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› Vratzn Android 13 Car Radio Stereo User Manual for Jeep Wrangler JK (2007-2018) and Dodge RAM (2009-2012)

Vratzn Android 13 Car Radio Stereo 2GB+64GB

Vratzn Android 13 Car Radio Stereo User Manual

Model: Android 13 Car Radio Stereo 2GB+64GB

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Vratzn Android 13 Car Radio Stereo. Please read this manual thoroughly before using the product to ensure proper functionality and safety. This unit is designed to enhance your in-car entertainment and navigation experience with advanced features.

1.1 Compatible Car Models

This car radio is compatible with the following vehicle models. Please verify your vehicle's year, size, and center console shape before purchase and installation.

- Dodge Ram Pickup 1500/2500/3500 (2009-2012)
- Jeep Wrangler/Unlimited (2007-2018)
- Jeep Compass (2009-2016)
- Jeep Patriot (2009-2016)
- Jeep Grand Cherokee (2005-2011)
- Jeep Liberty (2008-2011)
- Jeep Commander (2008-2011)
- Chrysler Sebring (2007-2010)
- Town&Country (2007-2010)
- Dodge Grand Caravan (2011-2014)
- Dodge Charger (2008-2010)

Applicable Car Models:

Compatible for Jeep Wrangler/
Unlimited 2007-2018

For Jeep Compass 2009-2016

For Jeep Patriot 2009-2016

For Jeep Grand Cherokee 2005-2011

For Jeep Liberty 2008-2011

For Jeep Commander 2008-2011

For Chrysler Sebring 2007-2010

For Town&Country 2007-2010

For Dodge Grand Caravan 2011-2014

For Dodge Charger 2008-2010

For Dodge Ram Pickup

1500/2500/3500 2009-2012



Figure 1.1: Compatible Car Models Overview

2. SAFETY INFORMATION

Always prioritize safety during installation and operation. Improper installation can lead to vehicle damage or personal injury. Operating the device while driving can distract you and cause accidents. Always adhere to local traffic laws and regulations.

- Do not attempt to install or repair the unit yourself if you are not qualified. Consult a professional installer.
- Ensure all wiring is correctly connected to prevent short circuits or electrical damage.
- Do not operate the unit's complex functions while driving. Use voice commands or pull over safely.
- Keep the volume at a level that allows you to hear external traffic sounds.

3. PACKAGE CONTENTS

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

Accessories



			
RCA cable	Power Cable	Crowbar	Can Bus
			
camera	Rearview camera and video input cable	Antenna	External microphone
			
USB cable	Manual	Screwdriver	GPS antenna

Figure 3.1: Included Accessories

- Vratzn Android 13 Car Radio Stereo Unit
- RCA Cable
- Power Cable
- Crowbar (for trim removal)
- Can Bus Decoder
- HD Backup Camera
- Rearview Camera and Video Input Cable
- Radio Antenna
- External Microphone
- USB Cable
- User Manual
- Screwdriver
- GPS Antenna

4. SETUP AND INSTALLATION

Professional installation is recommended. If you choose to install it yourself, proceed with caution and ensure the vehicle's battery is disconnected before starting.

4.1 Pre-Installation Steps

1. **Disconnect Battery:** Disconnect the negative terminal of your vehicle's battery to prevent electrical shorts.
2. **Remove Old Radio:** Carefully remove the existing car radio and trim panels using the provided crowbar or appropriate tools.
3. **Inspect Wiring:** Familiarize yourself with your vehicle's wiring harness and the new unit's connectors.

4.2 Wiring Connections

Refer to the wiring diagram below and the included manual for specific connections. Ensure all connections are secure.



Figure 4.1: Main Unit Connection Diagram

- Connect the power connector to the vehicle's harness.
- Connect the RCA connector for audio/video outputs.
- Connect the 8-pin connector (if applicable).
- Connect the 4-pin and 6-pin USB cables.
- Connect the rear camera cable.
- Connect the adapter for the FM antenna.
- Connect the GPS antenna.

4.3 Rearview Camera Installation

The included rearview camera provides parking assistance. Follow these steps for proper connection:



Figure 4.2: Rearview Camera Wiring Diagram

1. Connect the black cable of the camera to the vehicle's ground (GND).
2. Connect the red cable of the camera to the backup light's positive (+) terminal.
3. Connect the camera's video output cable to the designated rearview camera input on the car radio unit.
4. If the rear camera does not function after initial connection, disconnect the red wire of the camera from its original link and reconnect it to the BACK wire of the power cable (usually brown).

4.4 Final Installation

1. **Mount Unit:** Secure the car radio unit into the dashboard opening.
2. **Reinstall Trim:** Reattach any removed trim panels.
3. **Reconnect Battery:** Reconnect the negative terminal of the vehicle's battery.
4. **Test Functionality:** Turn on the vehicle and test all functions of the new car radio.

5. OPERATING INSTRUCTIONS

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

5.1 Basic Controls

- **Power Button:** Press to turn the unit on/off.
- **Volume Knob:** Rotate to adjust the audio volume.
- **Menu Button:** Access the main menu or settings.
- **Touchscreen:** Navigate through menus and applications by touching the screen.

5.2 Wireless CarPlay & Android Auto

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



Figure 5.1: Wireless CarPlay and Android Auto Interface

1. Ensure your phone's Bluetooth and Wi-Fi are enabled.
2. On the car radio, select the CarPlay or Android Auto application.
3. Follow the on-screen prompts to pair your phone. For Android Auto, a wired connection may be required for initial setup.
4. Once connected, you can access phone contacts, emails, notifications, map navigation, music, and videos directly from the car radio screen.

5.3 GPS Navigation & WiFi Connection

The unit supports online maps and allows installation of various Android applications.



Figure 5.2: Android 13 Features and App Support

1. **WiFi Connection:** Go to Settings > Network & Internet > Wi-Fi to connect to an available Wi-Fi network.
2. **GPS Navigation:** Once connected to Wi-Fi, open a navigation app (e.g., Google Maps) to use online maps. The built-in GPS module provides accurate positioning.
3. **App Installation:** Access the Application Store to download and install other Android apps.

5.4 Bluetooth Functionality

Enjoy hands-free calling and wireless music streaming.

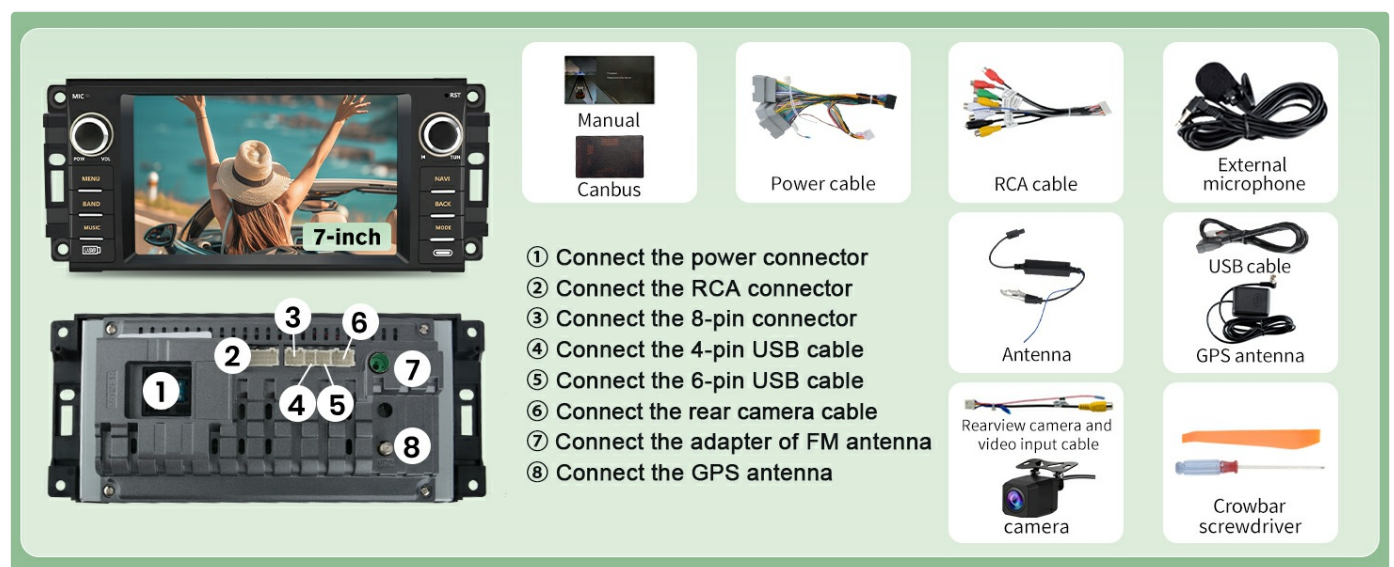


Figure 5.3: Bluetooth Hands-Free Calling

1. **Pairing:** Go to Settings > Bluetooth on the car radio. Enable Bluetooth and search for available devices on your phone. Select the car radio's name to pair.
2. **Hands-Free Calling:** Once paired, you can make and receive calls directly from the car radio screen. The built-in microphone picks up your voice, and car speakers output the audio.
3. **Music Streaming:** Play music from your smartphone via Bluetooth.

5.5 FM/AM Radio

Tune into your favorite radio stations for news, traffic, and entertainment.



Figure 5.4: FM/AM Radio Interface

- Select the 'Radio' application from the main menu.
- Use the tuning controls to find stations or select from preset stations.
- Save your favorite stations to the preset buttons for quick access.

5.6 Steering Wheel Control (SWC)

Integrate your vehicle's steering wheel controls for convenient operation.

How to install an aftermarket rearview camera?

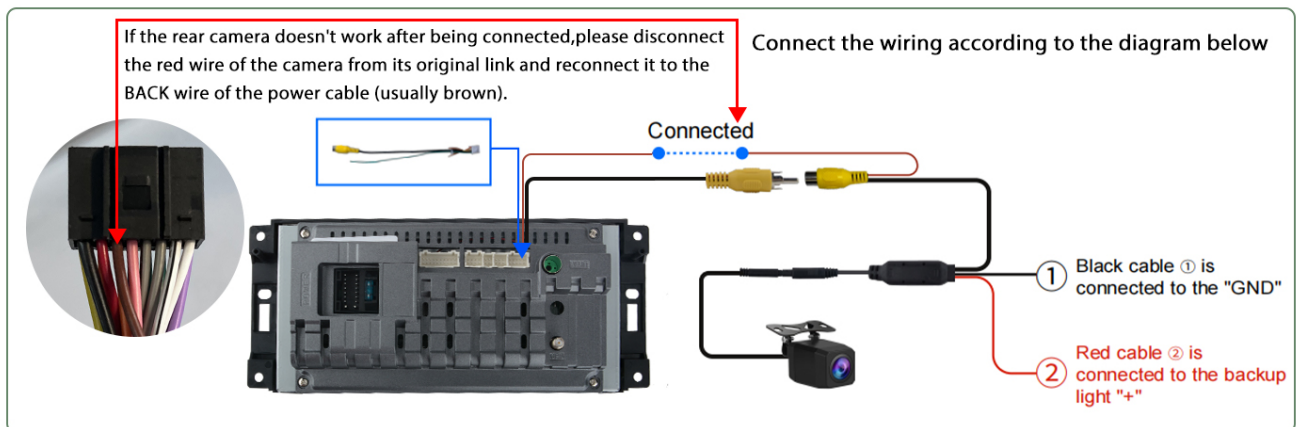


Figure 5.5: Steering Wheel Control Configuration

- Access the 'Steering Wheel Control' settings in the unit's menu.
- Follow the on-screen instructions to map your vehicle's steering wheel buttons to the desired functions (e.g., volume up/down, next/previous track, answer/hang up call).

5.7 Built-in DSP & EQ

Customize your audio experience with the Digital Signal Processing (DSP) and Equalizer (EQ) features.

Built-in DSP & EQ

Adjustable soundstage, effects, surrounds and more for fuller bass, smoother treble and richer midrange



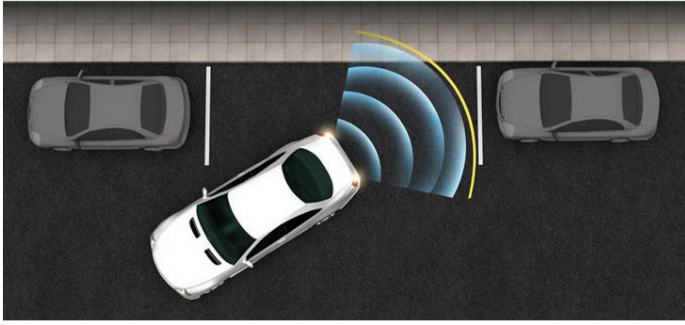
Figure 5.6: DSP and EQ Settings

- Access the 'Sound' or 'DSP' application from the main menu.
- Adjust the equalizer settings to fine-tune bass, treble, and midrange frequencies.
- Utilize DSP features for soundstage adjustments, effects, and surround sound to optimize audio output for your vehicle's interior.

5.8 Reversing Camera Function

The unit automatically displays the rearview camera feed when the vehicle is in reverse.

Parking assistance



You can install a rear camera with an RCA connector. When your car is reversing in reverse, it will automatically provide parking aid lines.

Reversing display



The radio supports a camera that connects via a USB cable and images can be displayed on the radio's large screen.

Figure 5.7: Reversing Camera Display

- When the vehicle is shifted into reverse, the screen will automatically switch to the rearview camera display.
- Parking aid lines will be displayed on the screen to assist with maneuvering.

6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your car radio.

- **Cleaning:** Use a soft, dry cloth to clean the screen and unit. For stubborn smudges, a slightly damp cloth with a mild, non-abrasive cleaner can be used. Avoid harsh chemicals.
- **Software Updates:** Periodically check for software updates through the unit's settings menu (if available) to ensure you have the latest features and bug fixes. A stable internet connection is required for updates.
- **Avoid Extreme Temperatures:** Do not expose the unit to extreme heat or cold for extended periods, as this can affect performance and lifespan.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
Unit does not power on	Incorrect wiring; Blown fuse; Vehicle battery issue	Check power connections; Inspect vehicle fuses; Verify battery charge.
No sound output	Speaker wiring incorrect; Volume too low; Mute function active	Verify speaker connections; Increase volume; Disable mute.
Bluetooth not connecting	Bluetooth off on phone/unit; Pairing mode not active; Interference	Ensure Bluetooth is on; Activate pairing mode; Move closer to unit.
GPS signal weak/lost	GPS antenna obstructed/disconnected; Poor satellite coverage	Check GPS antenna connection and placement; Move to an open area.
Rearview camera not displaying	Camera wiring incorrect; Camera power issue	Check camera video and power connections (refer to Section 4.3).

Problem	Possible Cause	Solution
Touchscreen unresponsive	Software glitch; Unit frozen	Restart the unit (press and hold power button); Perform a factory reset (if accessible).

8. SPECIFICATIONS

Key technical specifications of the Vratzn Android 13 Car Radio Stereo.

Feature	Detail
Operating System	Android 13
CPU	4 Core
RAM	2GB
ROM (Internal Storage)	64GB
Display Size	7 Inches
Connectivity	Bluetooth, Wi-Fi, USB
Special Features	Wireless CarPlay, Android Auto, GPS Navigation, FM/AM Radio, Built-in DSP, Reversing Camera Support, Steering Wheel Control
Item Weight	3.08 pounds
Package Dimensions	11.5 x 9.53 x 3.98 inches
Manufacturer	Vratzn

9. WARRANTY AND SUPPORT

9.1 Product Warranty

This Vratzn Car Radio Stereo comes with a **1-Year Warranty** from the date of purchase. This 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.

9.2 Customer Support

For any questions, technical assistance, or warranty inquiries, please contact our customer support team. We are committed to providing prompt and helpful service.

Email: Vratzn-US@outlook.com

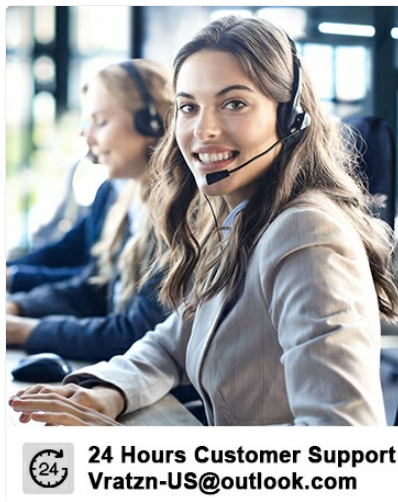


Figure 9.1: Vratzn Customer Support

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

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