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- › [EKAT](#) /
- › [EKAT Android 13 Car Radio User Manual for Mercedes Benz GL/ML W164 X164 Series](#)

EKAT 8 Core 6G+128G Android 13 Car Radio

EKAT Android 13 Car Radio User Manual

For Mercedes Benz ML-Class W164 (ML350, ML500, ML280) and GL-Class X164 (GL320, GL350, GL450) 2005-2011

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your EKAT Android 13 Car Radio. This unit features an 8-Core CPU, 6GB RAM, 128GB ROM, Android 13 system, 9-inch IPS touch screen, DSP 32 EQ audio, wired/wireless CarPlay and Android Auto, Bluetooth 5.0, Wi-Fi, GPS, FM RDS Radio, and Steering Wheel Control compatibility. Please read this manual thoroughly before installation and use to ensure proper function and safety.

Applicable Models

**For Mercedes Benz GL ML Class
W164/X164/ML350/ML500/ML280/GL320/GL350/GL450
2005-2011**

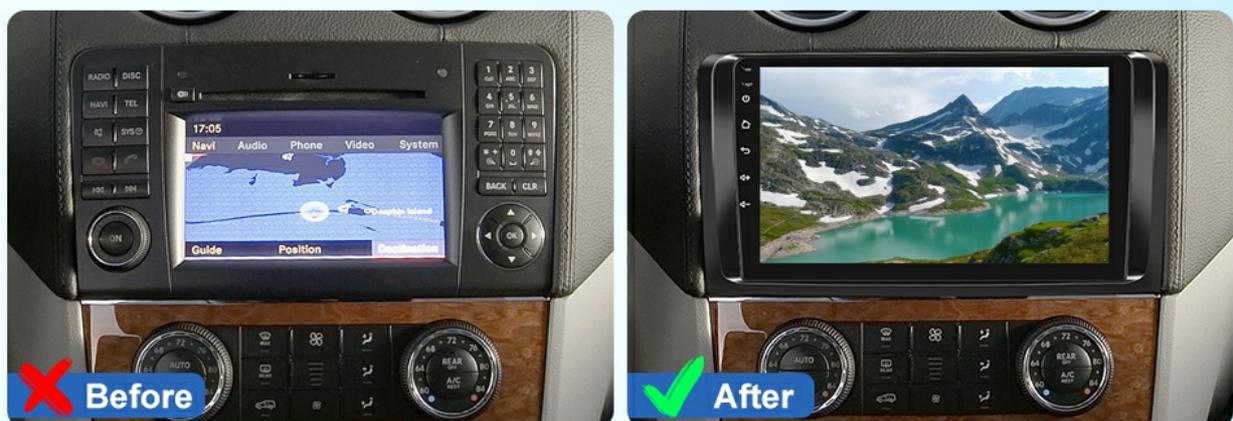


Image: Overview of the EKAT Android 13 Car Radio's core specifications.

2. SETUP

2.1. Package Contents

Please verify that all items are present in the package:

- EKAT Android 13 Car Radio Unit
- Power Cable
- Adapter Cable
- Canbus Box
- GPS Antenna
- Radio Antenna
- USB Cables (x2)
- RCA Cable
- Rear Camera Input Cable
- Microphone (MIC)
- Rear Camera
- Installation Tool Kit
- User Manual



Image: Visual representation of all included components in the product package.

Video: Unpacking and packaging details of the car radio unit and its accessories.

2.2. Pre-Installation Notes

Before proceeding with installation, please note the following critical information:

- If your vehicle is equipped with a Bose or Harman Kardon stereo system, and the original back connector matches the one shown in the image, your vehicle uses a fiber optic wiring harness. An additional fiber optic decoder will be required for sound output. Without this decoder, your stereo will not produce sound.
- If the radio does not turn on after installation, check the wiring. Ensure the big head wire connection (green frame and red frame connector) and small wire connection (blue frame and red frame interface) are correctly connected. The protocol box connector cannot be connected at the same time as the indicated arrow connector in the diagram; one of them needs to be disconnected.



Image: Important note regarding fiber optic decoder requirement for certain vehicle audio systems.

Please Note

This back port is for the 2011 GL450 without the fiber optic harness as well as other models, i.e.
2005-2011 ML GL ML350 W164 GL320 X164 ML500 ML280 GL35, etc.

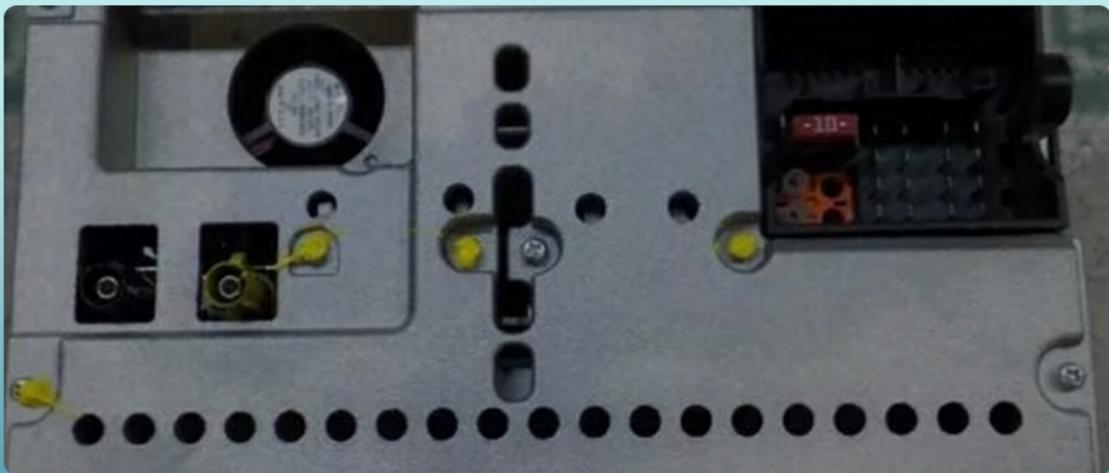


Image: Instructions for checking wiring if the radio does not power on after installation.

Video: Demonstrates the Optic Fiber Decoder for Mercedes-Benz ML/GL, showing its connections and function.

2.3. Wiring Diagram

Refer to the provided wiring diagrams for correct connections. Ensure all cables are securely connected to their respective ports.



Image: Diagram illustrating the protocol box connector and other wiring for installation.

2.4. Backup Camera Connection

To connect the AHD backup camera:

1. Connect the red wire of the camera to the positive terminal of the reverse light.
2. Connect the black wire of the camera to the negative terminal of the reverse light.
3. The reversing trigger (usually a small red wire on the RCA cable) does not need to be connected, as the reversing trigger is controlled by the stereo unit itself via the Canbus.



Image: Step-by-step guide on how to connect the backup camera.

2.5. Steering Wheel Control Setup

After connecting the Canbus correctly, you need to set up the steering wheel controls:

1. Go to 'Settings' > 'Factory Setup'.
2. Input password '1234'.
3. Navigate to 'Car Settings'.
4. Choose 'Oudi +' and select the year and model of your car.
5. Once configured, you can use the steering wheel buttons to control the radio.



Image: Visual guide for setting up steering wheel controls via the car radio interface.

3. OPERATING INSTRUCTIONS

Video: Comprehensive instructions for various functions and settings of the car radio.

3.1. Basic Operations

- **Wi-Fi Connection:** Navigate to Settings > Network > Wi-Fi. Turn on Wi-Fi and select your network. Enter the password to connect. After a successful connection, you can use online apps like YouTube.
- **Screen Brightness Adjustment:** Go to Settings > Display > Backlight brightness. Adjust the slider to your preferred level. You can also swipe down the status bar for quick adjustments.
- **Language Settings:** Access Settings > Languages & input > Languages. Tap 'Add a language' and select your desired language from the list.
- **Time Settings:** In Settings > Date & time, ensure 'Automatic time calibration' is enabled for accurate time synchronization.
- **Touch Calibration (Five-Point Calibration):** To calibrate the touch screen, place all five fingers on the screen simultaneously to activate the calibration mode. Follow the on-screen prompts to touch the crosshairs.

3.2. Advanced Settings

- **Car System Protocol Settings:** Go to Settings > System > Factory Mode. Enter password '8888'. Select '1 Vehicle' and then 'Automotive type' to choose the correct vehicle protocol.
- **Reverse Camera Format Selection:** In Factory Mode (password '8888'), select '3 Camera'. Choose the required protocol for your reverse camera (e.g., CVBS, AHD).
- **Key Learning (Steering Wheel Controls):** In Factory Mode (password '8888'), select '6 Key Learn'. Follow the on-screen instructions to assign functions to your steering wheel buttons.

- **Touch Screen Learning:** In Factory Mode (password '8888'), select '7 Touch Key Learn'. Follow the on-screen instructions to calibrate touch functions.
- **Clean Memory:** Swipe down from the top of the screen and tap the 'Clean' icon to optimize system performance by clearing memory.
- **UI Theme Selection:** Access the 'Themes' app. Multiple UI desktop themes are available for easy switching. Long-press on the blank space of the homepage to change themes.
- **Radio Settings:** Open the 'Radio' app. Adjust radio bands, frequencies, and search for stations as needed. The unit supports FM RDS radio.
- **EQ Settings:** Open the 'EQ' app. Customize sound with preset equalizer settings (e.g., Pop, Rock, Jazz) or manual adjustments. You can also adjust the sound field balance.



Image: Details on the DSP 32 EQ audio customization and the 9-inch IPS high-resolution display.

3.3. Connectivity

- **Bluetooth Connection:** Go to the 'BT Phone' app. Turn on Bluetooth on your phone and search for the device name (e.g., RK33261CB716). Pair your phone with the car radio. After connecting, you can make hands-free calls and stream music.
- **CarPlay Connection:** Connect your iPhone to the car system via Bluetooth. Once connected, CarPlay will launch, allowing access to phone functions like music, GPS navigation, calls, and messages on the car radio screen.
- **Android Auto Connection:** Connect your Android phone to the car system via Bluetooth. Once connected, Android Auto will launch, providing access to compatible apps and features on the car radio screen.

How to Connect The Backup Camera

Tip: The reversing input must be plugged in even when the reversing camera is not used

1 Connect to the positive terminal of the power supply for the reverse light

2 Connect to the negative terminal of the power supply for the reverse light

3 4 No need to connect **3 4**, as the reversing trigger is controlled by the stereo!

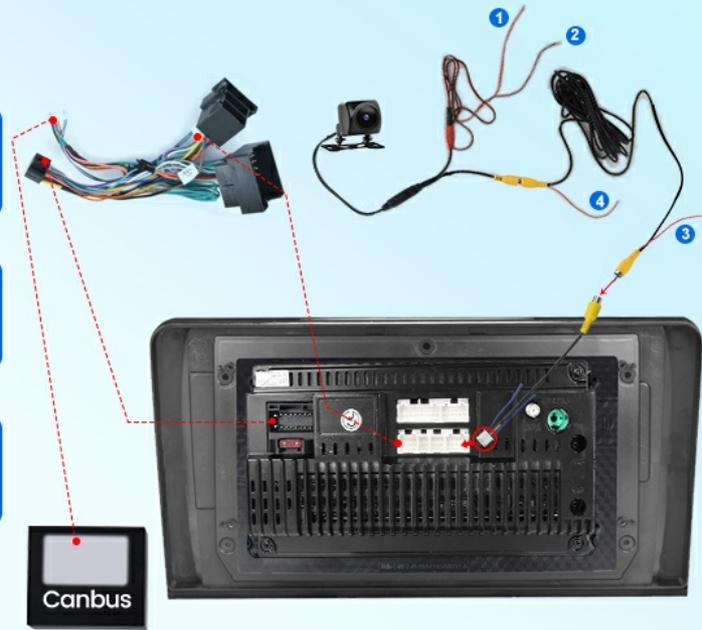


Image: Illustration of wired and wireless CarPlay and Android Auto features.



Image: Overview of Bluetooth 5.0, AHD Backup Camera, and FM RDS Radio capabilities.

4. MAINTENANCE

To ensure the longevity and optimal performance of your EKAT Android 13 Car Radio, follow these maintenance guidelines:

- Regularly clean the screen with a soft, lint-free cloth. Avoid abrasive cleaners.
- Keep the unit free from dust and debris.
- Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.
- Ensure all connections are secure and free from corrosion.
- Perform periodic software updates as they become available to enhance features and stability.

5. TROUBLESHOOTING

If you encounter any issues with your car radio, refer to the following common problems and solutions:

- **No Power:** Double-check all power connections, especially the main power cable and ground. Ensure

the ignition (ACC) wire is receiving power. Verify the fuse is intact.

- **No Sound:** If your vehicle has a fiber optic audio system (Bose/Harman Kardon), ensure the fiber optic decoder is correctly installed. Without it, there will be no sound. Check speaker connections.
- **Steering Wheel Controls Not Working:** Ensure the Canbus box is correctly connected and configured in the 'Factory Setup' menu as described in Section 2.5.
- **GPS Signal Issues:** Ensure the GPS antenna is installed in a location with a clear view of the sky and is securely connected.
- **Bluetooth/Wi-Fi Connection Problems:** Ensure Bluetooth/Wi-Fi is enabled on both the car radio and your mobile device. Try restarting both devices and re-pairing/reconnecting.
- **Screen Unresponsive/Incorrect Touch:** Perform the 'Touch Calibration' as described in Section 3.1.

For persistent issues, please contact customer support.

6. SPECIFICATIONS

- **Item Weight:** 3.69 pounds
- **Package Dimensions:** 12.01 x 6.65 x 3.78 inches
- **Display Size:** 9 Inches
- **Resolution:** 720 x 1280
- **Operating System:** Android 13
- **CPU:** 8 Core
- **RAM:** 6GB
- **ROM:** 128GB
- **Connectivity Technology:** Bluetooth, Wi-Fi
- **Special Feature:** Bluetooth, CarPlay, Android Auto, DSP 32 EQ, IPS Screen, GPS Navigation, FM RDS Radio, Steering Wheel Control, AHD Camera support
- **Mounting Type:** Dashboard Mount
- **Audio Output Mode:** Stereo

7. WARRANTY

This EKAT Android 13 Car Radio comes with a **2-YEAR WARRANTY**. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and malfunctions under normal use.

8. SUPPORT

For further assistance, technical support, or warranty inquiries, please refer to the contact information provided in your product packaging or on the official EKAT website. We recommend sending a photo of your original car's center console and any relevant wiring if you have specific compatibility questions before or after purchase.