Road Top NTG5.0 Retrofit Kit

Road Top Wireless CarPlay Android Auto Retrofit Kit User Manual

For Mercedes Benz NTG5.0 Systems (2015-2018)

1. Introduction

This manual provides detailed instructions for the installation and operation of the Road Top Wireless CarPlay Android Auto Retrofit Kit. This device integrates advanced smartphone connectivity features into your Mercedes Benz vehicle's existing NTG5.0 infotainment system, allowing for seamless use of CarPlay, Android Auto, and MirrorLink functionalities.

2. Compatibility

This retrofit kit is compatible with Mercedes Benz vehicles equipped with the NTG5.0/5.1/5.2 system from 2015-2018. Please verify your vehicle's system before installation.

- **Compatible Models:** GLA CLA C117/X117/X156 (2015-2018), C-Class GLC W205 (2015-2018), B-Class W246 (2016-2018), E-Class W212 (2015-2016), S-Class W222 (2014-2020), GLE GLS (2016-2018), V-Class W447 (2015-2018), G-Class (2016-2018), SLC R172 (2016-2020).
- **Important Note:** Not compatible with Mercedes Benz vehicles equipped with NTG4.0/4.5/4.7 systems. Refer to the image below to identify your car's system.

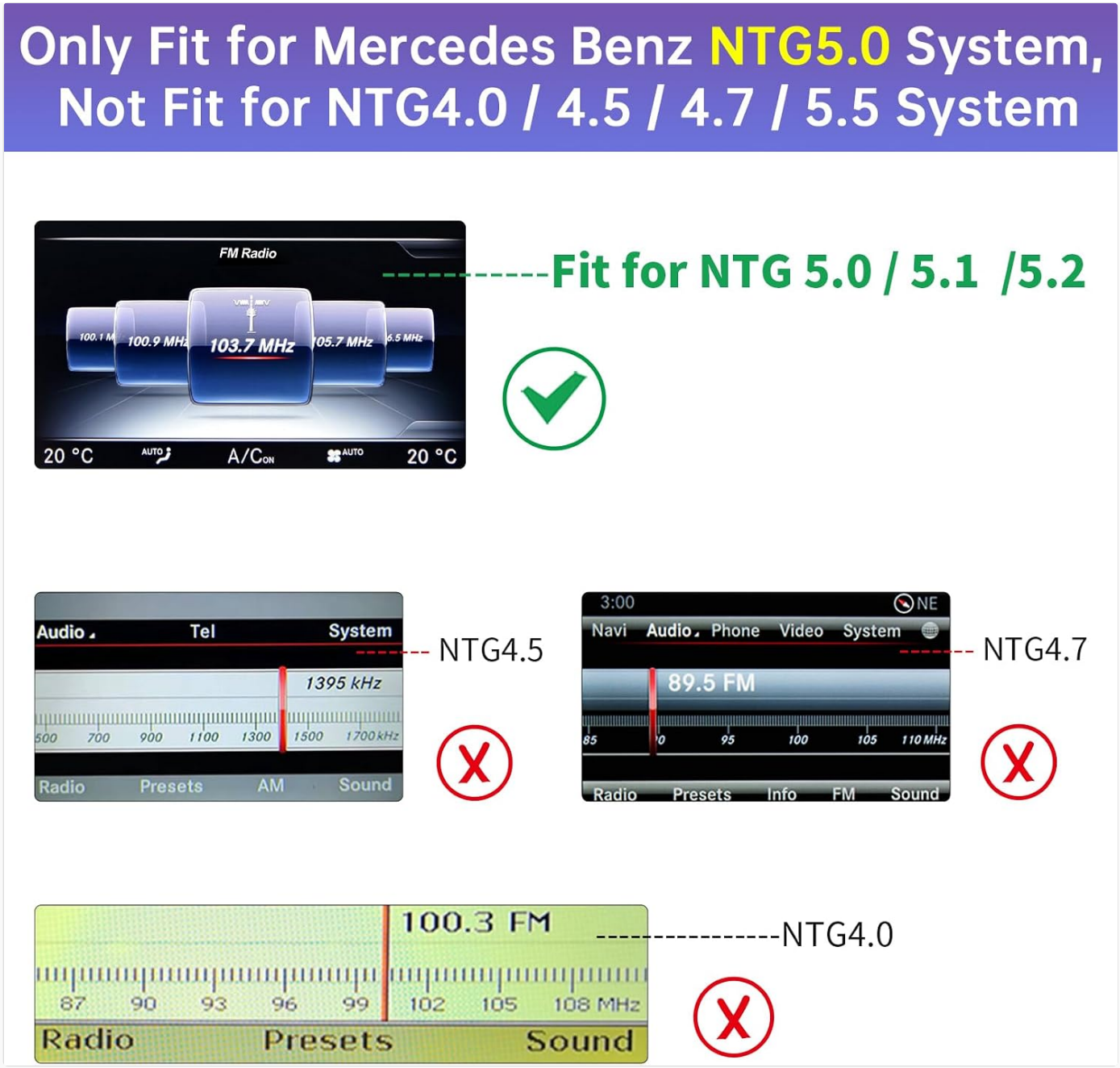


Figure 2.1: Visual guide for identifying compatible NTG systems. The kit is compatible with NTG 5.0/5.1/5.2 (top screen example) and incompatible with NTG4.5 and NTG4.0 (bottom screen examples).

3. Package Contents

The Road Top Wireless CarPlay Android Auto Retrofit Kit includes the following components:



Figure 3.1: Contents of the Road Top Retrofit Kit. Includes the CarPlay decoder box, power cable harness, LVDS cable, USB-AV cable, USB audio cable, Wi-Fi antenna, and instructions.

- CarPlay Decoder Box
- Power Cable Harness
- LVDS Cable
- USB-AV Cable
- USB Audio Cable
- Wi-Fi Antenna
- USB Adapter or Bluetooth Transmitter (random package)
- Instruction Manual

4. Installation Guide

Installation of this retrofit kit involves connecting the decoder to your vehicle's original CD player using the provided

cables. It is recommended to seek professional assistance if you are not confident with the installation process. Ensure all functions are tested before finalizing the installation.

4.1 Pre-Installation Notes

- Verify your car model and year for compatibility.
- Most issues arise from incorrect settings; these can often be resolved.
- Do not place the Wi-Fi antenna inside the center console or close to metal materials, as this may interfere with signal reception.
- If your car's host device is Panasonic, a 1-2 second audio delay may occur through the USB AUX channel.

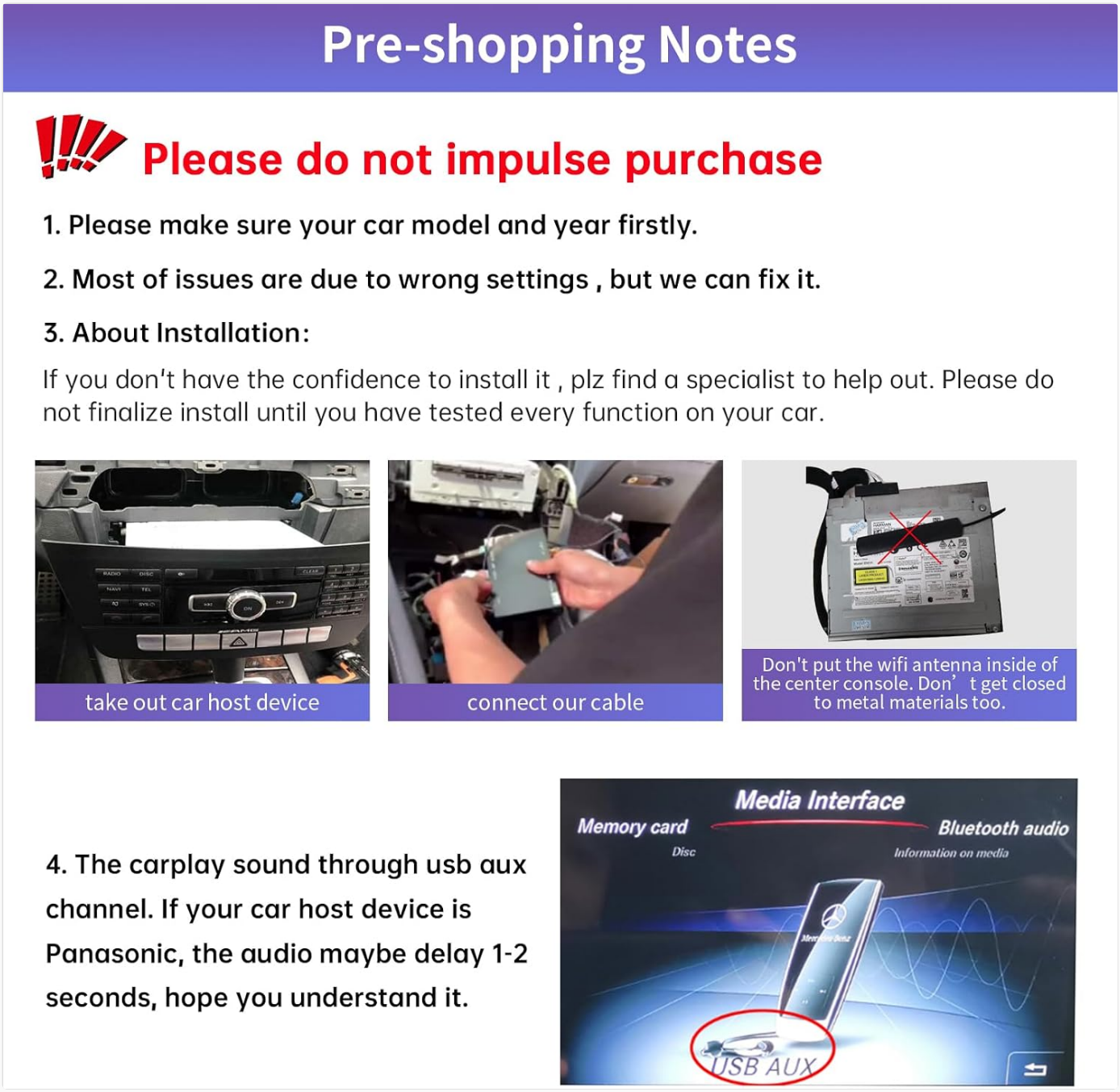


Figure 4.1: Important pre-installation considerations and initial steps. This includes removing the car's host device, connecting the provided cables, and a warning about Wi-Fi antenna placement.

4.2 General Installation Steps (Overview)

1. Carefully remove the dashboard components to access the original CD player/infotainment unit.
2. Connect the provided cables from the retrofit kit to the original vehicle wiring harness and the CD player.

3. Connect the CarPlay decoder box to the newly installed cables.
4. Securely place the Wi-Fi antenna in an optimal location, away from metal obstructions.
5. Before reassembling the dashboard, power on the vehicle and test all functions of the retrofit kit.
6. Once confirmed operational, reassemble the dashboard components.

5. Operating Instructions

The Road Top Retrofit Kit allows you to seamlessly integrate your smartphone's features with your car's display. Your vehicle will retain its original system while gaining additional functionalities.

5.1 Switching Between Systems

To switch between the original vehicle radio system and the CarPlay/Android Auto system, press and hold the special knob button on your car's center console for approximately 3 seconds.



Figure 5.1: Switching between the OEM car system and the CarPlay/Android Auto system by long-pressing the star button on the center console.

5.2 Wireless CarPlay and Android Auto

The kit supports both wireless and wired CarPlay/Android Auto. Once connected, your smartphone's interface will be displayed on the car's screen, providing access to navigation, music, calls, and more.

5.3 MirrorLink Functionality

The MirrorLink feature allows you to mirror your smartphone's screen directly onto the car's display. This supports AirPlay for iPhone and AutoLink for Android devices.



Figure 5.2: Phone mirroring in action, showing a smartphone screen duplicated on the vehicle's display via MirrorLink (AirPlay for iPhone, AutoLink for Android).

5.4 Navigation and Multimedia

Utilize your preferred navigation apps (e.g., Apple Maps, Google Maps) directly on the car's screen. Enjoy music playback from your smartphone's library or streaming services.

5.5 Steering Wheel Controls and Voice Control

The system supports voice control via Siri and Google OK, allowing for hands-free operation. Certain multimedia buttons on the steering wheel are also supported, including the voice control button, Tel button, and volume controls (+/-).



Figure 5.3: Control options including the long-press 'confirm' button for system switching and supported original car steering wheel operations for voice control and volume.

5.6 Camera Functionality

The kit supports the factory original reverse camera and parking radar. It also allows for the integration of aftermarket reverse cameras, 360-degree cameras, and front-view camera DVRs (CVBS input).

5.7 Automatic Day and Night Mode Switching

The system automatically switches between day and night display modes based on ambient light conditions, optimizing visibility for navigation and other functions.

Your browser does not support the video tag.

Video 5.1: Demonstration of the Road Top Wireless CarPlay Android Auto Retrofit Kit in a Mercedes Benz C-Class/GLC (2015-2018). The video showcases the installation process, switching between the original vehicle system and CarPlay, wireless CarPlay and Android Auto

support, knob control, music playback, map navigation, AirPlay & Autolink mirroring, automatic day/night mode switching, and support for OEM/aftermarket rear cameras and radar.

6. Troubleshooting

If you encounter any issues, please refer to the following common solutions:

- **No Display/Incorrect Display:** Double-check all cable connections, especially the LVDS cable. Ensure the correct NTG system is selected in the kit's settings if applicable.
- **No Audio/Poor Audio Quality:** Verify the USB AUX channel connection. If using a Panasonic host device, a slight audio delay (1-2 seconds) is normal. Ensure the car's audio input is set to AUX.
- **Wireless Connectivity Issues:** Ensure the Wi-Fi antenna is properly installed and not obstructed by metal. Restart both the kit and your smartphone. Check your phone's Wi-Fi and Bluetooth settings.
- **Controls Not Responding:** Confirm that the specific control (knob, steering wheel button) is supported by the kit. Ensure the kit is properly powered and connected.
- **System Freezing/Crashing:** Try restarting the kit by turning off and on the vehicle ignition. If the issue persists, check for firmware updates or contact support.

For persistent issues, it is recommended to consult a professional installer or contact Road Top customer support.

7. Specifications

Feature	Detail
Brand	Road Top
Connectivity Technology	Bluetooth
Controller Type	Android, Button
Special Features	Wireless CarPlay, Android Auto, AirPlay, USB and HDMI support, Siri/Google OK Voice Control
Compatible Devices	Smartphones
Total HDMI Ports	1
Audio Output Mode	Stereo
Surround Sound Channel Configuration	5.1
Video Encoding	H.264, H.265/HEVC
Color	Black

7.1 Product Dimensions

The CarPlay decoder box has the following approximate dimensions:

- Length: 148mm
- Width: 94mm
- Height: 23mm

8. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your product or contact Road Top customer service directly. Keep your purchase receipt for warranty claims.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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