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› AWESAFE Android 13 Head Unit 9-inch Touch Screen Car Stereo User Manual for Dodge RAM 1500 2500 (2002-2005)

## AWESAFE Android 13 Head Unit 2GB+32GB

# AWESAFE Android 13 Head Unit 9-inch Touch Screen Car Stereo User Manual

For Dodge RAM 1500 2500 (2002-2005)

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your AWESAFE Android 13 Head Unit. This 9-inch touchscreen car stereo is designed to integrate seamlessly into Dodge RAM 1500 and 2500 models from 2002 to 2005, offering modern features such as Wireless CarPlay, Android Auto, GPS navigation, and Bluetooth connectivity. Please read this manual thoroughly before installation and use to ensure proper functionality and safety.

## 2. PACKAGE CONTENTS

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

- AWESAFE Android 13 Head Unit (9-inch Touch Screen)
- Backup Camera (if included in your specific model)
- RCA Cable
- Power Cable
- Screwdriver
- Can Bus Decoder
- Crowbar (Pry Tool)
- Reversing Line (Video Input Cable for Backup Camera)
- Antenna
- Antenna Adapter Cable
- USB Cables (x2)
- External Speaker
- External Microphone
- GPS Module

# Package List

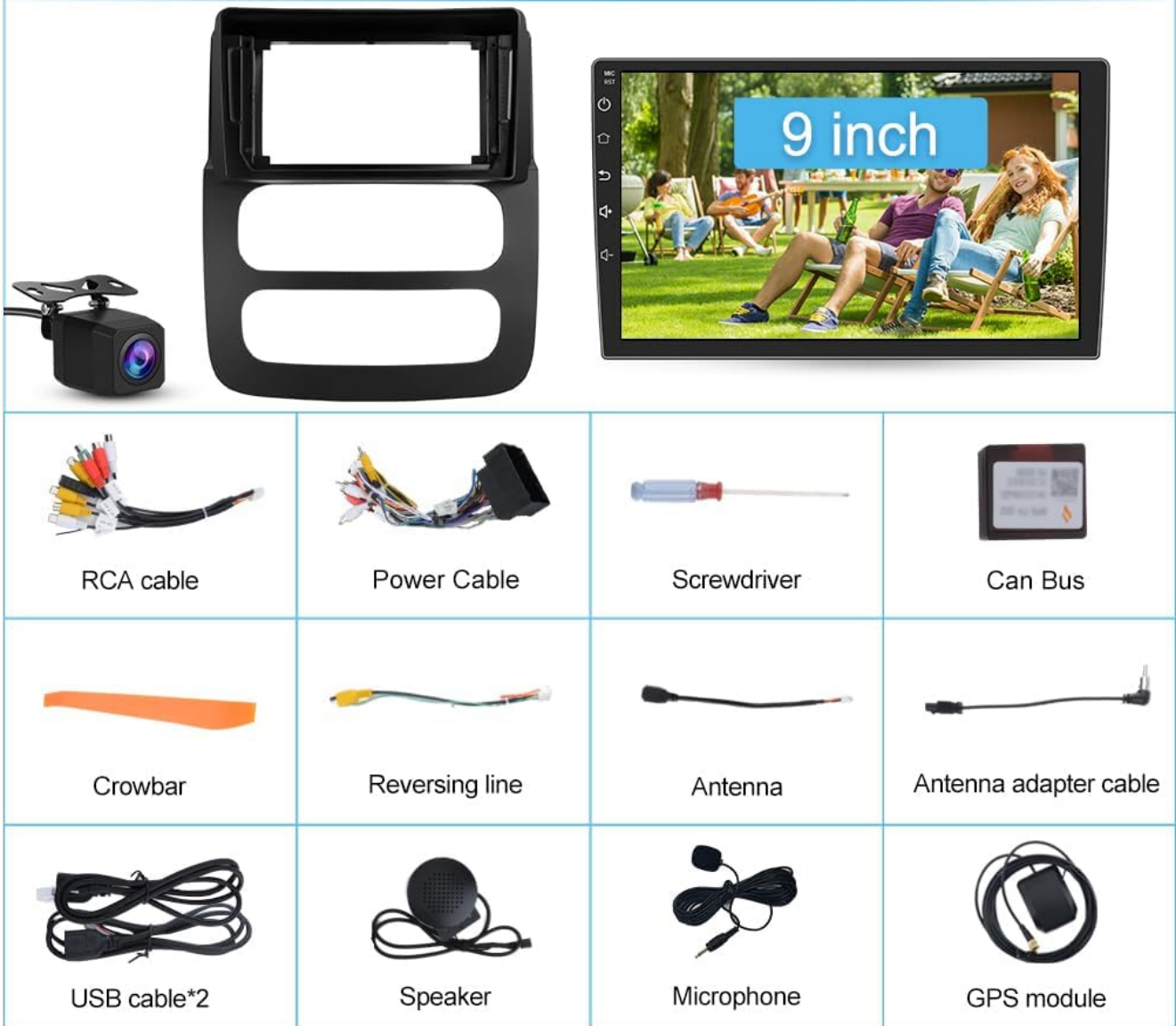


Figure 2.1: Included Package Components

## 3. INSTALLATION GUIDE

This section outlines the general installation process. Professional installation is recommended if you are unfamiliar with car audio systems.

### 3.1 Compatibility

This head unit is compatible with Dodge RAM 1500 and 2500 models manufactured between 2002 and 2005.

### 3.2 Pre-Installation Steps

1. **Disconnect Battery:** Before starting, disconnect the negative terminal of your vehicle's battery to prevent electrical shorts.
2. **Remove Old Head Unit:** Carefully remove the existing factory radio and trim panels using the provided crowbar and screwdriver. Refer to your vehicle's service manual for specific instructions on panel removal.



Figure 3.1: Before and After Head Unit Installation in a Dodge RAM

### 3.3 Wiring Connections

Connect the provided wiring harness to the vehicle's factory harness. Ensure all connections are secure. The included Can Bus decoder facilitates integration with vehicle systems.

- **Power Cable:** Connect the main power harness.
- **RCA Cables:** For external amplifiers or video outputs.
- **USB Cables:** For data transfer or charging devices.
- **GPS Module:** Connect the GPS antenna and mount it in a location with a clear view of the sky (e.g., dashboard).
- **Backup Camera:** Connect the reversing line and camera power.
- **Antenna:** Connect the radio antenna and adapter cable.
- **External Microphone:** Connect for improved call quality.

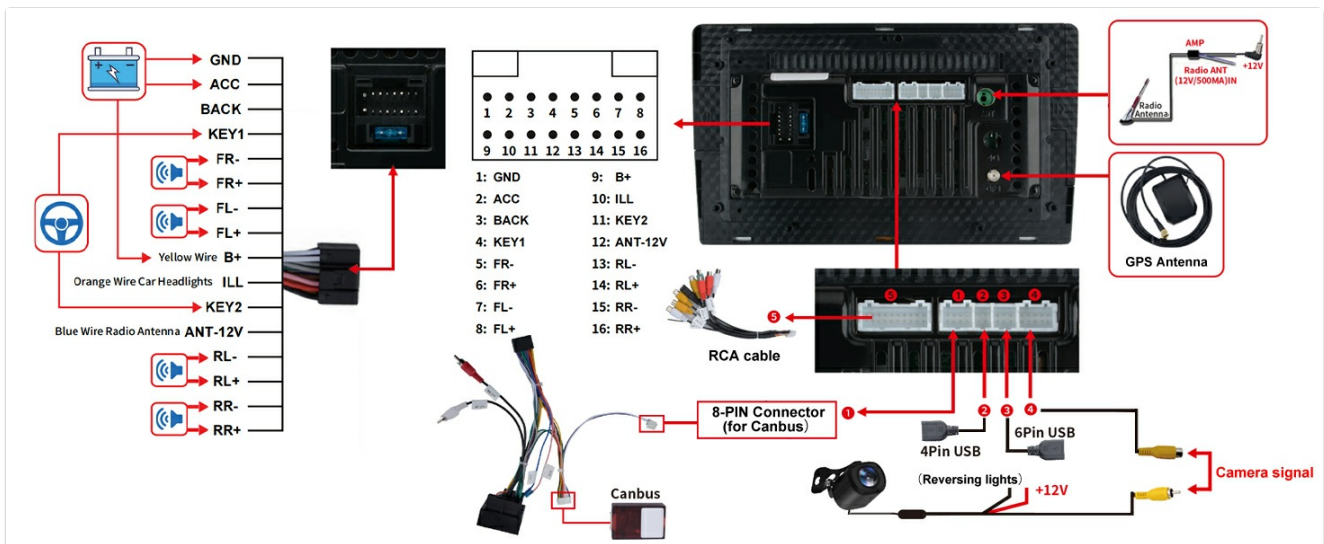


Figure 3.2: Wiring Diagram

### 3.4 Mounting the Head Unit

Once all connections are made, carefully slide the head unit into the dashboard opening and secure it with screws. Reinstall any trim panels removed earlier.

### 3.5 Post-Installation

Reconnect the vehicle's battery. Turn on the ignition and test the head unit's basic functions.

## Warm Tips



If your car plug is the same as the photo show, and there is no sound coming out after installation, then you need another power harness. Please let us know.

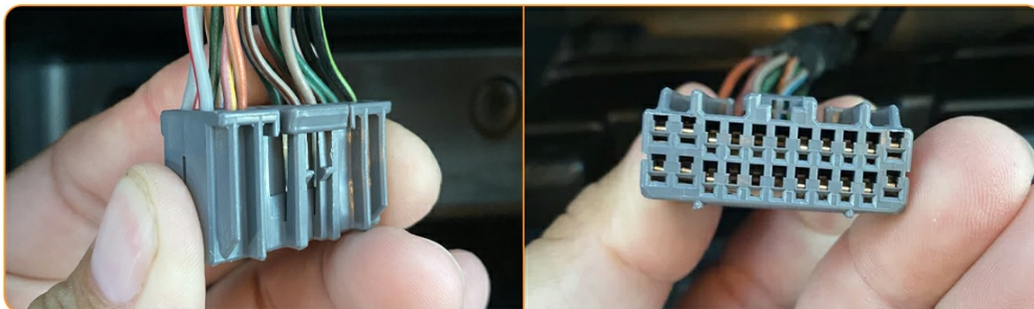


Figure 3.3: Power Harness Compatibility Tip

#### Important Note:

If your car's power plug matches the one shown in Figure 3.3 and you experience no sound after installation, you may require an alternative power harness. Please contact AWESAFE customer support for assistance.

## 4. INITIAL SETUP AND CONFIGURATION

After successful installation, perform the following initial setup steps:

1. **Power On:** Turn on your vehicle's ignition. The head unit should power on automatically.
2. **Language Settings:** Follow the on-screen prompts to select your preferred language.
3. **Wi-Fi Connection:** Navigate to Settings > Network & Internet > Wi-Fi. Connect to an available Wi-Fi network

to enable online features, app downloads, and map updates.

4. **Date and Time:** Set the correct date and time, or enable automatic synchronization via network.
  5. **GPS Calibration:** Ensure the GPS module is properly connected and placed. The system will automatically acquire satellite signals for navigation.
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## 5. OPERATING INSTRUCTIONS

This section details the primary functions of your AWESAFE Android 13 Head Unit.

### 5.1 Wireless CarPlay & Android Auto

Connect your iPhone or Android phone wirelessly or via USB for a seamless in-car experience.

1. **Wireless Connection:** Enable Bluetooth and Wi-Fi on your smartphone. On the head unit, open the CarPlay/Android Auto application. Follow the on-screen instructions to pair your phone via Bluetooth. Once paired, the system will establish a Wi-Fi connection for full functionality.
2. **USB Connection:** Connect your smartphone to one of the head unit's USB ports using a compatible USB cable. The system should automatically launch CarPlay or Android Auto.

Once connected, you can use voice commands or the touchscreen to access navigation, make calls, send messages, and play music.



Figure 5.1: Wireless CarPlay Interface

## 5.2 GPS Navigation

The head unit supports online and offline navigation. After connecting to Wi-Fi, you can download maps and use GPS navigation anywhere.

1. **Online Maps:** With an active Wi-Fi connection, use pre-installed map applications or download your preferred navigation apps from the application store.
2. **Offline Maps:** Download map data for specific regions to use navigation without an internet connection.

# GPS Navigation

The car stereo GPS function built-in Offline Map of North America, support online and offline maps, when you connect WiFi you can use the GPS navigation anywhere.



Figure 5.2: GPS Navigation Display

## 5.3 Bluetooth Connectivity

Connect your smartphone via Bluetooth for hands-free calling and audio streaming.

1. **Pairing:** Go to the Bluetooth menu on the head unit. Enable Bluetooth on your phone and search for available devices. Select the head unit (usually named 'AWESAFE' or similar) and confirm the pairing code.
2. **Hands-Free Calling:** Once paired, you can answer/make calls directly from the head unit. The built-in microphone captures your voice, and car speakers output the audio.
3. **Audio Streaming:** Play music from your phone through the car's speakers. Control playback (play/pause, skip) from the head unit.



Figure 5.3: Bluetooth Interface for Calls and Music

## 5.4 FM Radio

Access local radio stations with the built-in FM tuner.

1. **Scan:** Use the auto-scan function to find and save available radio stations.
2. **Manual Tuning:** Manually tune to specific frequencies.
3. **Presets:** Save your favorite stations for quick access.



Figure 5.4: FM Radio Interface

## 5.5 Backup Camera

The system automatically displays the rear view when the vehicle is shifted into reverse gear, providing parking assistance.

1. **Automatic Activation:** When the vehicle is in reverse, the head unit will automatically switch to the backup camera display.
2. **Guidelines:** Dynamic trajectory guidelines may appear on the screen to assist with parking.



Figure 5.5: Backup Camera View

## 5.6 Steering Wheel Control

The head unit supports integration with your vehicle's existing steering wheel controls for convenient operation.

1. **Configuration:** Access the Steering Wheel Control settings in the head unit's menu.
2. **Learning Function:** Follow the on-screen instructions to program each button on your steering wheel to its corresponding function (e.g., volume up/down, track skip, answer call).



Figure 5.6: Steering Wheel Control Setup

## 6. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your head unit.

- **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 when connected to Wi-Fi. Updates can improve performance, add features, and fix bugs.
- **General Care:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.

## 7. TROUBLESHOOTING

Refer to this section for solutions to common issues.

Problem	Possible Cause	Solution
No power to the head unit.	Loose power connection, blown fuse, incorrect wiring.	Check all power cable connections. Inspect vehicle fuses and the head unit's fuse. Ensure correct wiring according to the diagram.
No sound from speakers.	Incorrect wiring, volume too low, mute activated, incompatible power harness.	Verify speaker wiring. Increase volume. Check if mute is active. If your car's power plug matches Figure 3.3, you may need a different power harness.
CarPlay/Android Auto not connecting.	Bluetooth/Wi-Fi off on phone, incorrect pairing, faulty USB cable.	Ensure Bluetooth and Wi-Fi are enabled on your phone. Repair the device. Try a different USB cable if connecting wired.
GPS signal weak or inaccurate.	GPS antenna obstructed or improperly placed.	Relocate the GPS antenna to a position with a clear view of the sky (e.g., dashboard, under windshield).

Problem	Possible Cause	Solution
Backup camera image is finicky or not displaying.	Loose video cable connection, camera power issue, incorrect reverse trigger wire.	Check the reversing line connection at both the camera and the head unit. Ensure the camera is receiving power. Verify the reverse trigger wire is correctly connected.
Unit turns off when volume is loud.	Overload protection, insufficient power supply.	Reduce volume. Check power wiring for proper gauge and secure connections. Ensure vehicle's electrical system can support the unit.

If the problem persists after attempting these solutions, please contact AWESAFE customer support.

## 8. SPECIFICATIONS

Feature	Detail
Operating System	Android 13
RAM	2GB
Internal Storage	32GB
Display Size	9 Inches
Touch Screen Type	Capacitive
Connectivity	Bluetooth, Wi-Fi
Special Features	Wireless CarPlay, Android Auto, GPS Navigation, Backup Camera Support
Vehicle Service Type	Truck (Dodge RAM 1500/2500 2002-2005)
Item Weight	4.6 pounds
Package Dimensions	15.16 x 12.6 x 5.63 inches
Mounting Type	Dashboard Mount

## 9. WARRANTY AND SUPPORT

### 9.1 Product Warranty

This AWESAFE head unit comes with a 1-year manufacturer's warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, accident, misuse, abuse, unauthorized modifications, or natural disasters.

### 9.2 Customer Support

For technical assistance, warranty claims, or any questions regarding your AWESAFE product, please contact our customer support team:

Email: [AWESAFE-US@outlook.com](mailto:AWESAFE-US@outlook.com)

Operating Hours: 24 Hours Customer Support



Figure 9.1: AWESAFE Customer Support

