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XTRONS QLB42THNBL

XTRONS 14.9-Inch Android 14 Car Stereo User Manual

Model: **QLB42THNBL** | Brand: **XTRONS**

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your XTRONS 14.9-inch Android 14 Car Stereo. This unit is designed to integrate seamlessly with specific BMW F-series models equipped with the NBT iDrive 4.0 system, enhancing your in-car entertainment and navigation experience.



Image 1.1: Front view of the XTRONS 14.9-inch Android 14 Car Stereo unit.

2. COMPATIBILITY

This XTRONS unit is specifically designed for BMW vehicles with the **NBT system**. Please verify your vehicle's system before installation.

2.1 Applicable Models & Years

- For BMW 3 Series F30 / F31 / F34 (2013-2016) - Left Driving Vehicles
- For BMW 4 Series F32 / F33 / F36 (2013-2016) - Left Driving Vehicles
- For BMW 3 Series F35 (2013-2017) - Left Driving Vehicles
- For BMW M3 F80 / F81 (2013-2019) - Left Driving Vehicles
- For BMW M4 F82 / F83 (2013-2019) - Left Driving Vehicles

This unit is **ONLY** compatible with the original 3 Series F30 F31 F34 / 4 Series F32 F33 F36 Left Driving Vehicles NBT system.



Image 2.1: Visual guide to identify the NBT system, including the 6-pin LVDS port, Media button, and Touchpad controller.

2.2 How to Check Your Original System (NBT, CIC, or NBT EVO)

It is crucial to identify your car's original system to ensure proper compatibility and installation.

- **NBT System:** Features a 6-pin LVDS port at the rear of the unit, a 'MEDIA' button on the iDrive controller, or a touchpad iDrive controller. A 'Car ConnectedDrive' interface does not automatically confirm an NBT system.
- **NBT EVO System:** Also has a 6-pin LVDS port. Look for "NBTEvo_xxxx" and "Automatic map update" in the version info. An "ID5" or "ID6" interface does not automatically confirm an NBT EVO system.
- **CCC System:** Characterized by independent slots for CD and DVD, and a 10-pin LVDS port at the rear of the unit. A "Car Communication Computer" interface does not automatically confirm a CCC system.



Image 2.2: Visual guide to identify the NBT EVO system.



Image 2.3: Visual guide to identify the CCC system.

2.3 Important Notes on Compatibility

If your car does not have an audio AUX input, you may need to acquire an FM transmitter to facilitate audio functionality with the installation. Compatible XTRONS FM transmitters include models CA/ITR/FM02 and CA/ITR/FM03 (ASIN: B0841Z1LTV).



Image 2.4: An example of an FM transmitter for vehicles without AUX input.

3. PACKAGE CONTENTS

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

- 1 x ISO Wiring Harness
- 1 x USB Cable
- 1 x Mini Microphone
- 1 x GPS Antenna
- 1 x 4G Antenna
- 1 x 4G SIM Card Slot
- 1 x Installation Instruction
- 1 x User Manual
- 1 x Audio Cable



Image 3.1: Overview of the XTRONS unit dimensions and included accessories.

4. INSTALLATION GUIDE

Professional installation is recommended. Refer to the included 'Installation Instruction' document for detailed, step-by-step guidance specific to your BMW model. The following provides a general overview and wiring diagram.

4.1 Wiring Harness Diagram

Familiarize yourself with the connections on the back of the unit and the corresponding wiring harness.



Image 4.1: Detailed diagram of the wiring harness connections.

1. LVDS Port
2. AUDIO OUT, Audio Output
3. AUDIO IN, Audio Input
4. ISO Port to Connect to Original CD Player
5. ISO Wiring Harness
6. CAMERA, Camera Input
7. MIC, Microphone Port
8. P-CAM, Camera ACC
9. ACC
10. REVERSE IN, Reversing Control Cable

11. USB Port 1
12. USB Port 2
13. 4G SIM Card Slot
14. 4G Antenna
15. GPS Antenna

4.2 General Installation Steps

While specific steps vary by vehicle, the general process involves:

1. Carefully remove the original car stereo and display.
2. Connect the XTRONS ISO wiring harness to the vehicle's existing wiring.
3. Connect the LVDS cable from the XTRONS unit to the vehicle's original LVDS port.
4. Install the GPS and 4G antennas in suitable locations for optimal signal reception.
5. Connect the USB cables and microphone.
6. Mount the new XTRONS display unit.
7. Test all functions before fully reassembling the dashboard.



Image 4.2: General installation guideline diagram.

5. OPERATING INSTRUCTIONS

Your XTRONS unit runs on Android 14, offering a wide range of features and customization options.

5.1 User Interface and Navigation

The unit features a custom UI designed for BMW, providing intuitive access to applications and settings. You can personalize the dashboard with various widgets and style options.

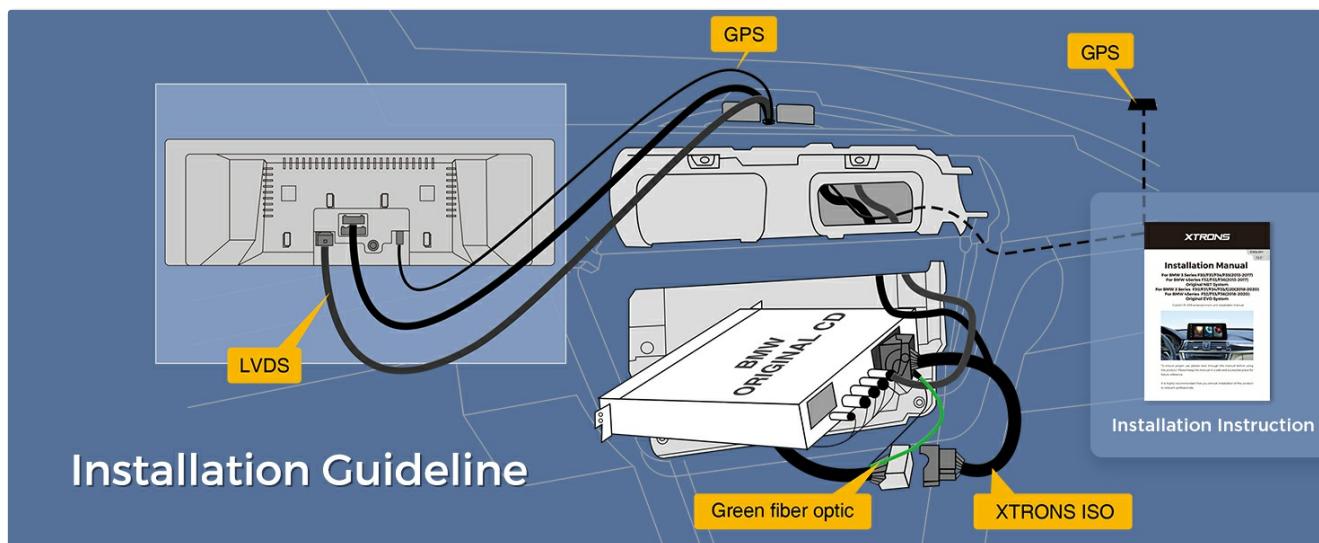


Image 5.1: The XTRONS custom user interface with dashboard and customization options.

5.2 Connectivity: 4G LTE, Wi-Fi, Bluetooth

- **Global 4G LTE:** Insert a Micro-SIM card (not included) into the designated slot to access mobile broadband. Supports data only, not phone calls.
- **Dual Band Wi-Fi:** Connect to 2.4GHz or 5GHz Wi-Fi networks for internet access.
- **Bluetooth 5.0:** For hands-free calls, phone book synchronization, and Bluetooth music streaming.

- **USB Tethering:** Connect your phone via USB to share its internet connection.

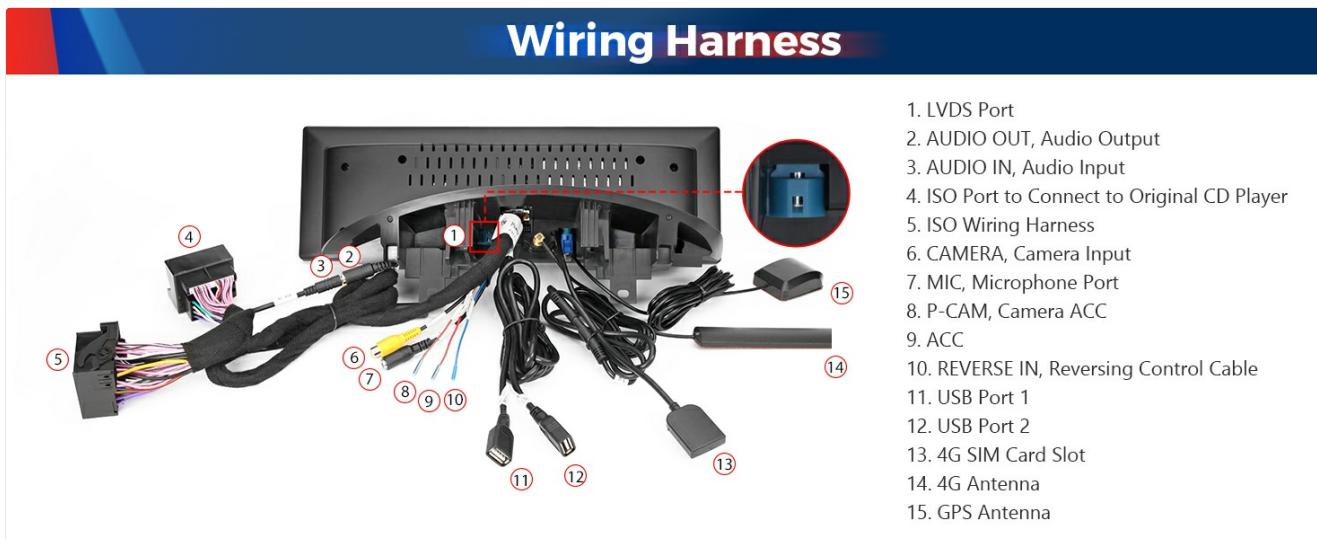


Image 5.2: Global 4G LTE and USB Tethering functionality.

Have any questions about XTRONS products?

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Image 5.3: Bluetooth 5.0 and Dual Band Wi-Fi connectivity options.

5.3 Navigation and Smartphone Integration

- **GPS Navigation:** Supports various navigation applications for accurate route guidance.
- **Wireless CarPlay:** Connect your iPhone wirelessly for access to navigation, calls, music, and Siri.
- **Wireless/Wired Android Auto:** Connect your Android phone wirelessly or via USB for access to GPS, calls, music, and Google Assistant.
- **Screen Mirroring:** Wirelessly display your smartphone screen on the unit.
- **Voice Control:** Activate Siri or Google Assistant using voice commands.

XTRONS

14.9"

CAR STEREO

FOR BMW



Image 5.4: GPS navigation display on the XTRONS unit.

Image 5.5: Wireless CarPlay and Android Auto functionality with voice control.

5.4 Retained Original Functions

The XTRONS unit is designed to retain key original BMW functions:

- **iDrive System Control:** Full functionality of the original iDrive system is retained for both the original and Android systems.
- **Amplifier System:** Retains the original fiber optic sound system.
- **Original Radio & CD Player:** Continue to use your vehicle's original radio and CD player.
- **Bluetooth:** Original Bluetooth functions are maintained.
- **Backup Camera Display:** Supports display from the original backup camera.
- **Steering Wheel Control:** Original steering wheel controls remain functional.
- **Original Car Information Display:** Important vehicle information such as speed, engine speed, temperature, parking brake, and seat belt reminders are displayed.

Image 5.6: Overview of original BMW functions retained by the XTRONS unit.

Image 5.7: Display of original car information on the XTRONS screen.

5.5 External Camera Support

The unit supports High Definition Real-view with an AHD camera (cameras are not included).

Image 5.8: Example of AHD camera display on the XTRONS unit.

6. MAINTENANCE

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

- **Screen Cleaning:** Use a soft, lint-free cloth to gently wipe the screen. 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 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.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For more complex problems, please refer to the support section.

- **No Power:** Check all power connections, including the ISO wiring harness. Ensure the vehicle's ignition is on.
- **No Audio:** Verify that the AUX input is correctly selected on your original BMW system. If your car lacks an AUX input, ensure an FM transmitter is properly installed and configured. Check all audio cable connections.
- **Screen Flickering or Color Issues:** This can sometimes be related to temperature fluctuations. Ensure all display cables, especially the LVDS cable, are securely connected. If the issue persists, contact support.
- **GPS Signal Issues:** Ensure the GPS antenna is installed in a location with a clear view of the sky and is securely connected.
- **4G/Wi-Fi Connectivity Problems:** For 4G, ensure a valid Micro-SIM card is inserted and activated, and that you have coverage. For Wi-Fi, verify the network password and signal strength. For USB tethering, ensure it's enabled on your phone.
- **CarPlay/Android Auto Not Connecting:** Ensure Bluetooth is enabled on both the unit and your phone. For wired Android Auto, try a different USB cable. For wireless connections, ensure your phone is discoverable.
- **iDrive Controller Not Working with Android System:** Verify that the CAN settings in the unit's system settings are correctly configured for your specific BMW model and NBT system. Refer to the installation instructions for guidance on CAN settings.

8. SPECIFICATIONS

Feature	Specification
Model Number	QLB42THNBL
Display Size	14.9 Inches
Screen Type	2K IPS Touch Screen
Operating System	Android 14
Processor	Octa Core
RAM	4GB
ROM	64GB
Connectivity	Bluetooth 5.0, USB, Dual-Band Wi-Fi, Global 4G LTE
Special Features	Wireless CarPlay, Wireless/Wired Android Auto, GPS Navigation, Screen Mirroring, Voice Control
Mounting Type	Dashboard Mount

Item Weight	6.39 pounds
Package Dimensions	17 x 8.7 x 8.2 inches

9. WARRANTY AND SUPPORT

9.1 Warranty Information

Your XTRONS 14.9-inch Android 14 Car Stereo comes with a **1-Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

9.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact XTRONS customer support. You can typically find contact information on the XTRONS official website or through the retailer where you purchased the product.

If purchased via Amazon, you can contact the seller directly:

1. Navigate to the product page on Amazon.
2. Locate the 'Sold by Xtrons' link (usually near the 'Add to Cart' button).
3. Click on the seller's name to visit their storefront.
4. Look for an 'Ask a question' button to send a message to XTRONS support.



Image 9.1: Steps to contact XTRONS support through Amazon.