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› RONGJI Car Radio for VW Passat B6 B7 CC (2010-2015) - 4Core 1+32GB User Manual

RONGJI 4Core 1+32GB

RONGJI Car Radio for VW Passat B6 B7 CC (2010-2015)

Model: 4Core 1+32GB - User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your RONGJI Car Radio, model 4Core 1+32GB. This head unit is designed for Volkswagen VW Passat B6, B7, and CC models manufactured between 2010 and 2015. It features a 10.1-inch IPS touch screen, integrated Car-Play, Android Auto, GPS navigation, Bluetooth, and WiFi connectivity.

Please read this manual thoroughly before installation and use to ensure proper function and to maximize your experience with the product.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

Package Contents



Machine



Power Cable+Canbus Box

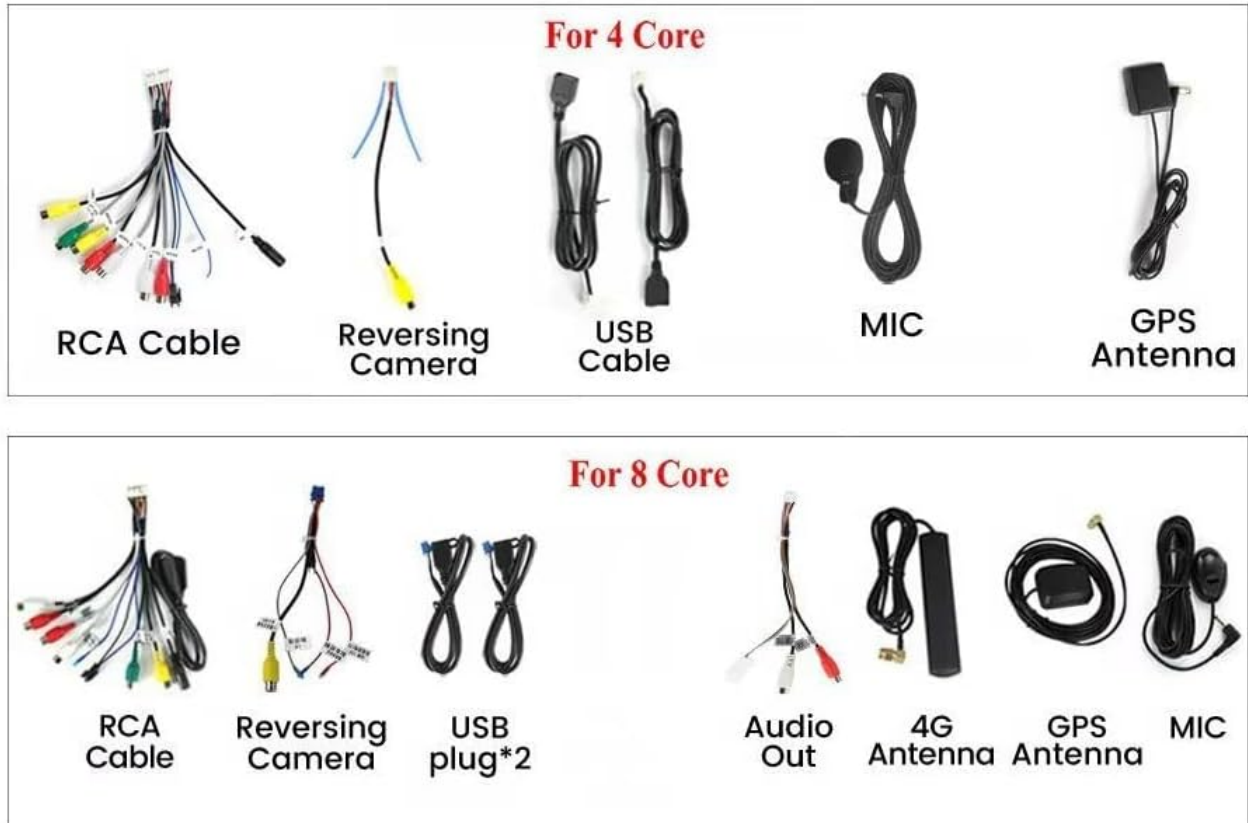


Figure 2.1: Package Contents - This image displays the various components included with your RONGJI car radio. It shows the main head unit, power cable with Canbus box, RCA cables, reversing camera cable, USB cables, external microphone, and GPS antenna. The image differentiates between accessories for 4-core and 8-core versions.

- Main Head Unit (10.1-inch IPS Touch Screen)
- Power Cable with Canbus Box
- RCA Cables
- Reversing Camera Cable
- USB Cables (2 for 4-Core, 2 for 8-Core)
- External Microphone
- GPS Antenna
- User Manual (this document)

3. INSTALLATION GUIDE

The RONGJI Car Radio is designed as a plug-and-play kit for compatible Volkswagen models. While installation is

simplified, professional installation is recommended to ensure correct wiring and functionality, especially for Canbus integration and steering wheel controls.

3.1. Compatibility Check

Before proceeding with installation, compare your vehicle's dashboard and the back of your OEM radio with the provided images to confirm compatibility. If unsure, consult with a professional installer or contact customer support with photos of your dashboard and original radio.

3.2. Installation Steps (General Overview)

1. **Preparation:** Disconnect the vehicle's battery to prevent electrical shorts.
2. **Remove OEM Radio:** Carefully remove the existing car radio and dashboard trim. Refer to your vehicle's service manual for specific instructions.
3. **Connect Wiring Harness:** Connect the provided power cable and Canbus box to the vehicle's wiring harness. Ensure all connections are secure.
4. **Connect Peripherals:** Connect the GPS antenna, external microphone, USB cables, and reversing camera cable (if applicable) to the new head unit. Route cables appropriately to avoid interference.
5. **Mount Head Unit:** Secure the RONGJI head unit into the dashboard opening.
6. **Test Functionality:** Reconnect the vehicle's battery. Turn on the ignition and test all functions of the new head unit, including audio, touch screen, steering wheel controls, GPS, Bluetooth, and camera input.
7. **Reassemble Dashboard:** Once all functions are verified, reassemble the dashboard trim.



Figure 3.1: Before and After Installation - This image illustrates the visual transformation of the car's dashboard. The bottom left shows the original car radio setup, while the top and bottom right images display the RONGJI 10.1-inch head unit seamlessly integrated into the dashboard after installation.

4. OPERATING INSTRUCTIONS

Your RONGJI Car Radio offers a range of features for an enhanced in-car experience. This section details how to use the primary functions.

4.1. Car-Play & Android Auto

The head unit supports both wireless and wired Car-Play and Android Auto, providing an intuitive way to access calls, music, navigation, and apps from your smartphone.

- **Connection:** Connect your compatible smartphone via USB cable for wired connection, or follow the on-screen prompts for wireless setup via Bluetooth and Wi-Fi.
- **Access:** Once connected, the Car-Play or Android Auto interface will appear on the screen, allowing you to control supported apps directly from the head unit.



Figure 4.1: Car-Play and Android Auto Interfaces - This image illustrates the user interfaces for both Car-Play and Android Auto as displayed on the RONGJI head unit. It highlights the range of applications accessible through these platforms, such as phone functions, music streaming, navigation, and messaging, and confirms support for both wired and wireless connections.

4.2. GPS Navigation

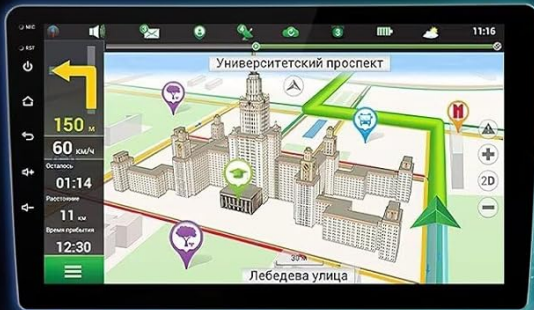
The unit features a built-in GPS module and supports an external GPS antenna for accurate positioning and navigation.

- **Map Download:** After connecting to Wi-Fi, you can download free offline maps for any country using the pre-installed navigation app.
- **Usage:** Access the navigation application from the main menu. The system supports online and offline maps, providing real-time traffic conditions and accurate positioning even without a mobile signal.

GPS accurate positioning

Built-in global positioning system , omni-directional map display , synchronous display real-time traffic conditions ,rapid and accurate positioning

GPS | GLONASS | BDS



Support WIFI

Built-in Wifi module allows you to watch online videos, listen to music, play games, and navigate online when connected to wifi.

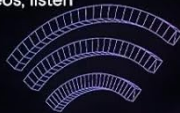


Figure 4.2: GPS Accurate Positioning - This image demonstrates the GPS navigation capabilities of the RONGJI car radio. The display shows a detailed map with navigation instructions, current speed, and estimated arrival time. The graphic also highlights the system's support for multiple global positioning systems, including GPS, GLONASS, and BDS, ensuring precise and reliable navigation.

4.3. Wi-Fi Connectivity

The built-in Wi-Fi module allows for internet access, app downloads, and online media streaming.

- **Connection:** Go to the system settings, select Wi-Fi, and connect to an available Wi-Fi network or mobile hotspot.
- **Applications:** Once connected, you can download various applications, stream videos, listen to music, and browse the internet directly from the head unit.

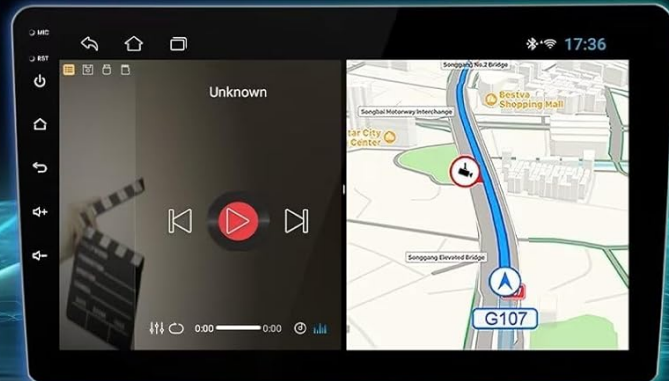
HD Capacitive Split Touch Screen

Support for two applications to be displayed on the screen at the same time which makes the operation more convenient and faster

WEP+FM / MAP+FM etc...



Music+MAP



Steering Wheel Control

Take control of the music or use hands-free calling function for safety to and concentrate on the road ahead. This head unit's steering wheel control (SWC) works with a digital SWC.

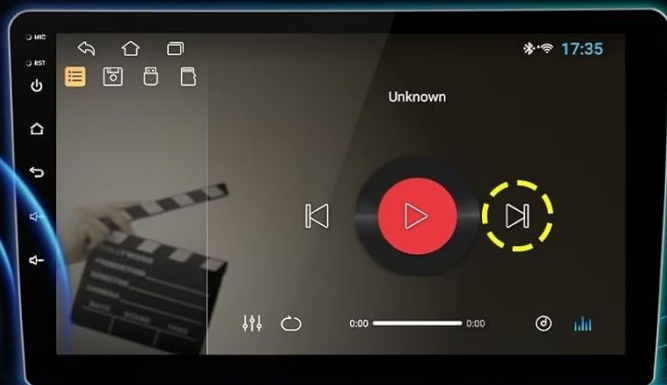


Figure 4.3: Support Wi-Fi and Split Screen - This image showcases two key features: Wi-Fi connectivity and the split-screen function. The lower portion visually represents the Wi-Fi module, enabling access to online content and applications like YouTube and Spotify. The upper portion demonstrates the split-screen capability, allowing users to simultaneously view two applications, such as a music player and a navigation map.

4.4. HD Capacitive Split Touch Screen

The 10.1-inch IPS touch screen supports displaying two applications simultaneously, enhancing multitasking and convenience.

- **Activation:** To activate split-screen mode, open one application, then drag another compatible application from the recent apps list to the side of the screen.
- **Examples:** You can display navigation and music, or radio and a web browser, at the same time.

4.5. Steering Wheel Control (SWC)

The head unit supports your vehicle's original steering wheel controls, allowing you to manage audio and calls safely while driving.

- **Configuration:** After installation, access the SWC settings in the system menu to map your steering wheel buttons to the desired functions (e.g., volume up/down, track skip, answer/end call).

FM RDS Radio

supports automatic search and manual search , You can drag the icon of target station and replace it into channel list



Support BT Function

Phonebook with name search function and caller name display directly , Incoming calls , dialed calls , missed calls with caller ID Support BT music streaming



BT music



Sync contacts



Synchronous callrecord



Figure 4.4: Steering Wheel Control, FM RDS Radio, and Bluetooth Function - This composite image highlights three distinct operational features. The top left section illustrates the integration of steering wheel controls for safe operation. The top right section displays the FM RDS radio interface, showing frequency tuning and station presets. The bottom section demonstrates the Bluetooth function, including a phone dialer and an incoming call notification, emphasizing hands-free communication and music streaming.

4.6. Bluetooth (BT) Function

The built-in Bluetooth module enables hands-free calling and wireless audio streaming.

- **Pairing:** Enable Bluetooth on your smartphone and search for the head unit. Select the unit from the list and confirm the pairing code.
- **Hands-Free Calling:** Once paired, you can make and receive calls directly from the head unit using the built-in microphone or an external microphone. Access your phonebook, call records, and dial numbers from the screen.
- **BT Music:** Stream audio from your phone to the car speakers wirelessly.

4.7. FM & RDS Radio

Enjoy stable radio reception with automatic and manual station search capabilities.

- **Tuning:** Access the FM radio application. Use the on-screen controls to search for stations automatically or manually tune to a specific frequency.
- **RDS:** The Radio Data System (RDS) displays station information, song titles, and other relevant data where available.

5. MAINTENANCE

Proper care and maintenance will ensure the longevity and optimal performance of your RONGJI Car Radio.

- **Screen Cleaning:** Use a soft, lint-free cloth specifically designed for electronics to clean the touch screen. Do not use abrasive cleaners or solvents.
- **Software Updates:** Periodically check for available software updates through the system settings or the manufacturer's website to ensure you have the latest features and bug fixes.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

6. TROUBLESHOOTING

If you encounter issues with your RONGJI Car Radio, refer to the following common problems and solutions.

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection, blown fuse, vehicle battery issue.	Check power cable connections. Inspect vehicle fuses. Ensure vehicle battery is charged.
No sound from speakers.	Speaker wires disconnected, volume too low, incorrect audio source.	Verify speaker wire connections. Increase volume. Select correct audio source.
Touch screen unresponsive.	Software glitch, screen calibration issue.	Restart the unit. If issue persists, perform a factory reset (refer to system settings).
GPS signal weak or inaccurate.	GPS antenna improperly installed or obstructed.	Ensure GPS antenna is mounted in a clear location with an unobstructed view of the sky. Check antenna connection.
Bluetooth pairing issues.	Bluetooth not enabled, device not discoverable, interference.	Ensure Bluetooth is enabled on both devices. Make sure the head unit is in pairing mode. Try pairing in a different location to avoid interference.
Steering wheel controls not working.	Incorrect Canbus connection, SWC not configured.	Verify Canbus box connection. Access SWC settings in the unit to configure buttons.

If the problem persists after attempting these solutions, please contact customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Brand	RONGJI
Model Name	RONGJI (4Core 1+32GB)
Operating System	Android OS
CPU	4 Core
RAM	1GB
Internal Storage	32GB
Screen Size	10.1 Inches
Display Type	IPS LCD
Touch Screen Type	Capacitive
Resolution	1280*720
Connectivity Technology	Wireless (BT, Wi-Fi), Ethernet
Special Features	BT, Touchscreen, Wireless Android Auto, Wireless Car-play, GPS Navigation, FM/RDS Radio, Split Screen
Supported Navigation System	GPS
Map Type	Worldwide (downloadable)
Mounting Type	Dashboard Mount
Vehicle Service Type	Car (Volkswagen VW Passat B6 B7 CC 2010-2015)
Manufacturer	Shenzhen Rongji Electronics Co., Ltd

8. WARRANTY AND SUPPORT

8.1. Warranty Information

This RONGJI Car Radio comes with a **1-YEAR WARRANTY** from the date of purchase. The warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications.

Please retain your proof of purchase for warranty claims.

8.2. Customer Support

For technical assistance, warranty claims, or any questions regarding your RONGJI Car Radio, please contact the seller or manufacturer:

- **Manufacturer:** Shenzhen Rongji Electronics Co., Ltd
- **Seller:** Navifly car radio (via Amazon)
- Refer to your purchase documentation for specific contact details.

