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MekedeTech 8 Core-2+32G

MekedeTech Android 13 Car Radio User Manual

For Toyota Camry (2007-2011) - Model 8 Core-2+32G

Brand: MekedeTech

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your MekedeTech Android 13 Car Radio. This unit is designed specifically for Toyota Camry models manufactured between 2007 and 2011, offering an enhanced in-car entertainment and navigation experience.
Key features include:

- Android 13 Operating System with 8-Core CPU, 2GB RAM, and 32GB ROM.
- 9-inch IPS Multi-touch Screen with 1280x720 resolution.
- Built-in Wireless CarPlay and Android Auto support.
- Integrated 4G LTE and WiFi connectivity.
- FM/AM Radio tuner.
- Steering Wheel Control (SWC) compatibility.
- Bluetooth for hands-free calling and audio streaming.
- Built-in Digital Sound Processor (DSP) for enhanced audio quality.

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 device, or damage to your vehicle.

- **Professional Installation Recommended:** Due to the complexity of car electrical systems, professional installation is highly recommended.
- **Power Disconnection:** Always disconnect the vehicle's battery negative terminal before beginning any installation or wiring work.
- **Wiring:** Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- **Driving Safety:** Do not operate the device in a manner that distracts you from driving. Always prioritize road safety.
- **Ventilation:** Ensure the unit has adequate ventilation to prevent overheating.

3. Package Contents

Verify that all items listed below are included in your package:

- 9-inch Touch Screen Head Unit
- Power Cable Harness
- RCA Cable Set
- USB Cables (2)
- 4G Antenna
- External Microphone (MIC)
- Reversing Camera Input Cable
- GPS Antenna



Figure 3.1: Included Components. This image displays the main head unit along with all the cables and accessories provided in the package, such as the power harness, RCA cables, USB cables, 4G antenna, external microphone, reversing camera input, and GPS antenna.

4. Product Overview

The MekedeTech Android 13 Car Radio integrates seamlessly into your Toyota Camry's dashboard, replacing the factory stereo system. It features a large 9-inch touch screen and physical buttons for essential functions.



Figure 4.1: Front View of the Head Unit. This image shows the 9-inch display with the CarPlay interface active, along with the physical buttons on the left side of the unit.

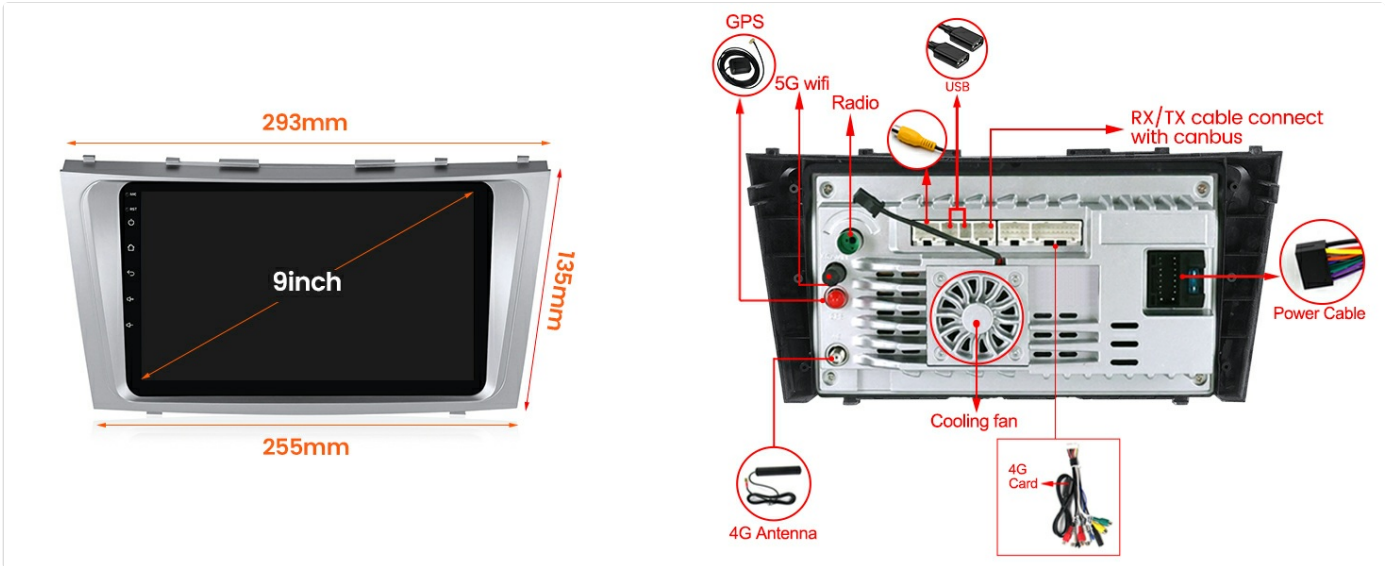


Figure 4.2: Rear View and Dimensions. This image illustrates the physical dimensions of the unit (293mm width, 135mm height, 255mm depth) and highlights the various connection points on the back, including the power cable, USB ports, radio antenna, 4G antenna, and the integrated cooling fan.

5. Installation Guide

This section outlines the general steps for installing the MekedeTech Android 13 Car Radio. Specific vehicle disassembly procedures are not covered and may require consulting your vehicle's service manual or a professional installer.

5.1. Pre-Installation Checks

- Ensure the vehicle's ignition is off and the battery's negative terminal is disconnected.

- Confirm compatibility with your Toyota Camry (2007-2011 models).
- If your vehicle has a JBL stereo system, an additional adapter socket amplifier wire harness (ASIN B0C8MKC5V5) is required for proper sound functionality.



Figure 5.1: Before and After Installation. This image provides a visual comparison of the car's dashboard with the original factory radio and with the MekedeTech Android 13 Car Radio successfully installed.

5.2. Removal of Factory Radio

1. Carefully remove the trim panels surrounding the factory radio.
2. Unscrew the mounting bolts/screws holding the factory radio in place.
3. Gently pull out the factory radio and disconnect all wiring harnesses and antenna cables.

5.3. Wiring Connections

1. Connect the provided power cable harness to the new head unit and then to the vehicle's wiring harness. Ensure all connections are secure.

2. Connect the RCA cables for audio output, auxiliary input, and video input/output as needed.
3. Attach the GPS antenna and position it in a location with a clear view of the sky (e.g., on the dashboard).
4. Connect the 4G antenna and position it appropriately for optimal signal reception.
5. Connect the external microphone for improved call quality.
6. If installing a rear view camera, connect its video output to the 'Reversing Camera' input on the head unit and its power/trigger wire according to the camera's instructions.
7. **For JBL Systems:** If using the JBL adapter harness, ensure the two blue amplifier control cables (one from the RCA bundle, one from the CANbus harness) are connected to activate the amplifier. For reverse camera detection, the brown wire on pin G5 of the power cable harness may need to be connected to the camera's reverse trigger wire.

5.4. Mounting the New Unit

1. Carefully slide the MekedeTech head unit into the dashboard opening.
2. Secure the unit using the appropriate mounting brackets and screws.
3. Reinstall the trim panels, ensuring they snap securely into place.

5.5. Post-Installation

1. Reconnect the vehicle's battery negative terminal.
2. Turn on the ignition and power on the head unit to test all functions.
3. Adjust settings, including steering wheel controls, as described in the operating instructions.

6. Operating Instructions

6.1. Power On/Off and Basic Navigation

- The unit typically powers on automatically with the vehicle's ignition. To manually power on/off or restart, use the designated power button on the unit.
- Navigate the Android interface using the 9-inch multi-touch screen. Swipe, tap, and pinch gestures are supported.
- The left side of the unit features physical buttons for quick access to volume, home, back, and other common functions.

6.2. Wireless CarPlay and Android Auto

The unit supports both Wireless CarPlay (for iOS devices) and Wired Android Auto (for Android devices).



Figure 6.1: CarPlay and Android Auto Connectivity. This image displays the CarPlay interface on the head unit and provides connection steps: for Wired Android Auto, connect via USB cable and select 'Car Link'; for Wireless CarPlay, connect via Bluetooth and then select 'Car Link'.

- **For Wireless CarPlay (iOS):**
    a. Ensure Bluetooth is enabled on your iPhone.
    b. Pair your iPhone with the car radio via Bluetooth.
    c. On the car radio, open the 'Car Link' application.
    d. Follow the on-screen prompts to initiate Wireless CarPlay.
- **For Wired Android Auto (Android):**
    a. Connect your Android phone to the car radio using a USB cable.
    b. On the car radio, open the 'Car Link' application.
    c. Follow the on-screen prompts to initiate Wired Android Auto.

6.3. 4G LTE and WiFi Connectivity

The unit supports both 4G LTE via a SIM card and WiFi for internet access.



Figure 6.2: 4G LTE and DSP. This image highlights the location of the 4G SIM card slot (on the back of the main unit and an external slot on the RCA cable) and illustrates the Digital Sound Processor (DSP).

- **4G LTE:** Insert a compatible 4G SIM card into one of the designated slots (one on the back of the main unit, another on the RCA cable). This allows direct internet access without a phone hotspot.
- **WiFi:** Connect to a WiFi network by navigating to Settings > Network & Internet > Wi-Fi. You can also use your mobile phone's hotspot for internet access.

6.4. FM/AM Radio



Figure 6.3: FM/AM Radio Interface. This image displays the user interface for the FM/AM radio, showing frequency selection and station presets.

Access the 'Radio' application from the main menu. You can scan for stations, save presets, and switch between FM and AM bands.

6.5. Bluetooth Pairing



Figure 6.4: Bluetooth Interface. This image shows the Bluetooth calling screen, indicating active call functionality and music streaming capabilities.

Go to Settings > Connected devices > Bluetooth. Enable Bluetooth on your phone and search for the car radio. Select the device name (e.g., 'MekedeTech') and confirm the pairing code. Once paired, you can make hands-free calls and stream audio.

6.6. Steering Wheel Controls (SWC)



Figure 6.5: Steering Wheel Control Functionality. This image demonstrates how the car's steering wheel controls can be used to manage various functions on the head unit, such as answering calls, controlling music playback, adjusting volume, and accessing GPS.

The unit supports learning your vehicle's steering wheel controls. Navigate to Settings > Car settings > Steering wheel learning. Follow the on-screen instructions to assign functions (e.g., volume up/down, track skip, answer call) to your steering wheel buttons.

6.7. DSP Audio Settings



Figure 6.6: DSP Equalizer Settings. This image displays the graphical equalizer interface of the DSP, allowing users to fine-tune audio frequencies for optimal sound quality.

Access the 'DSP' or 'Sound Settings' application to customize your audio experience. Adjust equalizer settings, balance, fader, and other sound effects to suit your preferences.

6.8. GPS Navigation



Figure 6.7: Built-in GPS Navigation. This image shows the car radio screen displaying a detailed GPS map with a route, estimated arrival time, and distance remaining.

The unit comes with built-in GPS functionality. Open the 'Maps' application to access navigation. Ensure the GPS antenna is properly installed for accurate positioning. You can download offline maps or use online navigation services via 4G or WiFi.

6.9. Split Screen Functionality



Figure 6.8: Split Screen Mode. This image illustrates the split-screen feature, allowing two applications (e.g., navigation and music player) to be displayed simultaneously on the 9-inch screen.

To activate split-screen mode, open an application, then long-press the recent apps button or swipe from the bottom of the screen (depending on Android version) and drag another app to the desired side of the screen.

6.10. Rear View Camera



Figure 6.9: Rear View Camera Display. This image shows the car radio screen automatically switching to the rear view camera feed when the vehicle is in reverse, complete with dynamic parking guidelines.

When a compatible rear view camera is connected and the vehicle is shifted into reverse, the unit will automatically display the camera feed on the screen, assisting with parking and maneuvering.

7. Maintenance

7.1. Cleaning the Screen

Use a soft, lint-free cloth to gently wipe the screen. For stubborn smudges, slightly dampen the cloth with water or a screen-cleaning solution. Avoid harsh chemicals or abrasive materials.

7.2. Software Updates

Periodically check for software updates through the unit's settings menu (Settings > About device > System update). Keeping the software updated ensures optimal performance and access to new features.

7.3. Cooling Fan

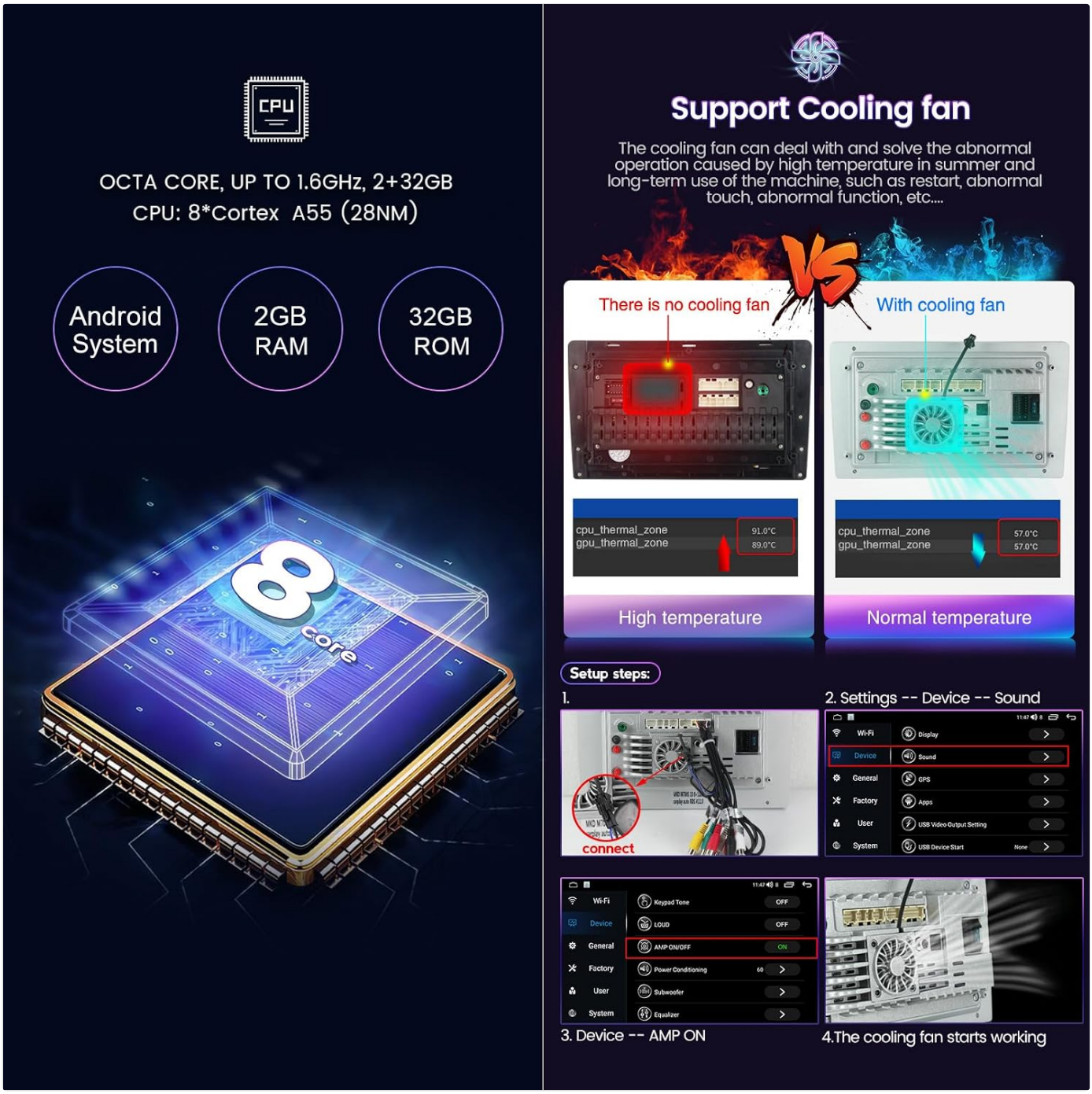


Figure 7.1: Cooling Fan Operation. This image illustrates the importance of the integrated cooling fan in maintaining normal operating temperatures for the CPU and preventing overheating, which can lead to performance issues.

The unit is equipped with a cooling fan to manage internal temperatures. Ensure the fan vents are not obstructed to allow proper airflow. The fan helps prevent performance degradation due to high temperatures during prolonged use.

8. Troubleshooting

If you encounter issues with your MekedeTech Android 13 Car Radio, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power	Incorrect wiring, blown fuse, loose connection	Check power cable connections, inspect vehicle fuses, ensure battery is connected.

Problem	Possible Cause	Solution
No sound	Volume too low, incorrect audio settings, amplifier not activated (JBL systems)	Increase volume, check DSP settings, ensure blue amplifier control wires are connected for JBL systems.
Steering wheel controls not working	Not configured, incorrect wiring	Perform steering wheel learning in settings, verify SWC wiring.
GPS signal weak/lost	GPS antenna placement, obstruction	Ensure GPS antenna has a clear view of the sky, check antenna connection.
CarPlay/Android Auto not connecting	Bluetooth/USB connection issues, app not launched	Ensure Bluetooth is on (CarPlay) or USB is connected (Android Auto), open 'Car Link' app, restart phone/unit.
Unit freezes or lags	Too many apps running, overheating, software issue	Close background apps, ensure cooling fan is unobstructed, perform a system restart, check for software updates.

If the problem persists after attempting these solutions, please contact customer support.

9. Specifications

Feature	Detail
Operating System	Android 13
CPU	8 Core (8*Cortex A55, up to 1.6GHz)
RAM	2GB
ROM	32GB
Display Size	9 Inches
Display Resolution	1280x720 IPS
Connectivity	4G LTE, Wi-Fi, Bluetooth, USB
Special Features	Wireless CarPlay, Wired Android Auto, DSP, GPS, Touchscreen, Steering Wheel Control
Audio Output Mode	Stereo
Mounting Type	Dashboard Mount
Item Weight	3.8 pounds
Package Dimensions	13.62 x 9.33 x 4.8 inches

10. Warranty and Support

10.1. Warranty Information

This MekedeTech product comes with a**1-Year Warranty** from the date of purchase. The warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications.

10.2. Customer Support

For technical assistance, warranty claims, or any questions regarding your MekedeTech Android 13 Car Radio, please contact MekedeTech customer support. Refer to your purchase documentation or the official MekedeTech website for contact details.

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