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› [ZWNAV](#) /

› [ZWNAV 14.4 Inch Android Car GPS Navigation Multimedia Player Instruction Manual](#)

## ZWNAV SYNC3

# ZWNAV 14.4 Inch Android Car GPS Navigation Multimedia Player

Instruction Manual for Ford F150, F250, and Raptor (2015-2021) with SYNC3

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your ZWNAV 14.4 Inch Android Car GPS Navigation Multimedia Player. This advanced head unit is designed to enhance your driving experience with its large display, powerful Android 13 operating system, and comprehensive multimedia capabilities.

The unit features a 14.4-inch 1920x1080 HD resolution display, an 8-core Qualcomm 665 CPU, 8GB RAM, and 128GB ROM, ensuring smooth performance. It includes built-in Wireless CarPlay and Wired Android Auto, DSP, 4G SIM support, Google Play Store access, Wi-Fi, and Bluetooth connectivity. It is compatible with original vehicle features such as reverse cameras, SONY CD players, steering wheel controls, seat heating/cooling fans, and factory 360-degree cameras.

## 2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these guidelines may result in injury, damage to the unit, or damage to your vehicle.

- **Professional Installation Recommended:** Due to the complexity of vehicle electrical systems, professional installation is highly recommended to ensure proper function and avoid damage.
- **Power Disconnection:** Always disconnect the vehicle's battery before performing any installation or wiring work to prevent electrical shorts.
- **Wiring:** Ensure all wiring connections are secure and properly insulated to prevent short circuits and fire hazards.
- **Driving Safety:** Do not operate the unit's advanced features or watch videos that may distract you while driving. Always prioritize road safety.
- **Temperature:** Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.

## 3. PACKAGE CONTENTS

Verify that all components are present in the package before beginning installation:

- ZWNAV 14.4 Inch Head Unit (1)
- Wiring Harnesses and Cables (various)
- GPS Antenna (1)
- USB Cables (2)
- External Microphone (1)
- Installation Brackets/Mounting Hardware (as required)

## 4. SETUP AND INSTALLATION

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This Android car radio is specifically designed for Ford Raptor F150 2015-2021 and F250 models with SYNC1, SYNC2, or SYNC3 systems. The unit is designed for a plug-and-play installation, integrating seamlessly with your vehicle's existing systems.

### 4.1 Compatibility

- **Vehicle Models:** Ford F150 (2015-2021), Ford F250 (2015-2021), Ford Raptor (2015-2021)
- **SYNC Systems:** Compatible with SYNC1, SYNC2, and SYNC3.

### 4.2 Installation Steps (General)

1. **Prepare Vehicle:** Ensure the vehicle is turned off and the battery is disconnected.
2. **Remove Original Unit:** Carefully remove the existing factory radio and trim panels. Refer to your vehicle's service manual for specific instructions.
3. **Connect Wiring:** Connect the provided wiring harnesses to the vehicle's factory connectors. Ensure all connections are secure. Connect the GPS antenna, USB cables, and external microphone.
4. **Mount Head Unit:** Securely mount the ZWNAV head unit into the dashboard opening using the provided brackets and hardware.
5. **Test Functionality:** Reconnect the vehicle's battery and power on the unit. Test all functions, including audio, navigation, Bluetooth, and steering wheel controls, before reassembling the dashboard.
6. **Reassemble:** Carefully reassemble all trim panels and components.



Figure 4.1: Rear view of the ZWNAV head unit, illustrating the various ports for power, audio, USB, GPS, and other connections. This view is crucial for understanding wiring during installation.

## 5. OPERATING INSTRUCTIONS

Your ZWNAV head unit operates on an Android 13 system, providing a familiar and intuitive user interface similar to a tablet or smartphone.

### 5.1 Basic Operation

- **Power On/Off:** The unit typically powers on with the vehicle's ignition. A long press on the power button (if available) may turn it off or put it into standby.
- **Touchscreen Interface:** Navigate through menus and applications by tapping, swiping, and pinching on the 14.4-inch touchscreen.
- **Home Screen:** The main screen displays frequently used apps and widgets. You can customize the layout by adding or removing widgets and app shortcuts.
- **Volume Control:** Adjust volume using the on-screen controls or the vehicle's steering wheel controls.

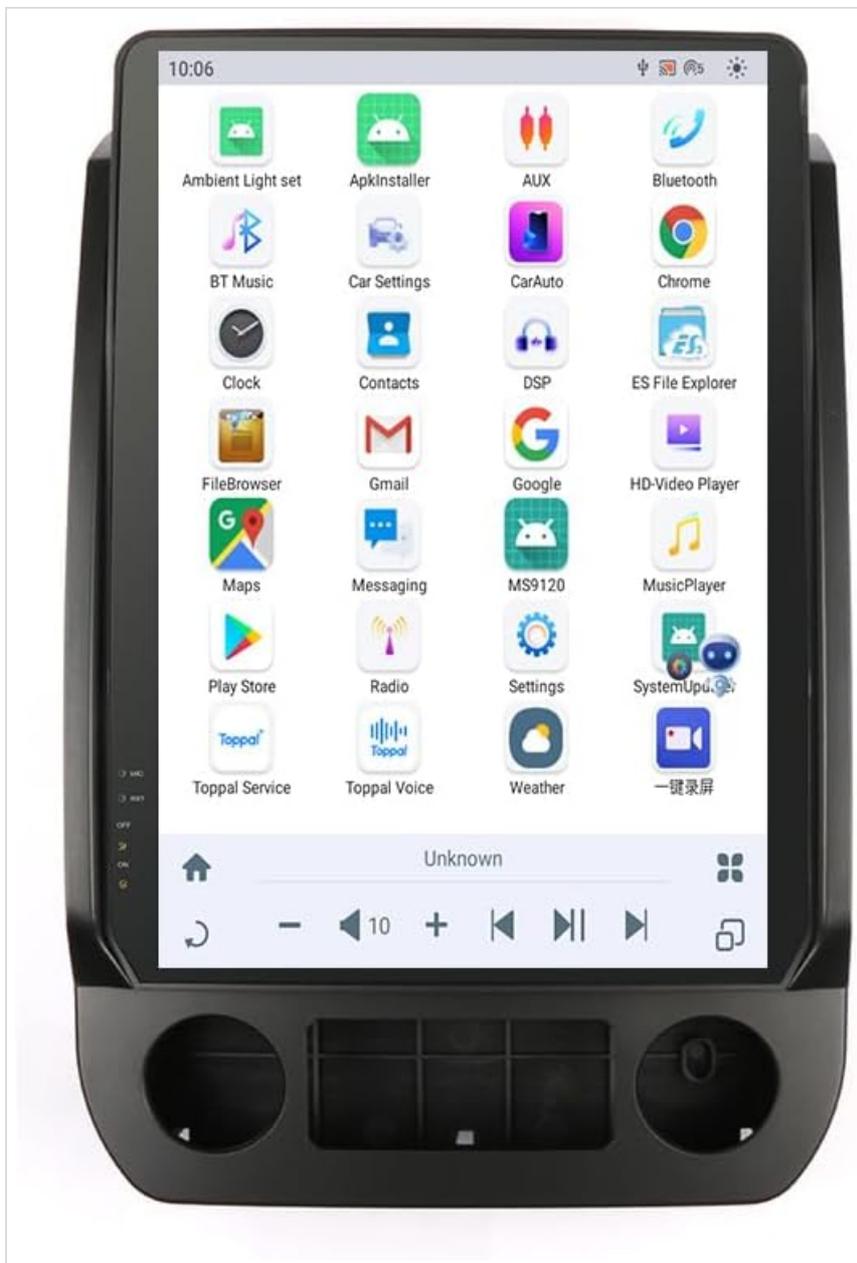


Figure 5.1: The ZWNAV head unit's Android home screen, showcasing the large display and the array of pre-installed applications such as navigation, music, settings, and more.

## 5.2 Key Functions

- **GPS Navigation:** Utilize pre-installed navigation apps or download your preferred ones from the Google Play Store. The unit supports online navigation via Wi-Fi or 4G.
- **Radio (FM/AM):** Access and save your favorite radio stations.
- **Bluetooth:** Connect your smartphone for hands-free calling and audio streaming.
- **USB/AUX:** Play media from USB drives or external audio devices via the AUX input.
- **Multimedia Player:** Play various audio and video formats.
- **Steering Wheel Control:** The unit supports learning original steering wheel buttons for convenient control of audio and calls.
- **CarPlay & Android Auto:** Connect your smartphone wirelessly (CarPlay) or via USB (Android Auto) for seamless integration of phone features, navigation, and apps.
- **Voice Control:** Use voice commands through Siri (for CarPlay) or Google Assistant (for Android Auto) to control navigation, calls, and music.
- **Wi-Fi & 4G Network:** Connect to Wi-Fi hotspots or insert a 4G SIM card for internet access, enabling online navigation, video streaming (YouTube, Netflix), and app downloads.
- **Google Play Store:** Download and install a wide range of Android applications.

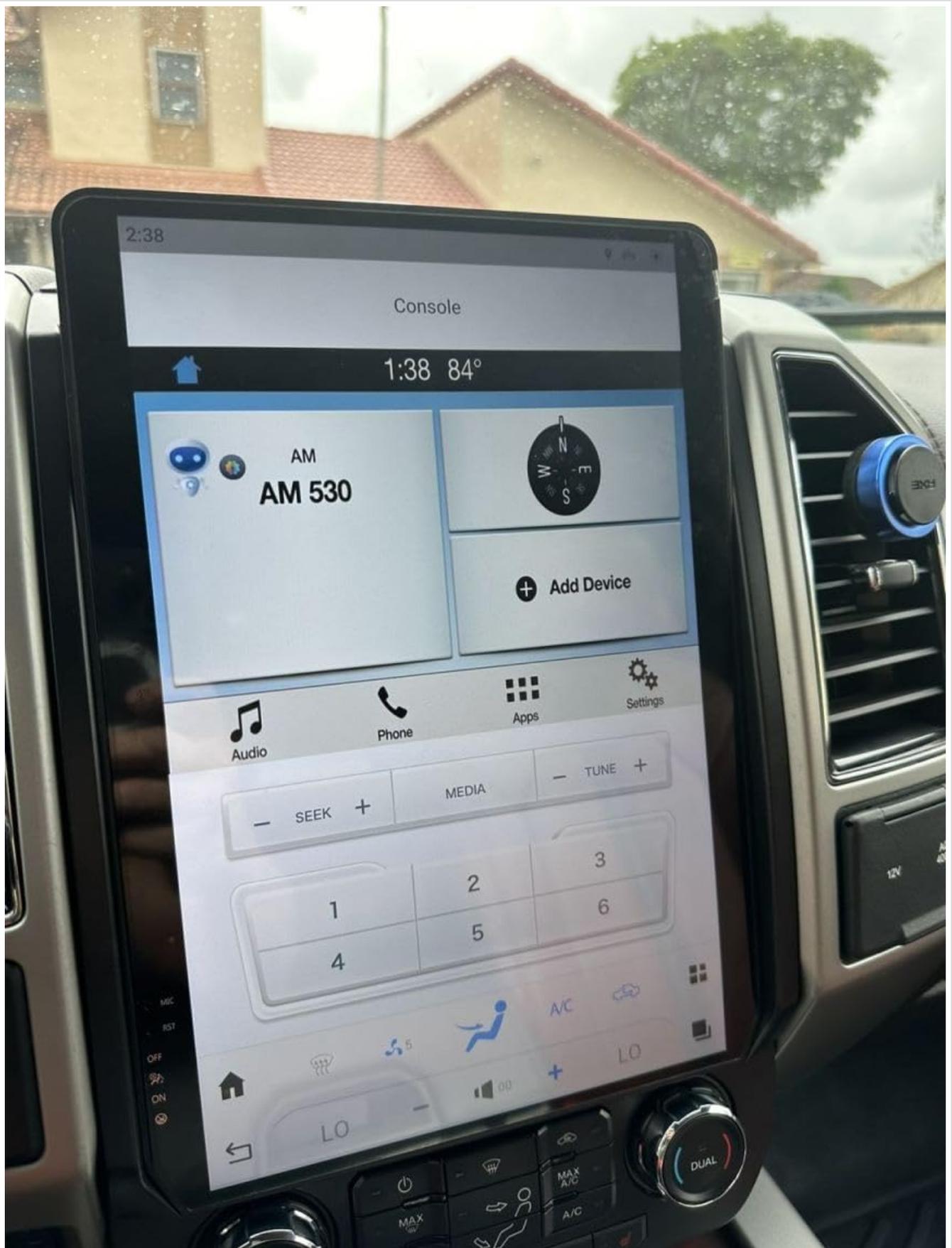


Figure 5.2: The ZWNAV unit integrated into a Ford F-150 dashboard, displaying the console view. This image highlights how the large screen seamlessly replaces the factory radio and integrates with the vehicle's climate controls.



Figure 5.3: A broader view of the ZWNAV unit installed in a Ford F-150 interior. This perspective demonstrates the impressive size of the 14.4-inch screen and its modern aesthetic within the vehicle's cabin.

### 5.3 Integration with Original Vehicle Features

The unit is designed to retain and support several original vehicle functions:

- **Original Reverse Camera:** Supports the display from your vehicle's factory reverse camera.
- **Original SONY CD:** Maintains compatibility with the original SONY CD player.

- **Seat Heating and Cooling Fans:** Supports control and display for original seat heating and cooling functions.
- **Factory 360-Degree Cameras:** Compatible with vehicles equipped with factory 360-degree camera systems.

## 6. FEATURES OVERVIEW

The ZWNAV 14.4 Inch Android Car GPS Navigation Multimedia Player offers a robust set of features:

- **Operating System:** Upgraded Android 13
- **Processor:** 8-Core Qualcomm 665 CPU
- **Memory & Storage:** 8GB RAM + 128GB ROM
- **Display:** 14.4-inch 1920x1080 HD Resolution Touchscreen
- **Connectivity:** Built-in Wireless CarPlay & Wired Android Auto, Bluetooth, Wi-Fi, 4G SIM support
- **Audio:** Digital Sound Processor (DSP) for enhanced audio quality
- **Navigation:** GPS with online and offline map support
- **Multimedia:** FM Radio, USB, AUX IN, Music Player, Video Player
- **App Support:** Google Play Store for downloading various applications (e.g., YouTube, Netflix, Facebook)
- **Vehicle Integration:** Supports original steering wheel control, reverse camera, SONY CD, seat heating/cooling, and factory 360-degree cameras.

## 7. MAINTENANCE

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

- **Screen Cleaning:** Use a soft, lint-free cloth specifically designed for electronic screens. Do not use abrasive cleaners or solvents. Gently wipe the screen to remove dust and fingerprints.
- **General Cleaning:** Keep the unit free from dust and debris. Use a soft, dry cloth to wipe the exterior.
- **Software Updates:** Periodically check for software updates to ensure the unit has the latest features and bug fixes. Updates can typically be found through the unit's settings menu or the manufacturer's website.
- **Avoid Liquids:** Do not spill liquids on the unit. If liquid enters the unit, disconnect power immediately and consult a professional.

## 8. TROUBLESHOOTING

If you encounter issues with your ZWNAV head unit, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not power on	Loose power connection, blown fuse, vehicle battery issue	Check power wiring, inspect vehicle fuses, ensure vehicle battery is charged.
No sound	Volume too low, mute enabled, loose speaker wires, incorrect audio source	Increase volume, check mute settings, verify speaker connections, select correct audio source.
GPS signal lost/inaccurate	GPS antenna obstructed or disconnected, poor satellite coverage	Ensure GPS antenna is properly installed and has a clear view of the sky. Check antenna connection.
Bluetooth not connecting	Bluetooth off on unit or phone, device not in pairing mode, interference	Ensure Bluetooth is enabled on both devices. Put phone in pairing mode. Try restarting both devices.
Touchscreen unresponsive	Software glitch, unit frozen	Restart the unit (if possible, by holding power button) or perform a soft reset.

If the problem persists after attempting these solutions, please contact ZWNAV customer support for further assistance.

## 9. SPECIFICATIONS

Detailed technical specifications for the ZWNAV 14.4 Inch Android Car GPS Navigation Multimedia Player:

Feature	Specification
Brand	ZWNAV
Model	SYNC3 (Compatible with Ford F150/F250 2015-2021)
Part Number	61258128 (ZW-2025061101)
Operating System	Android 13
CPU	Qualcomm 665 (8 Core)
RAM	8GB
ROM	128GB
Screen Size	14.4 inches
Screen Resolution	1920x1080 HD
Special Features	Touchscreen, Built-in Wireless CarPlay & Wired Android Auto, DSP, 4G SIM Support
Connectivity	Bluetooth, Wi-Fi, GPS
Mounting Hardware	Unit, Cables
Number of Items	9 (including unit and cables)
Batteries Required	No
Item Weight	4.2 Kilograms
Package Dimensions	34.29 x 26.67 x 19.05 cm
Date First Available	10 May 2024

## 10. WARRANTY AND SUPPORT

ZWNAV provides comprehensive support for its products.

### 10.1 Warranty Information

The ZWNAV 14.4 Inch Android Car GPS Navigation Multimedia Player comes with a **2-year warranty**. This warranty covers manufacturing defects and ensures the product meets its specified performance standards. Additionally, ZWNAV offers **lifetime after-sell service**, demonstrating commitment to customer satisfaction.

### 10.2 Customer Support

For any questions, technical assistance, or warranty claims, please contact ZWNAV customer support:

- **Email:** [zwnavgps@hotmail.com](mailto:zwnavgps@hotmail.com)
- **Amazon Support:** If purchased via Amazon, you can contact the seller by clicking on "ZWNAVGPS Official Store" and then selecting "Ask a question."

Before contacting support, please have your product model number (SYNC3) and purchase details ready to expedite the process.



### [Aerpro SWFO21C Steering Wheel Control Interface Installation Guide for Ford Vehicles](#)

Detailed installation guide for the Aerpro SWFO21C steering wheel control interface, designed for Ford Ranger vehicles (2018-2021). Learn how to retain factory steering wheel controls, integrate aftermarket stereos, and configure dipswitches for seamless vehicle integration.



### [NavLinkz RL4-SY3-R5 Video-Inserter Manual for Ford Sync Systems](#)

Comprehensive installation manual and technical guide for the NavLinkz RL4-SY3-R5 video-inserter, compatible with Ford Sync2.5, Sync Connected Radio, and Sync3 infotainment systems. Learn about features, installation, troubleshooting, and specifications.