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aonnav BMW Z4 E89

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Model: BMW Z4 E89 (2009-2018)

1. PRODUCT OVERVIEW

The aonnav 10.25-inch Android 13 Car Radio Multimedia Player is designed to upgrade the stock radio system in BMW Z4 (E89) models manufactured between 2009 and 2018, specifically those equipped with the original CIC system (featuring a factory screen and iDrive controller). This unit provides advanced multimedia and navigation capabilities, enhancing the in-car experience.



Figure 1: Front view of the aonnav 10.25-inch Android 13 Car Radio Multimedia Player, showcasing its large touchscreen display.

2. SAFETY INFORMATION

Please read all instructions carefully before installation and operation. Improper installation or use may result in damage to the product, vehicle, or personal injury. Always consult a qualified professional for installation if you are unsure about any steps. Ensure

the vehicle's power is disconnected before beginning any installation procedures.

3. PACKAGE CONTENTS

The product package typically includes:

- Main Screen Unit
- Power Adapter
- GPS Antenna
- 4G Antenna
- USB Cable(s)
- iDrive Cable (if applicable for your vehicle configuration)
- Necessary Accessories for installation

4. INSTALLATION GUIDE

Installation of the aonnav multimedia player requires careful disassembly and reassembly of vehicle interior components. It is recommended to watch the full installation video before attempting the process. Ensure the vehicle's battery is disconnected before starting.

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Video 1: A detailed installation guide for the aonnav 10.25-inch Android Screen in a BMW Z4 E89, covering the steps for removing existing components and integrating the new head unit.

Key Installation Steps:

1. **Prepare the Vehicle:** Ensure the vehicle is turned off and the battery is disconnected. Use plastic pry tools to prevent scratching interior surfaces.
2. **Remove Center Console Trim:** Carefully pry up the trim around the gear shifter and iDrive controller. Disconnect any electrical connectors.
3. **Remove Radio Unit:** Unscrew and gently pull out the original radio unit from the dashboard. Disconnect all cables from the back of the radio.
4. **Remove Dashboard Trim:** Use pry tools to remove the dashboard trim panel above the radio, which houses the air vents and hazard light button. Disconnect associated cables.
5. **Install New Screen:** Connect the new screen's cables to the appropriate ports, ensuring all connections are secure. Route cables neatly to avoid interference.
6. **Connect Wiring Harness:** Connect the provided wiring harness to the vehicle's original harness and the new head unit. Pay close attention to fiber optic cables if your vehicle is equipped with them; they may need to be transferred to the new adapter plug (refer to the troubleshooting section for details).
7. **Test Functionality:** Before fully reassembling, reconnect the battery and test the basic functions of the new unit, including power, display, touch response, and sound.
8. **Reassemble Components:** Carefully reassemble all removed trim pieces and the original radio unit in reverse order of disassembly.



Figure 2: Diagram illustrating the transfer of fiber optic cables from the original vehicle plug to the new adapter plug, a critical step for vehicles equipped with fiber optics.

5. OPERATING INSTRUCTIONS

The aoonav multimedia player runs on the latest Android 13 system, offering a user-friendly interface and a wide range of features.

5.1 System Features

- **Operating System:** Android 13
- **Memory:** 8GB RAM + 64GB ROM for high performance and stability.
- **Display:** 10.25-inch IPS HD 2K Capacitive Touch Screen (1920*720 resolution) with 178° full-viewing angle.
- **Audio:** Built-in DSP and 4*60W surround stereo output for immersive sound.

5.2 Connectivity

- **Wireless Apple CarPlay & Android Auto:** Connect your smartphone via charging cable or Bluetooth for seamless access to music, navigation, and phone calls.
- **Wi-Fi & 4G:** Built-in Wi-Fi module and support for 4G SIM card use (with hotspot sharing from your phone) for online maps and internet access.
- **Bluetooth 5.1:** Stable connection for hands-free calls, phone book download, and music streaming.



Figure 3: The car radio display showing the user interfaces for both Wireless Apple CarPlay and Android Auto, highlighting smartphone integration capabilities.

5.3 Multimedia and Navigation

- **Radio Tuner:** Supports AM/FM radio.
- **USB Playback:** USB interface for media playback and device charging.
- **AUX Input:** Auxiliary input for external audio devices.
- **Video Playback:** Supports 4K video.
- **GPS Navigation:** Compatible with online maps (e.g., IGO Map, Waze) and offline maps.



Figure 4: The aonnav car radio screen displaying a detailed GPS navigation map, indicating its built-in navigation functionality.

5.4 Additional Functions

- **Air Conditioning Control:** Integrated control for vehicle air conditioning.
- **Steering Wheel Control:** Supports original steering wheel controls for convenience.
- **EQ Settings:** Customizable equalizer settings for personalized audio.
- **Camera Support:** Supports original OEM 360 camera or aftermarket rear cameras, with automatic power-on when shifting into reverse gear.

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Video 2: This video demonstrates the user interface and key functionalities of the aonnav Android 13 Car Radio, including navigation, music playback,

6. MAINTENANCE

To ensure optimal performance and longevity of your aonnav multimedia player, follow these general maintenance guidelines:

- **Regular Cleaning:** Use a soft, dry cloth to clean the screen and exterior surfaces. Avoid abrasive cleaners or solvents.
- **Software Updates:** Periodically check for and install available software updates to ensure the system runs efficiently and has the latest features and security patches.
- **Avoid Extreme Temperatures:** Do not expose the unit to extreme heat or cold for extended periods, as this can affect performance and lifespan.
- **Cable Management:** Ensure all cables are securely connected and not pinched or damaged, which can lead to connectivity issues.

7. TROUBLESHOOTING

If you encounter issues with your aonnav multimedia player, refer to the following common problems and solutions:

- **No Sound or Audio Issues (e.g., only one side speakers, static):**
 - **Check Fiber Optic Cables:** If your original vehicle is equipped with fiber optic cables, ensure they have been correctly transferred from the original vehicle plug to the new adapter plug. Incorrect transfer is a common cause of audio issues.
 - **Verify Connections:** Double-check all wiring harness connections to ensure they are fully seated and secure.
 - **System Settings:** Navigate to the system's audio settings to ensure volume levels are appropriate and no specific audio channels are muted or unbalanced.
- **iDrive Controller Not Functioning / Idrive Brackets Not Fitting:**
 - **Check Compatibility:** Ensure the specific unit variant is compatible with your vehicle's original iDrive system. Some installations may require minor customization or specific brackets.
 - **Wiring:** Verify the iDrive cable connection is correct and secure.
- **Unit Randomly Shuts Off:**
 - **Power Connection:** Inspect the main power connections for any loose wires or inadequate power supply.
 - **Overheating:** Ensure the unit has adequate ventilation and is not overheating.
 - **Software Glitch:** Perform a factory data reset (refer to the settings menu) as a last resort, ensuring you back up any important data first.
- **Steering Wheel Controls Malfunctioning:**
 - **Wiring:** Confirm the steering wheel control wires are correctly connected to the new unit's harness.
 - **Configuration:** Access the system settings to configure or recalibrate steering wheel controls.
- **iDrive Not Working (Black Screen / No Signal):**
 - **Car Type Setting:** Go to **Settings -> About -> Factory settings -> 666666 -> BMW settings -> Car type** . Select the corresponding original car system type. If your original car is a low config car (without an original screen), you need to select "OFF".

8. SPECIFICATIONS

Item Weight	4.4 pounds
Product Dimensions	10.25 x 10.25 x 10.25 inches
Display Size	10.25 Inches
Screen Size	10.25 Inches
Operating System	Android 13
Special Feature	Bluetooth, Radar Warning, Touchscreen, Waterproof, Wireless Carplay
Connectivity Technology	Bluetooth, Ethernet, USB, Wi-Fi
Map Type	Worldwide
Audio Output Mode	AUX
Mounting Type	Dashboard Mount

9. WARRANTY AND SUPPORT

Your aonav multimedia player comes with a one-year warranty. For any questions regarding installation, operation, or technical support, please contact aonav customer service. We offer 30-day money-back, 12-month replacement, and lifetime technical support.

Contact information for support is typically available through your purchase platform or the manufacturer's official channels.