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› [VECHTEL](#) /

› [VECHTEL Android 13 Car Stereo User Manual for Volvo XC90 2002-2014](#)

VECHTEL 2G+64G

VECHTEL Android 13 Car Stereo User Manual for Volvo XC90 2002-2014

Model: 2G+64G

Introduction	Safety Information	Package Contents	Product Overview	Installation	Operation
Maintenance	Troubleshooting	Specifications	Warranty & Support		

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Vechtel Android 13 Car Stereo. This unit is specifically designed for Volvo XC90 models manufactured between 2002 and 2014. Please read this manual thoroughly before using the product to ensure proper functionality and safety.

2. SAFETY INFORMATION

- Professional Installation Recommended:** Due to the complexity of car electrical systems, professional installation is highly recommended to prevent damage to the unit or your vehicle.
- Check Compatibility:** Before installation, ensure your original Volvo XC90 radio has an AUX mode. If not, contact customer support for a replacement wiring harness.
- Driving Safety:** Do not operate the unit in a way that distracts you from driving. Always prioritize road safety.
- Volume Control:** Keep the volume at a level where you can still hear outside traffic sounds.
- Power Supply:** Ensure the unit is connected to a 12V DC power supply with a negative ground.
- Avoid Moisture:** Do not expose the unit to water or excessive moisture.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all the following items are included:

- VECHTEL Android 13 Car Stereo Unit
- Power Cable
- Canbus Decoder

- Installation Tool Kit
- HD Rear Camera
- USB Cables
- Rear Camera Input Cable
- GPS Antenna
- RCA Cable Set
- External Microphone

Figure 3.1: Included Components and Unit Dimensions

4. PRODUCT OVERVIEW

The VECHTEL Android 13 Car Stereo is an advanced in-dash GPS navigation head unit designed to upgrade your Volvo XC90's infotainment system. It features a 9-inch touch screen, Android 13 operating system, and a Quad Core CPU with 2GB RAM and 64GB ROM for smooth performance.

4.1 Key Features

- **Operating System:** Android 13
- **Processor:** Quad Core CPU
- **Memory:** 2GB RAM + 64GB ROM
- **Display:** 9-inch HD Touch Screen (1024*600 resolution), supports 1080P video playback
- **Connectivity:** Wireless CarPlay, Wireless Android Auto, WiFi, Bluetooth, USB
- **Navigation:** Built-in GPS, supports offline and online maps (HereWego pre-installed)
- **Audio:** FM/RDS Radio, EQ Settings
- **Camera Support:** HD Night Vision Backup Camera included
- **Control:** Steering Wheel Control (SWC), Voice Control
- **Additional Features:** Split-screen functionality, RCA output for headrest monitors



Figure 4.1: Multiple User Interface Themes

2. 5D HD Touch Screen



Figure 4.2: High-Definition Touch Screen

5. INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your car stereo. If you are unsure about any steps, please consult a professional installer.

5.1 Pre-Installation Check

- Verify your Volvo XC90 (2002-2014) has an AUX mode on its original radio. This is essential for audio integration.
- Disconnect the vehicle's battery before starting any electrical work.



Figure 5.1: Compatibility Check for Volvo XC90 AUX Mode

5.2 Wiring Diagram

Refer to the following diagram for correct wiring connections. Ensure all connections are secure to prevent electrical issues.

Back Wiring Diagram / Wiring Harness Diagram

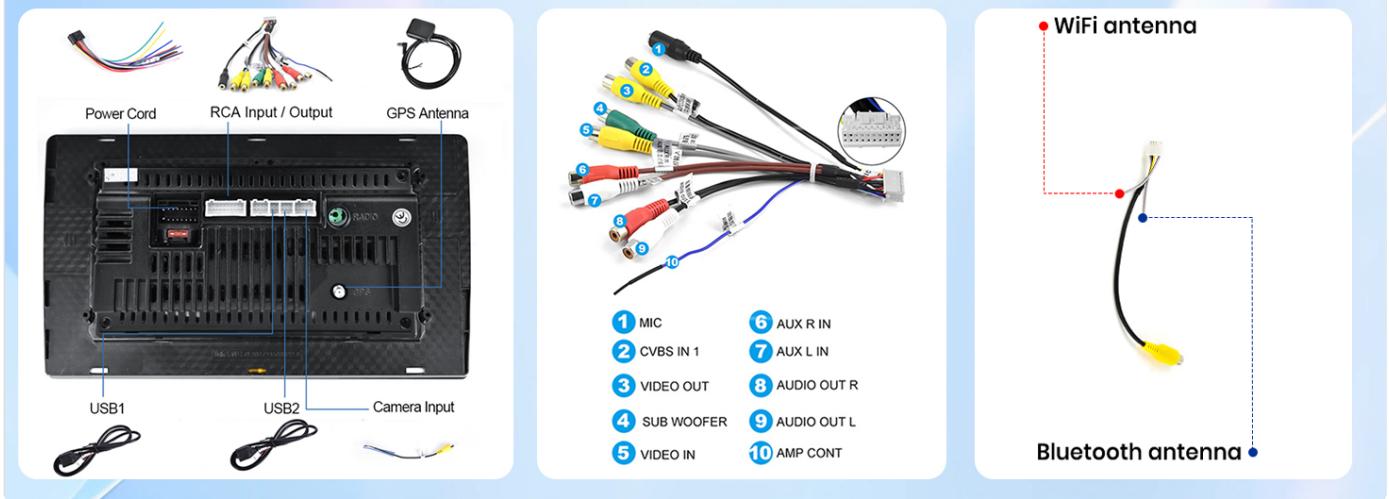


Figure 5.2: Back Wiring Diagram / Wiring Harness Diagram

5.3 General Installation Steps

1. Carefully remove the original car radio from the dashboard.
2. Connect the provided power cable, Canbus decoder, and other necessary harnesses to the new car stereo and the vehicle's wiring.
3. Connect the GPS antenna and route it to a location with a clear view of the sky (e.g., dashboard corner).
4. Install the HD rear camera (if applicable) and connect its video input cable to the stereo.
5. Test all functions (power, audio, GPS, camera, steering wheel controls) before fully reassembling the dashboard.
6. Secure the new car stereo into the dashboard opening.
7. Reassemble the dashboard trim and reconnect the vehicle's battery.

6. OPERATION

This section details the primary functions and how to operate your VECHTEL Android 13 Car Stereo.

6.1 Basic UI Navigation

The unit features an intuitive Android 13 interface. Swipe left or right to navigate between home screens, tap icons to open applications, and use the back/home buttons on the side panel or screen for navigation.

Video 6.1: Product Function Show - Demonstrates various UI themes and basic navigation.

6.2 Wireless CarPlay / Android Auto

Connect your smartphone wirelessly for seamless integration of navigation, music, calls, and messages.

1. Ensure Bluetooth is enabled on your smartphone and the car stereo.
2. On the car stereo, open the 'Car Link' or 'Zlink' application.
3. Follow the on-screen prompts to pair your phone via Bluetooth.
4. Once paired, select either CarPlay (for iOS) or Android Auto (for Android) to initiate the connection.

Wireless / Wired Carplay & Android Auto



Figure 6.2: Wireless CarPlay & Android Auto Interface

Video 6.2: Wireless CarPlay and Android Auto Connection - Detailed steps for connecting your smartphone.

6.3 GPS Navigation

The unit supports both online and offline navigation. HereWego is pre-installed, and you can download global offline map data packs.

- To use online maps, ensure the unit is connected to WiFi.
- For offline maps, download the required map data via the HereWego app or other compatible navigation apps from the Play Store.



Figure 6.3: GPS Navigation Interface

6.4 Bluetooth Hands-Free Calling & Music

Connect your phone via Bluetooth for hands-free calls and audio streaming.

1. Go to the Bluetooth settings on the car stereo.
2. Enable Bluetooth on your phone and search for the car stereo's device name (e.g., "A-Sure1").
3. Pair the devices using the provided PIN (usually 0000).
4. Once connected, you can make/receive calls and play music directly from your phone through the car speakers.



Figure 6.4: Bluetooth Connectivity

6.5 FM/RDS Radio

Access local and online radio stations with the built-in FM/RDS tuner.

- Tap the 'Radio' icon to open the FM tuner.
- Use the scan function to find available stations or manually tune to a frequency.
- RDS (Radio Data System) provides additional information like station name and song title where available.

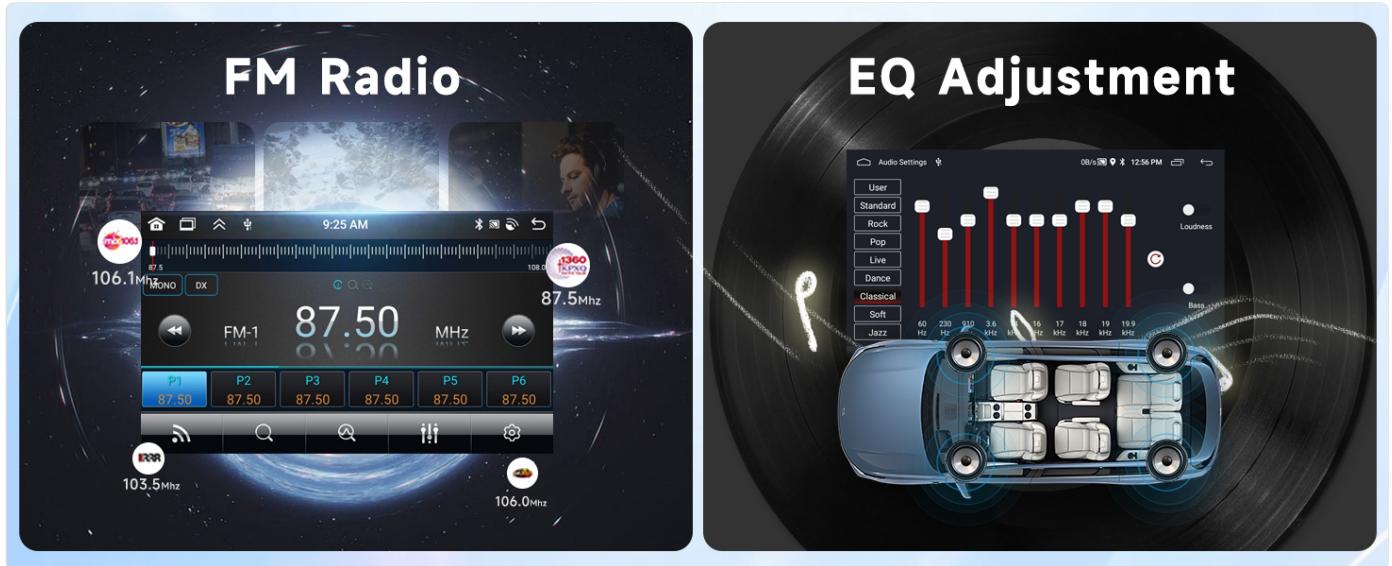


Figure 6.5: FM Radio and EQ Adjustment

6.6 Steering Wheel Control (SWC)

The unit supports your vehicle's original steering wheel controls for convenience.

- After installation, navigate to 'Car Settings' > 'Steering Wheel Study' to configure the buttons.
- Follow the on-screen instructions to map each steering wheel button to its corresponding function on the stereo.

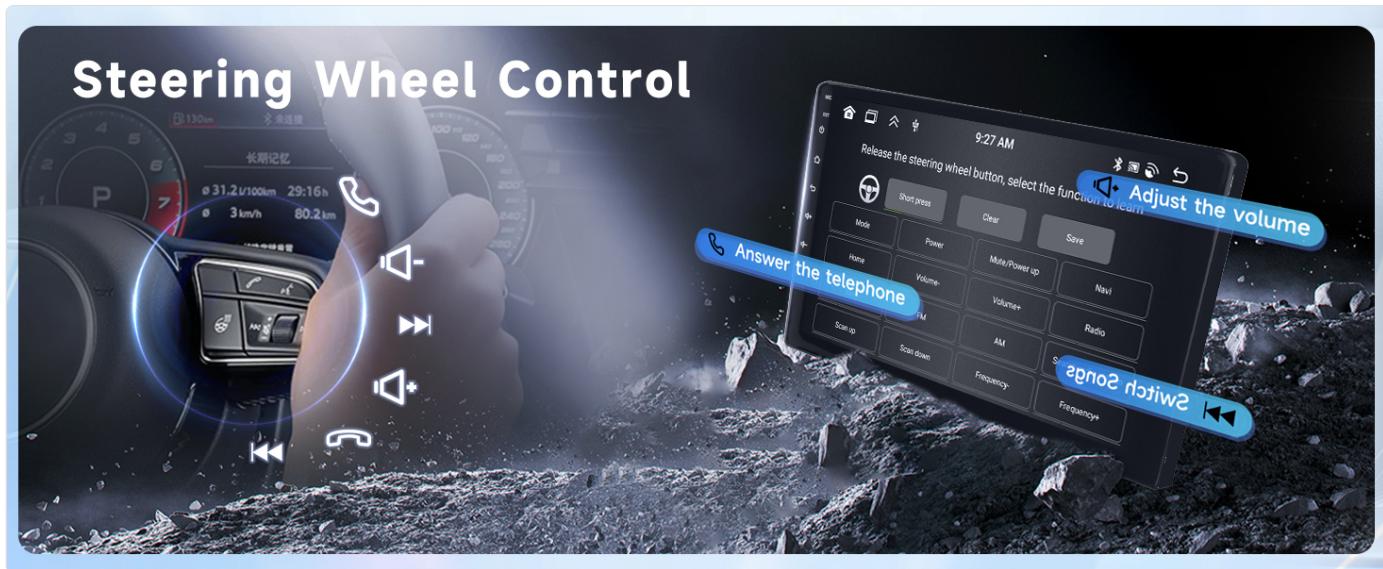


Figure 6.6: Steering Wheel Control Setup

6.7 Voice Control

Activate the voice assistant for hands-free operation of navigation, calls, messages, and music.

- Ensure your smartphone's voice assistant (Siri, Google Assistant) is enabled and configured.
- Once CarPlay or Android Auto is active, you can use voice commands directly through the car stereo.

Video 6.7: Voice Control Demonstration - Shows how to use voice commands for various functions.

6.8 Split Screen Functionality

Run two applications simultaneously on the 9-inch screen for enhanced multitasking.

- While an app is open, long-press the recent apps button or swipe up and hold (depending on UI) to enter split-screen mode.
- Select a second app to run alongside the first.

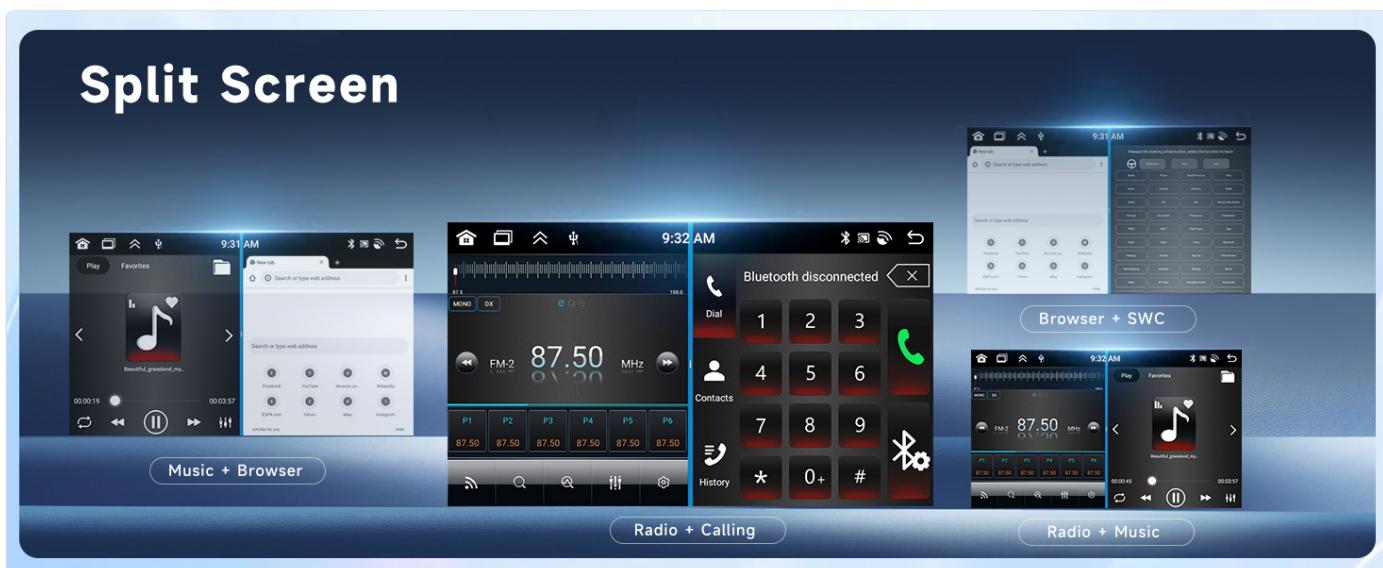


Figure 6.8: Split Screen Modes

6.9 EQ Adjustment

Customize your audio experience with the built-in Equalizer (EQ) settings.

- Access the EQ settings from the main menu or audio settings.
- Adjust frequency bands to fine-tune bass, treble, and mid-range levels.
- Select from various preset sound modes (e.g., Pop, Rock, Jazz) or create custom profiles.

Video 6.9: EQ Adjustment and other settings demonstration.

6.10 HD Reversing Camera

The included HD night vision camera provides clear reversing images for safer parking.

- When the vehicle is shifted into reverse, the camera feed will automatically display on the screen.
- The camera features a 170° wide-angle view and IP68 waterproof rating.

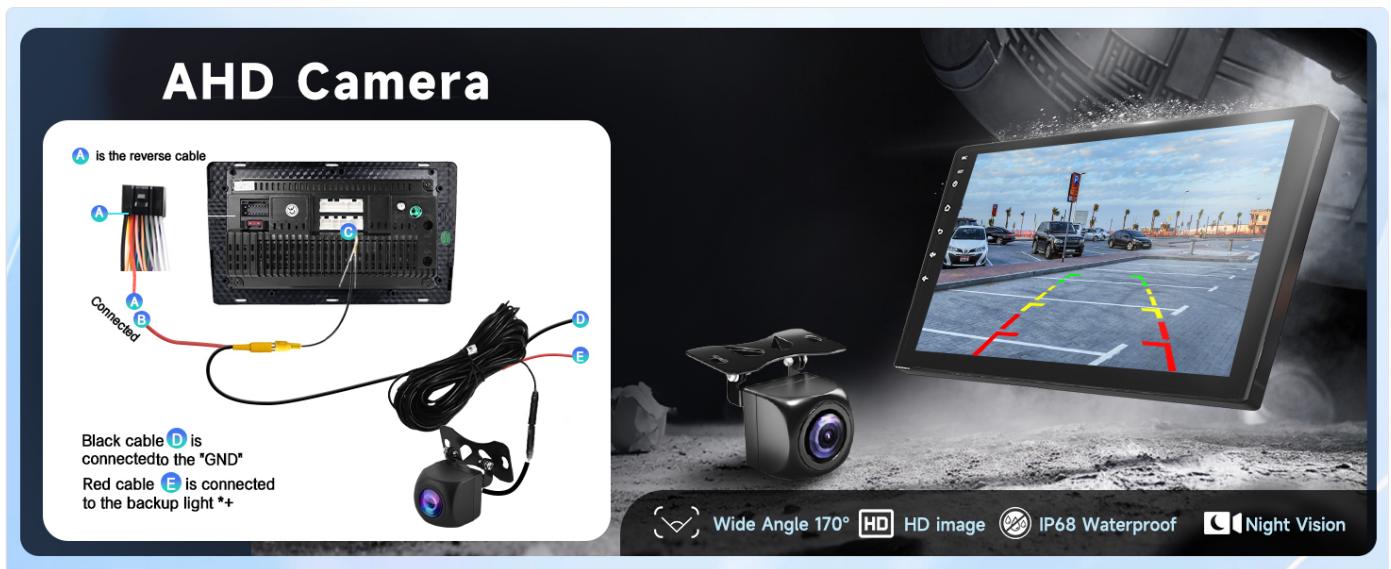


Figure 6.10: HD Reversing Camera View

7. MAINTENANCE

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

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the touch screen. For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals.
- **General Cleaning:** Keep the unit free from dust and debris. Use a soft brush or compressed air to clean vents and buttons.
- **Software Updates:** Periodically check for software updates to ensure the best performance and access to new features. Updates can usually be found in the system settings or on the manufacturer's website.
- **Avoid Extreme Temperatures:** Do not expose the unit to extreme heat or cold for extended periods, as this can affect electronic components.

8. TROUBLESHOOTING

If you encounter issues with your car stereo, refer to the following common problems and solutions:

- **No Power:**
 - Check all power cable connections.
 - Verify the vehicle's fuse for the radio is intact.
 - Ensure the car battery is properly connected and charged.

- **No Sound:**

- Check speaker wire connections.
- Ensure the volume is not muted or set too low.
- Verify the correct audio input source is selected (e.g., FM, Bluetooth, CarPlay).
- Confirm your original radio has AUX mode enabled and the wiring is correct.

- **CarPlay/Android Auto Not Connecting:**

- Ensure Bluetooth is enabled on both devices and they are paired.
- Restart both your phone and the car stereo.
- Check for any pending software updates for your phone or the car stereo.
- Try connecting with a different USB cable if using a wired connection.

- **GPS Not Accurate:**

- Ensure the GPS antenna is properly installed and has a clear view of the sky.
- Check GPS settings in the system to ensure it's enabled and configured correctly.
- Update map data if using offline maps.

- **Steering Wheel Controls Not Working:**

- Verify the Canbus decoder is correctly installed and configured in the factory settings.
- Perform the 'Steering Wheel Study' calibration again in the settings.

If you experience compatibility problems (e.g., mismatched wiring or shape), please reach out to customer support directly through Amazon. Provide your car model/year and a picture of the center console for assistance.

9. SPECIFICATIONS

Feature	Specification
Operating System	Android 13
CPU	Quad Core
RAM	2GB
ROM	64GB
Screen Size	9 Inches
Display Resolution	1024*600
Connectivity	Bluetooth, USB, Wi-Fi
Special Features	GPS, Wireless Android Auto, Wireless CarPlay, Voice Control, Steering Wheel Control
Map Type	Worldwide (Offline/Online)
Item Weight	3.3 pounds
Package Dimensions	9.84 x 5.91 x 3.94 inches
Mounting Type	Dashboard Mount

10. WARRANTY & SUPPORT

10.1 Product Warranty

This VECHTEL car stereo comes with a **2-year warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact VECHTEL customer support directly through Amazon. When contacting support, please provide your order number, product model, and a detailed description of the issue for faster resolution.

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