

XTRONS B0CZKYYBF5

XTRONS 12.3 Inch Android 14 Car Stereo User Manual

Model: B0CZKYYBF5

1. PRODUCT OVERVIEW

This manual provides instructions for the XTRONS 12.3 Inch Android 14 Car Stereo, designed to upgrade the in-car entertainment system for specific BMW models. The unit features an Octa-core processor, 4GB RAM, 64GB ROM, and a 12.3-inch 1920x720 IPS touch screen.

Key features include:

- 12.3-inch 1920x720 HD IPS Display with wide viewing angles.
- Global 4G LTE connectivity (Micro-SIM card required, not included).
- Built-in Wireless Car Play and Wireless/Wired Android Auto.
- Latest Android 14 operating system with Octa-core processor and 4GB RAM, 64GB ROM.
- Retains original car functions and integrates OEM car-centric information.
- Bluetooth 5.0 for hands-free calls and music streaming.
- Dual Wi-Fi Band (2.4GHz or 5GHz) for faster internet.
- Multi-task Display and Picture-in-Picture (PIP) mode.
- USB Tethering for mobile network sharing.

2. APPLICABLE MODELS AND COMPATIBILITY

This unit is compatible with the following BMW models equipped with the NBT System:

- BMW 1 Series F20 / F21 (2011-2016) - Left Driving Vehicles
- BMW 2 Series F23 Cabrio (2013-2017) - Left Driving Vehicles

Important Note:

This unit only works with the original 1 Series F20/F21 and 2 Series F23 Cabrio NBT system. If your car has no audio AUX input, an FM transmitter (e.g., XTRONS CA/ITR/FM02 or CA/ITR/FM03) is required for installation.

Applicable Models & Years

For BMW 1 Series F20 / F21 (2011-2016) - Left Driving Vehicles

For BMW 2 Series F23 Cabrio (2013-2017) - Left Driving Vehicles



This unit **ONLY** works with the original 1 Series F20 F21 / 2 Series F23 Cabrio **NBT** system.

✓ NBT system



A 6 Pin LVDS port at the rear of the unit

Media button

Touch pad controller

A BMW ConnectedDrive interface

Important Notes on Compatibility

If your car comes with NO audio AUX input, you need to order a FM transmitter to aid for the installation. (XTRONS CA/ITR/FM02 and CA/ITR/FM03 are compatible.)



Figure 2.1: Applicable BMW models and NBT system interface. The image displays the original dashboard before and after the XTRONS unit installation, along with close-ups of the NBT system's LVDS port, media button, touch pad controller, and BMW ConnectedDrive interface. It also notes the requirement for an FM transmitter if the vehicle lacks an audio AUX input.

3. INCLUDED COMPONENTS

The product is delivered in two separate packages for better protection during transport: a Mounting Pack and a Main Unit Pack. Please verify all components are present before installation.

The following items are included in the box:

- 1 x ISO Wiring Harness
- 1 x Audio Cable
- 1 x GPS Antenna
- 1 x 4G Antenna
- 1 x USB Cable
- 1 x Tweezers
- 1 x Installation Instruction
- 1 x User Manual

- 1 x Mini Speaker



Figure 3.1: Product dimensions and a visual representation of all included accessories: ISO Wiring Harness, USB Cable, GPS Antenna, Audio Cable, 4G Antenna, Tweezers, User Manual, Installation Instruction, and Mini Speaker.

4. SETUP AND INSTALLATION

Installation of the XTRONS car stereo requires careful attention to wiring and component placement. It is recommended that installation be performed by a qualified professional or individuals with prior experience in car stereo installations, especially with BMW iDrive head unit swaps.

4.1 Wiring Harness Connection

Refer to the wiring diagram below and the included installation instructions for precise connections. Pay close attention to the fiber optic lines; they must be correctly transferred from the OEM plug to the aftermarket harness if applicable to your vehicle's specific setup.

Wiring Harness



- | | |
|--|-------------------------|
| 1. Mini speaker | 9. CAM IN, Camera input |
| 2. ISO port to connect to original CD player | 10. USB port 1 |
| 3. ISO wiring harness | 11. USB port 2 |
| 4. AUDIO OUT, Audio output | 12. 4G antenna |
| 5. REVERSE-IN, Reversing control cable | 13. GPS antenna |
| 6. P. CAM, Rear Camera ACC | 14. LVDS port |
| 7. ACC | 15. 4G SIM card slot |
| 8. MIC, Microphone port | |

Figure 4.1: Detailed wiring harness connections. Key connections include: 1. Mini speaker, 2. ISO port to connect to original CD player, 3. ISO wiring harness, 4. AUDIO OUT, 5. REVERSE-IN, 6. P. CAM, 7. ACC, 8. MIC, 9. CAM IN, 10. USB port 1, 11. USB port 2, 12. 4G antenna, 13. GPS antenna, 14. LVDS port, 15. 4G SIM card slot.

4.2 Initial Power-Up and Configuration

After installation, power on the unit. Follow the on-screen prompts for initial setup, including language selection, time zone, and network configuration. Ensure all original car functions are retained and operating correctly.

5. OPERATING INSTRUCTIONS

5.1 Display and Interface

The unit features a 12.3-inch IPS touch screen with a 1920x720 resolution, providing clear and vivid visuals. The interface is designed for ease of use, with multiple UI themes available for personalization.

● Smart Size, Fuller Display



*The images displayed are in a 1:1 aspect ratio.

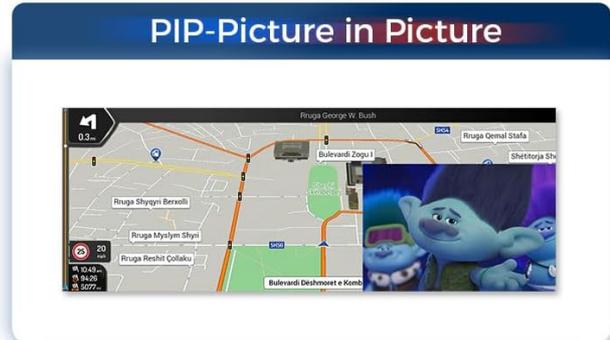


Figure 5.1: Visual comparison of display sizes and key screen features including multi-tasking, Picture-in-Picture (PIP), IPS touch screen responsiveness, and dual USB input ports.

5.2 Smartphone Integration (CarPlay & Android Auto)

The unit supports Wireless Car Play and Wireless/Wired Android Auto. Connect your iPhone wirelessly via Bluetooth or your Android phone wirelessly via Bluetooth or with a USB cable to access compatible apps, GPS, calls, music, and voice assistants (Siri/Google Assistant) directly from the head unit.

Display and Control Your Smartphone Wirelessly



Figure 5.2: Displaying wireless connectivity options for smartphones, including CarPlay, Android Auto, and screen mirroring, along with voice command examples for Siri and Google Assistant.

5.3 Internet Connectivity

The unit offers multiple options for internet access:

- **Global 4G LTE:** Insert a Micro-SIM card (not included) into the dedicated slot to access 4G mobile broadband. This supports internet data only, not phone calls.
- **Dual Wi-Fi Band:** Connect to 2.4GHz or 5GHz Wi-Fi networks for fast internet speed and flexibility.
- **USB Tethering:** Connect your smartphone via USB and enable "USB Tethering" (Android) or "Allow Others to Join" (iPhone) to share your phone's internet connection.

3 Options for Internet Access



LTE Cat 7
(up to **300Mbps**)



Support **99%**
of Carriers Worldwide



4G
LTE

*This unit accepts Micro-SIM card (not included). 4G supports internet SIM data only, not phone calls.

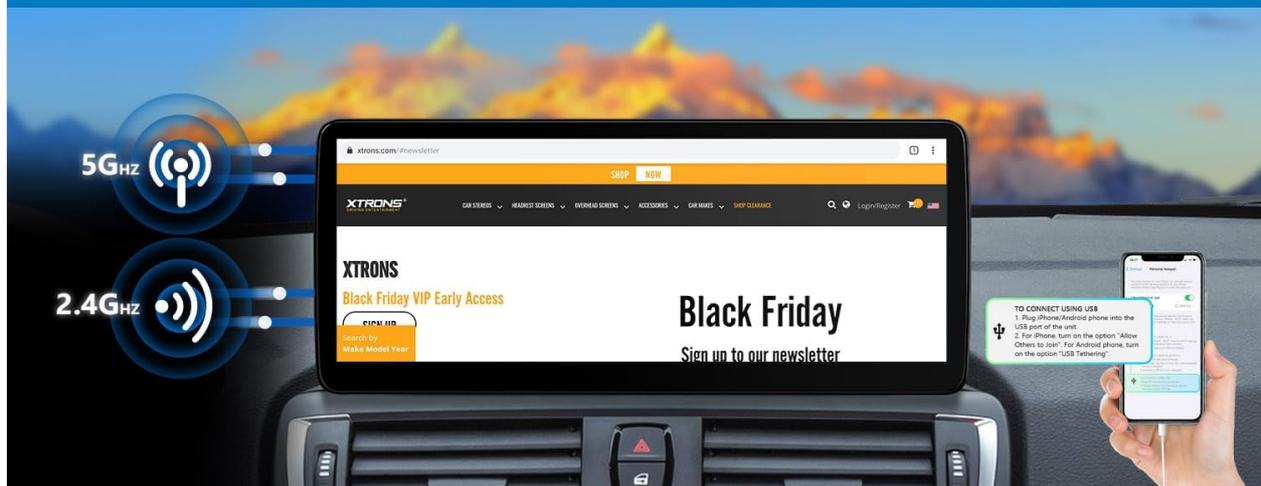


Figure 5.3: Internet access options, showing 4G LTE (up to 300Mbps, supporting 99% of carriers worldwide) via Micro-SIM card, and dual-band Wi-Fi (5GHz and 2.4GHz).

5.4 Multimedia and Navigation

Enjoy various multimedia options and navigation features:

- **2K Video Playback:** Supports high-resolution video playback.
- **Built-in DSP:** Digital Sound Processor for enhanced audio experience with equalizer, smart bass, loudness, balance, delay, and filter settings.
- **GPS Navigation:** Supports various Android navigation software including Sygic, IGO, Waze, and Google Maps.
- **Bluetooth 5.0:** For hands-free calls and high-quality music streaming.

5.5 Multi-tasking Features

The unit supports advanced multi-tasking capabilities:

- **Multi-task Display:** Simultaneously run two applications, such as music and navigation, on the 12.3-inch IPS screen.
- **Picture-in-Picture (PIP):** Watch videos in a small window while using other applications.

5.6 Retained Original Car Functions

The XTRONS unit seamlessly integrates with and retains many original BMW car functions:

- iDrive System control.
- Original fiber optic sound system (Amplifier System).
- Original radio and CD player.
- Original Bluetooth functionality.
- Backup Camera Display.
- Steering Wheel Control Function.
- OEM car-centric information display: speed, fuel level, safety warnings, engine speed, temperature, parking brake, seat belt reminder.



Figure 5.4: Display of original car information on the XTRONS unit, including speed, engine speed, remaining fuel, temperature, parking brake status, and seat belt reminder.

Original Functions Retained

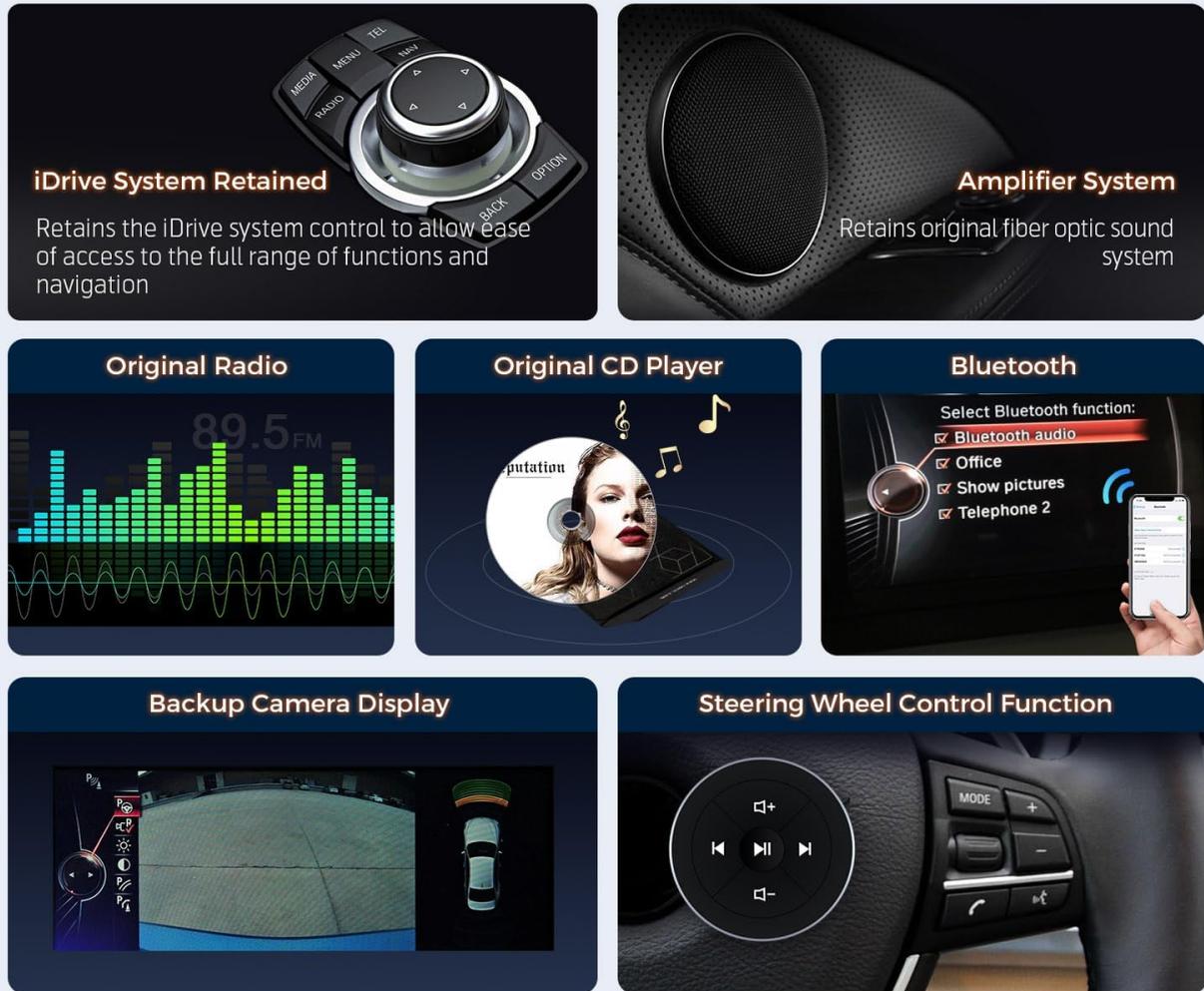


Figure 5.5: Overview of retained original functions: iDrive System, Amplifier System, Original Radio, Original CD Player, Bluetooth, Backup Camera Display, and Steering Wheel Control Function.

6. OPTIONAL ACCESSORIES AND SUPPORT ITEMS

The XTRONS car stereo supports various optional accessories to enhance its functionality:

- **DAB Radio:** USB DAB01/USB DAB02/USB DAB04
- **OBD:** OBD01S/OBD02/OBD03/QBD04 (for real-time data and trouble codes)
- **Keyboard:** AMK003
- **DVR:** DVR025S/DVR027S/DVR028S/ACWIFIDVR02
- **Camera:** CAM005/CAM018/CAM009S/CAM721/CAM1080 (Reversing AHD Camera)
- **MIC:** MIC001/MIC002/MIC003
- **TPMS:** TPMS07/TPMS08 (Tire Pressure Monitoring System)

7. SPECIFICATIONS

Feature	Specification
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Display Size	12.3 Inches
Resolution	1920 x 720
Operating System	Android 14
Processor	Octa-core
RAM	4GB DDR4
ROM	64GB Solid State
Connectivity Technology	Bluetooth, USB, Wi-Fi, Global 4G LTE
Special Features	Bluetooth, Global 4G, Touchscreen, Wireless Car Play, Wireless/Wired Android Auto, Built-in DSP, USB Tethering
Vehicle Service Type	Car
Mounting Type	Dashboard Mount
Audio Output Mode	Stereo
Map Type	North America (supports various Android navigation software)

8. MAINTENANCE

To ensure the longevity and optimal performance of your XTRONS car stereo, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the screen and exterior. Avoid abrasive cleaners or solvents.
- **Software Updates:** Periodically check for and install software updates provided by XTRONS to ensure the system runs efficiently and has the latest features and security patches.
- **Environmental Conditions:** Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **Cable Connections:** Ensure all cables are securely connected. Loose connections can lead to intermittent issues.

9. TROUBLESHOOTING

If you encounter issues with your XTRONS car stereo, refer to the following common troubleshooting steps:

- **No Power:** Check all power connections and fuses. Ensure the vehicle's ignition is on.
- **No Sound:** Verify speaker connections, volume settings, and audio source selection. If using an FM transmitter, ensure it is correctly configured.
- **Touch Screen Unresponsive:** Try restarting the unit. If the issue persists, a factory reset might be necessary (consult support before performing a factory reset).
- **GPS Not Working:** Ensure the GPS antenna is properly installed and has a clear view of the sky. Check GPS settings within the unit.
- **Bluetooth Connectivity Issues:** Ensure Bluetooth is enabled on both the stereo and your device. Try

unpairing and re-pairing the devices.

- **Wi-Fi/4G Connectivity Issues:** Check network settings, ensure SIM card is correctly inserted (for 4G), or verify Wi-Fi password and signal strength.
- **Original Car Functions Not Working:** Double-check all wiring harness connections, especially those related to the iDrive system and fiber optics. Incorrect wiring is a common cause for these issues.

For persistent issues or complex problems, contact XTRONS customer support or a certified car audio technician.

10. WARRANTY AND SUPPORT

10.1 Warranty Information

The XTRONS 12.3 Inch Android 14 Car Stereo comes with a **1-Year Manufacturer Warranty**. Please retain your proof of purchase for warranty claims.

For detailed warranty terms and conditions, refer to the warranty card included with your product or visit the official XTRONS website.

10.2 Customer Support

If you require further assistance, technical support, or have questions regarding your product, please contact XTRONS customer service through their official website or the contact information provided in your product packaging.

11. PRODUCT VIDEO OVERVIEW

Watch this video for a visual overview of the XTRONS QL Series car stereo features and functionalities.

Your browser does not support the video tag.

Video 11.1: An official XTRONS video showcasing the QL Series car stereo, highlighting its specifications, main features such as global 4G LTE, wireless CarPlay/Android Auto, built-in DSP, GPS navigation, dual-band WiFi, USB tethering, PIP mode, and multi-window view. It also covers optional accessories like DAB+ tuner and OBD2 support, and professional packaging.