ZWNAV B093DF4WZ4

ZWNAV Tesla Style Android Radio User Manual

Model: B093DF4WZ4 for Dodge Ram 1500 (2019-2021)

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of your ZWNAV Tesla Style Android Radio. This multimedia head unit is designed to replace the factory radio in Dodge Ram 1500 models from 2019 to 2021, offering advanced features such as GPS navigation, wireless CarPlay, Android Auto, and a large touch screen display.

Image 1.1: Before and After Installation of the ZWNAV Tesla Style Android Radio in a Dodge Ram 1500.

2. SETUP AND INSTALLATION

Professional installation is highly recommended for this product. Incorrect installation may lead to damage to the unit or vehicle. Ensure the vehicle's power is disconnected before beginning installation.

2.1 Package Contents

Verify that all components are present in the package:

- Main Head Unit
- Power Cable
- Vehicle Mount
- GPS Antenna
- USB Adapter
- RCA Cable

- Video Input Cable
- Microphone
- WiFi Antenna

Rockchip PX6 RX3399

ZWNAV is equipped with a new 64-bit PX6 6-core processing chip . Compared with the PX5 8 core processor , it has been improved not only a little bit, but the higher performance also makes the car experience smoother and faster

PX6
RK3399

4GB
RAM

64GB
RAM

Image 2.1: Included Installation Kits and Cables.

①CAMERA POWER

②BACK ⑤AUX IN R

③VIDEO IN ⑥AUX IN L

④S.CAM IN ⑦CAMERA

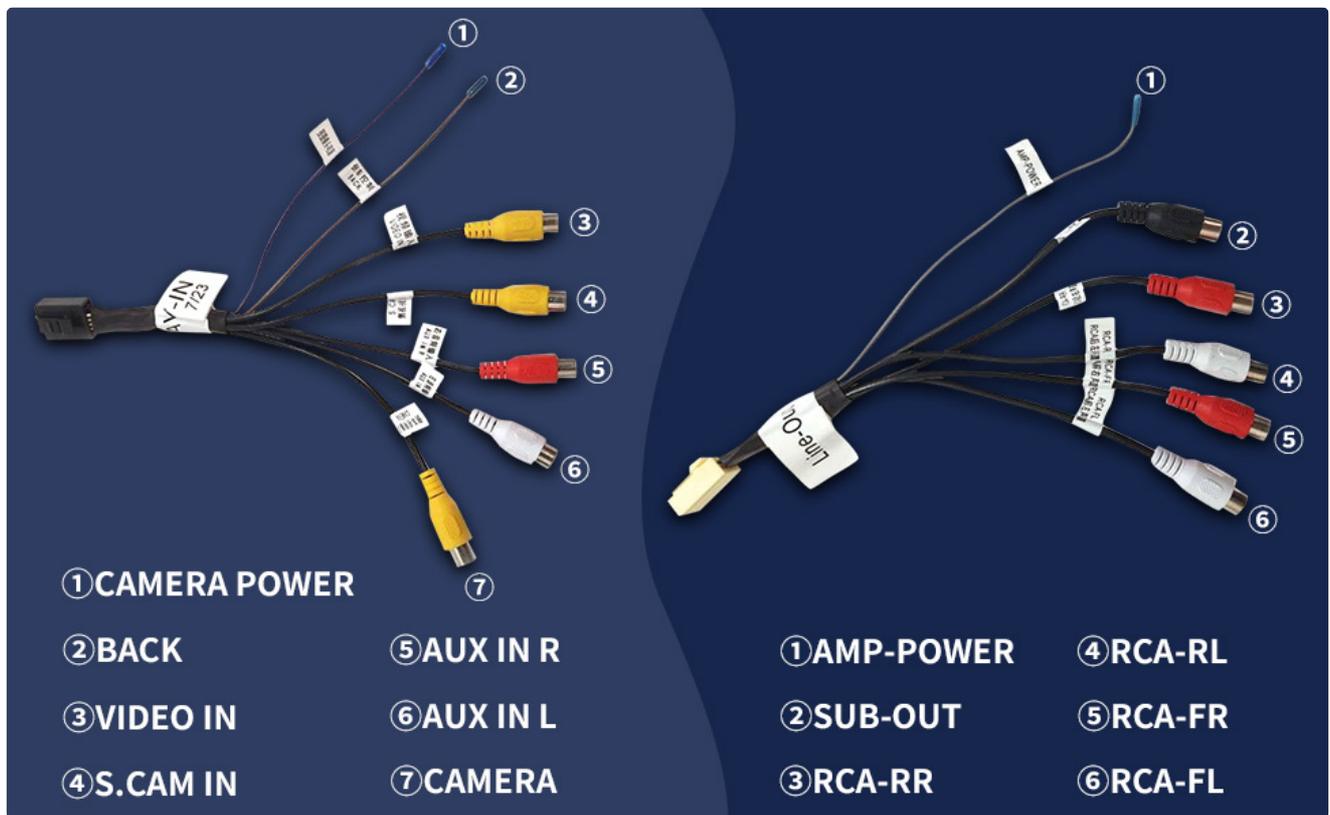①AMP-POWER ④RCA-RL

②SUB-OUT ⑤RCA-FR

③RCA-RR ⑥RCA-FL

Image 2.2: RCA and Video Output/Input Cables.

2.2 Wiring Diagram

Refer to the provided wiring diagram for correct connections. Ensure all cables are securely connected to their respective ports.

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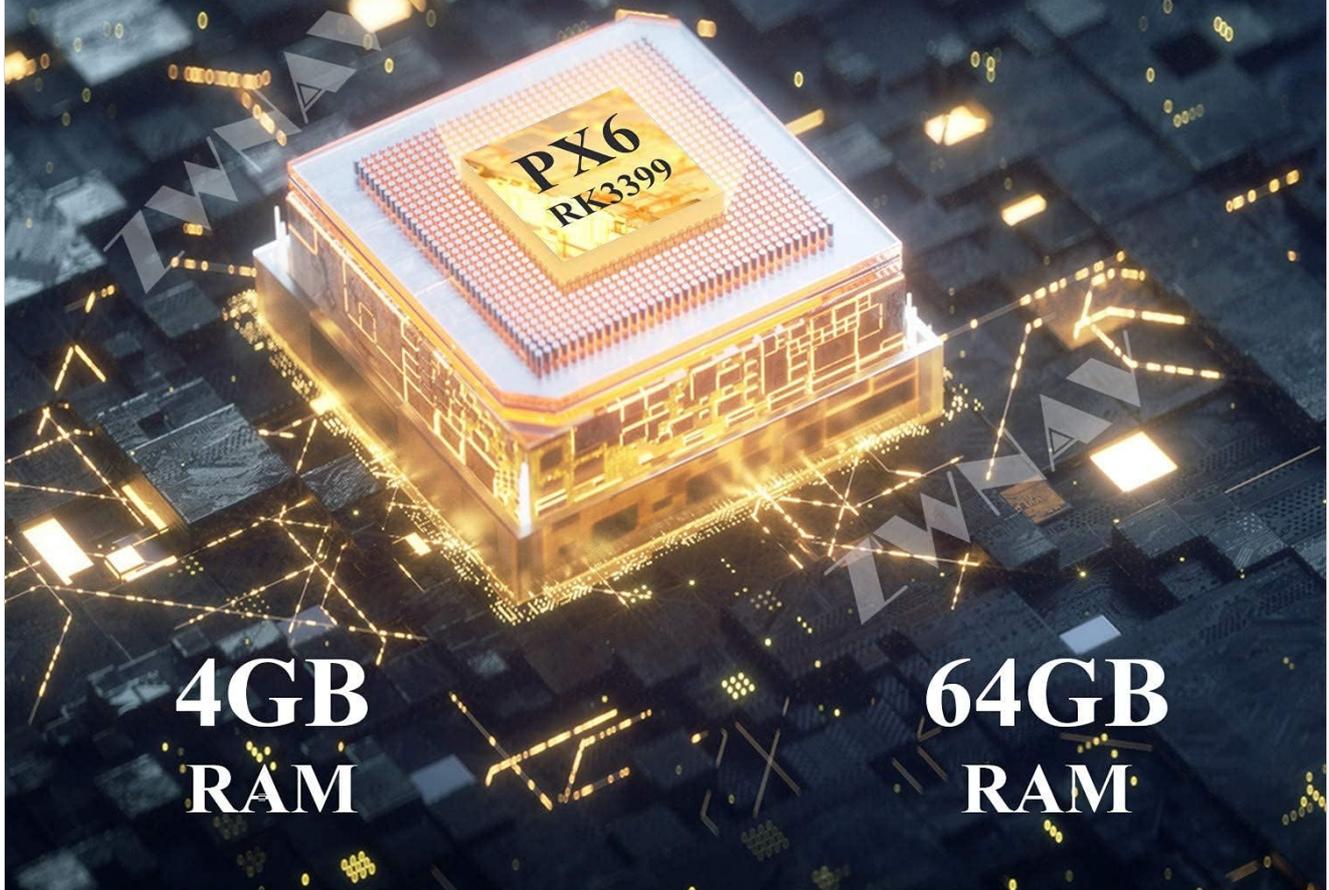
PX6 RK3399

4GB RAM

64GB RAM

Image 2.3: Wiring Diagram for the Head Unit.

2.3 Initial Power-On

After installation, reconnect the vehicle's power. The unit should power on automatically. Follow any on-screen prompts for initial setup, including language selection and time zone.

3. OPERATING INSTRUCTIONS

This section details the primary functions and features of your ZWNAV Android Radio.

3.1 User Interface Navigation

The large touch screen allows for intuitive navigation. Swipe left/right to access different home screens, tap icons to open applications, and use the bottom bar for quick access to common functions like climate control (if integrated) and volume.

3.2 GPS Navigation

The unit comes with built-in GPS functionality. Access the Navigation app from the main menu. Ensure the GPS antenna is properly installed for optimal signal reception. You can download and use various navigation applications from the app store.

3.3 Audio and Multimedia Playback

The unit supports various audio and video sources:

- **Radio (RDS)**: Tune into FM/AM stations. The Radio Data System (RDS) provides additional information like station name and song title.
- **USB Playback**: Connect USB drives to the provided USB interfaces for music and video playback.
- **Bluetooth Audio**: Pair your smartphone via Bluetooth to stream audio wirelessly.
- **App-based Media**: Use pre-installed or downloaded apps for streaming music and videos.

Image 3.1: Multimedia and Connectivity Icons.

3.4 Wireless CarPlay and Android Auto

Connect your smartphone wirelessly to access CarPlay or Android Auto. This allows for seamless integration of phone features like navigation, music, calls, and messages directly on the head unit's screen.

Support split screen function

Support split screen function, you can play video while using navigation function. But not all software can use split screen function, some software can only run in full screen

Support the steering wheel control function of the original car

After installing this product, you can control the addition and subtraction of sound through the steering wheel buttons, switch the previous music to the next music, etc.

Image 3.2: Wireless CarPlay Functionality.

3.5 Digital Sound Processor (DSP)

The built-in DSP system features a 16-band equalizer and sound effects settings. Adjust speaker delay and sound field to optimize your audio experience. This unit utilizes a TDA7850 power amplifier chip for high-fidelity sound.

Image 3.3: Built-in DSP System Interface.

3.6 Split Screen Function

Utilize the split screen feature to run two applications simultaneously, such as navigation and video playback. Note that not all applications support split screen mode.

Support HDMI interface

This product has a DP interface that can be converted to an HDMI interface, and can be connected to the rear seat screen or car roof screen for high-definition video output

Two USB interface

It is equipped with two USB interface extension cables, which can be connected to external devices such as DVR, 4G adapter, DAB and so on.

Image 3.4: Split Screen Functionality.

3.7 Steering Wheel Controls

The unit supports the original vehicle's steering wheel control functions, allowing you to adjust volume, change tracks, and manage calls without taking your hands off the wheel.

Support HDMI interface

This product has a DP interface that can be converted to an HDMI interface, and can be connected to the rear seat screen or car roof screen for high-definition video output

Two USB interface

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Image 3.5: Steering Wheel Control Integration.

3.8 Rear View Camera Support

Connect a compatible rear view camera to the unit for enhanced parking assistance and safety. The display automatically switches to the camera feed when reversing.
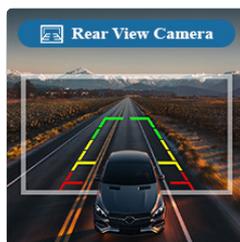
Image 3.6: Rear View Camera Support.

3.9 HDMI Output

The unit features a DP interface that can be converted to an HDMI interface, allowing connection to rear seat screens or car roof screens for high-definition video output.

All installation kits are in the package

Our product comes with GPS antenna, USB adapter, RCA cable, video input cable, power cord, etc. All installation kits are in the package.It can be used normally without purchasing any other accessories or cables
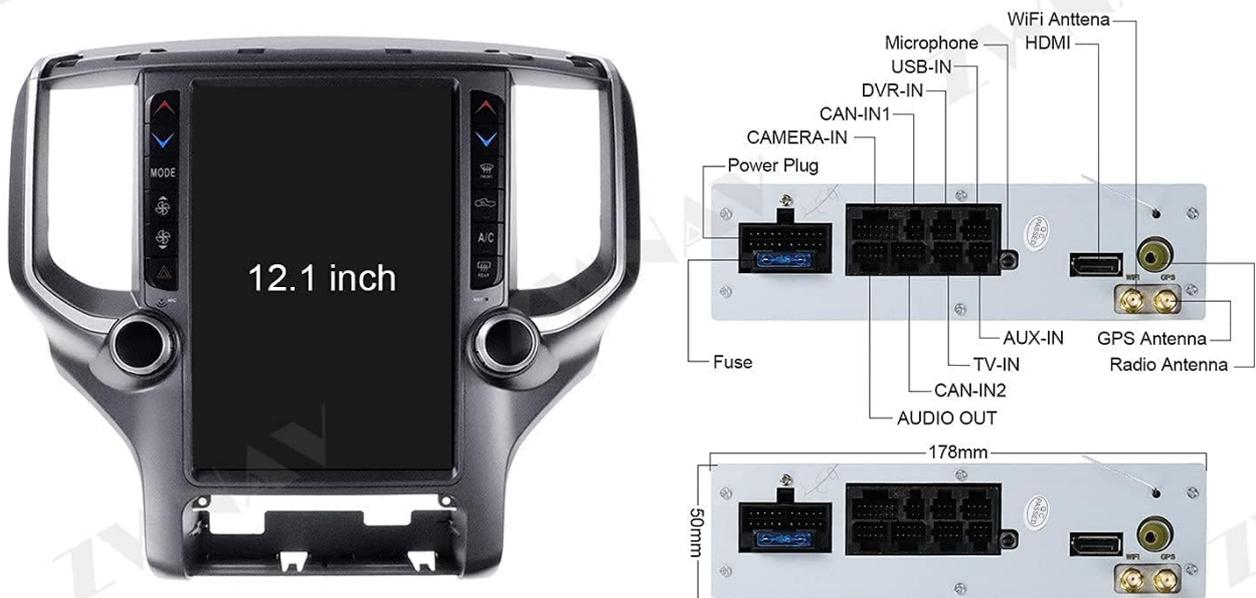

Image 3.7: HDMI Output for External Displays.

3.10 App Download and Wi-Fi Connectivity

Connect to Wi-Fi to download additional applications from the Google Play Store, expanding the functionality of your head unit.

Image 3.8: App Download and Wi-Fi Icons.

3.11 Product Demonstration Video

Watch this video for a demonstration of the ZWNAV Tesla Style Android Radio's features and user interface.

Your browser does not support the video tag.

4. MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Android Radio.

4.1 Screen Cleaning

Use a soft, lint-free cloth slightly dampened with water or a screen-specific cleaning solution to clean the touch screen. Avoid harsh chemicals or abrasive materials that could damage the screen surface.

4.2 Software Updates

Periodically check for software updates to ensure you have the latest features and performance improvements. Updates can typically be found in the system settings menu or on the manufacturer's website.

5. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

- **No Power**: Check all power connections and vehicle fuses. Ensure the unit is correctly installed.
- **No Sound**: Verify speaker connections. Check volume levels and DSP settings. Ensure Bluetooth audio is not connected to another device.
- **GPS Not Working**: Ensure the GPS antenna is properly connected and has a clear view of the sky. Check GPS settings in the system menu.
- **Touch Screen Unresponsive**: Try restarting the unit. If the issue persists, a factory reset might be necessary (refer to system settings).
- **Bluetooth/Wi-Fi Connectivity Issues**: Ensure Bluetooth/Wi-Fi is enabled on both the unit and your device. Try re-pairing or reconnecting.
- **Steering Wheel Controls Not Functioning**: Verify wiring connections for steering wheel control. Check settings within the unit to ensure proper configuration.

For persistent issues, contact ZWNAV customer support or a qualified technician.

6. SPECIFICATIONS

Key technical specifications for the ZWNAV Tesla Style Android Radio:

Feature	Specification
Model Number	B093DF4WZ4
Operating System	Android
Display Size	12 Inches
Item Weight	11.82 pounds
Package Dimensions	21.2 x 19.8 x 9.4 inches

Feature	Specification
Voice Command	Microphone, Touchscreen
Connectivity Technology	Bluetooth, Wi-Fi
Special Features	Wireless CarPlay, Parking Assist
Map Type	Road
Included Components	Power cable, Vehicle mount
Audio Output Mode	Speaker, Stereo
Mounting Type	Dashboard Mount
Processor	Rockchip PX6 6-core (RX3399)
RAM	4GB
Internal Storage	64GB

Image 6.1: ZWNAV Android Radio in a Dodge Ram 1500.

7. WARRANTY AND SUPPORT

ZWNAV products typically come with a manufacturer's warranty. Please refer to the warranty card included with your product or visit the official ZWNAV website for detailed warranty terms and conditions.

7.1 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact ZWNAV customer support through their official website or the contact information provided in your product packaging.