DIN cage and left & right brackets to secure the new head unit into the dashboard opening.
4. **Wiring:** Connect the power cable, speaker wires, and other necessary harnesses. Ensure all connections are secure.
5. **Antenna Connections:** Connect the GPS antenna, WiFi antenna, and 4G antennas to their respective ports on the rear of the unit. Position antennas for optimal signal reception.
6. **External Devices:** Connect the external microphone, USB cables, AR cable, and screen ribbon cable as needed.
7. **Testing:** Before fully reassembling the dash, reconnect the battery and perform a basic power-on test to ensure the unit functions.
8. **Reassembly:** Carefully reassemble the dash trim and secure all components.

3. Operating Instructions

3.1 Initial Startup and Fast Boot

The first boot-up of the system may take approximately 30-40 seconds. Subsequent startups after the car key is inserted will be significantly faster, entering the user interface in about 2 seconds.

3.2 GPS Navigation

The unit features precise GPS engines and includes a dedicated GPS antenna for accurate positioning and faster real-time navigation. You can use pre-installed navigation apps or download others from the app store.

- **Offline Maps:** If supported by your navigation app (e.g., Google Maps), you can download map data for specific areas to the car stereo for offline use.
- **Synchronization:** Mobile phone map data can be synchronized to the head unit via Carplay or Android Auto.

Image 5: The JOYING car stereo installed in a Toyota RAV4 dashboard, displaying a GPS navigation map.

3.3 Built-in Carplay & Android Auto

Connect your mobile phone to the car radio via a USB cable or Bluetooth to access phone applications on the larger screen. This allows for easy access to navigation, making phone calls, and listening to music directly from your phone's interface.

Image 6: Visual representation of the Carplay and Android Auto interfaces on the JOYING car stereo, showing common applications like Phone, Music, Maps, and Messages.

3.4 Audio Features

Experience high-quality sound with the integrated TDA7851 DSP Chip, a 48-Band Graphic Equalizer, and 4x50W maximum output power.

- **External Amplifier Support:** The unit provides 4 audio outputs and 1 SUB output. If your external amplifier has Optical Fiber or Coaxial Digital Input, you can achieve ultimate sound quality directly through these outputs.

Image 7: Features related to high-quality sound, including the TDA7851 DSP chip, 48-band graphic equalizer, 4x50W max output power, and support for aftermarket amplifiers via 4 audio outputs, 1 SUB output, Fiber Optical output, SPDIF Coaxial output, and Center Channel output.

3.5 Connectivity

- **Bluetooth:** For hands-free calls and audio streaming.
- **Wi-Fi:** With an independent WiFi antenna, the unit ensures stable signal quality for fast and smooth internet access (Standard: 802.11a/b/g/n/AC, Spectral band: 2.4GHz/5GHz).
- **Built-in 4G Module:** Insert a SIM card for internet access. Note that this module supports data only and cannot be used for phone calls or sending SMS messages. Supported types: FDD-LTE: B2/B4/B5/B7/B12/B13/B14/B17/B25/B26/B38/B66/B71. TDD-LTE: B41.

Image 8: Illustration of the upgraded WiFi signal capability with an independent WiFi antenna for stable and fast internet access.

3.6 Split-screen Multitasking

The unit supports split-screen functionality, allowing you to run two applications simultaneously. For example, you can have navigation on one side and music on the other.

1. Tap the recent apps icon.
2. Find the app you want to run in split-screen mode. Click the split-screen icon to activate the feature.
3. The first app selected will display on the left side. Choose the second app from recent apps to display on the right.

Image 9: Demonstration of the split-screen multitasking feature, showing YouTube and a map application running concurrently, along with a step-by-step guide on how to activate it.

3.7 HDMI Output

The HDMI output provides a full digital image and sound-sending interface, allowing uncompressed audio and video signals to be output synchronously without manual adjustment.

- **Projection Screen Display:** Supports playing movies for passengers on headrest screens while the driver can navigate on the main screen.
- **On-screen Display:** Displays 1080P clear picture with zero delays or stuttering.

Note: The HDMI cable is not included.

Image 10: Illustration of the HDMI output functionality, showing the main unit connected to rear headrest monitors for passenger entertainment, and a close-up of the HDMI OUT port on the unit's rear panel.

3.8 Personalized Settings

Customize your user experience with various personalization options:

- **Car Boot Logo:** Select a custom logo for startup.
- **Customizable Wallpapers:** Choose from various wallpapers or upload your own.
- **Adjustable Screen Brightness:** Optimize display visibility for different lighting conditions.
- **Changeable Button Color:** Customize the color of the physical buttons.

Image 11: Overview of personalized settings, including options for car boot logo, customizable wallpapers, adjustable screen brightness, and changeable button colors.

3.9 Other Features

- **Picture-in-Picture:** Display a small video window over other applications.
- **3 USB Ports:** For connecting various USB devices.
- **Micro SD Card Slot:** For additional storage.
- **4G SIM Card Slot:** For mobile data connectivity.

Image 12: Icons representing additional features such as Fast Boot, GPS Navigation, AM/FM Radio, Hands-free Call, Picture-in-Picture, 3 USB Ports, Micro SD Card Slot, and 4G SIM Card Slot.

4. Maintenance

4.1 Cleaning

- **Screen:** Use a soft, lint-free cloth specifically designed for electronics screens. Do not use abrasive cleaners or solvents.
- **Unit Exterior:** Wipe with a soft, damp cloth. Avoid getting moisture into ports or openings.

4.2 Cooling System

The unit features a dual heat sink design for superior heat dissipation and improved temperature control. An internal fan automatically activates when the CPU temperature or radio's volume exceeds a set warning value, preventing overheating and ensuring stable performance.

Image 13: Diagram illustrating the upgraded cooling system with a dual heat sink design and an automatic fan that activates based on CPU temperature or volume levels to prevent overheating.

4.3 Software Updates

Information regarding software updates is not explicitly provided. Please check the manufacturer's official website or contact customer support for the latest software updates and instructions.

5. Troubleshooting

If you encounter issues with your JOYING car stereo, please try the following basic troubleshooting steps:

- **No Power:** Check all power connections and the vehicle's fuse box. Ensure the unit is properly connected to the vehicle's power supply.
- **No Sound:** Verify speaker connections. Check volume levels and audio output settings. Ensure any external amplifiers are powered on and correctly connected.
- **Touchscreen Unresponsive:** Try restarting the unit. If the issue persists, a factory reset might be necessary (refer to settings menu).
- **GPS Signal Issues:** Ensure the GPS antenna is properly connected and has a clear view of the sky.
- **Bluetooth/Wi-Fi Connectivity Problems:** Ensure Bluetooth/Wi-Fi is enabled on both the head unit and your device. Try re-pairing or reconnecting.
- **System Lag/Freezing:** Close unnecessary background applications. A system restart often resolves temporary performance issues.

For more complex issues, please refer to the support section or contact JOYING customer service.

6. Specifications

Feature	Specification
Brand	JOYING
Model Name	JY-TT186
Model Number	JY-TT186N4
Operating System	Android 13
Screen Size	9 inches
Display Type	LED, Capacitive Touchscreen
Memory Storage Capacity	64 GB
Vehicle Service Type	Car, SUV (Toyota RAV4 2013-2018)
Special Features	DSP, Front View Camera Input, RCA, RDS, SD Card Input, Carplay, Android Auto
Connectivity Technology	Bluetooth, Ethernet, HDMI, USB, Wi-Fi, 4G Module
Connectivity Protocol	Bluetooth, Wi-Fi
Supported Satellite Navigation System	BeiDou, GLONASS, GPS
Map Type	North America

Audio Output Mode	Stereo
Compatible Devices	Amplifier, Smartphone, Speaker
Control Method	Touchscreen

7. Warranty and Support

7.1 Warranty Information

The JOYING JY-TT186N4 Car Stereo comes with a **2-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.
The warranty does not cover damage caused by improper installation, misuse, accidents, unauthorized repairs, or normal wear and tear.

7.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your JOYING car stereo, please contact JOYING customer support through their official website or the retailer where the product was purchased.
Please have your model number (JY-TT186N4) and purchase details ready when contacting support.

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