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› MekedeTech Android Car Radio Stereo Navigation User Manual for Dodge Challenger (2008-2014)

MekedeTech Black-4-Core 2+32G

MekedeTech Android Car Radio Stereo Navigation User Manual

Model: Black-4-Core 2+32G

1. PRODUCT OVERVIEW

The MekedeTech Android Car Radio Stereo Navigation system is designed as a direct replacement and upgrade for Dodge Challenger models from 2008 to 2014. This head unit features a touch screen display, wireless CarPlay, and Android Auto capabilities, enhancing your vehicle's infotainment system.

Key Features:

- Android 12 Operating System
- 4-Core A53 1.7GHz CPU
- 2GB RAM, 32GB ROM
- 9-inch IPS Touch Screen with 1024x600 Resolution
- Built-in Wireless CarPlay and Wired Android Auto
- Integrated GPS Navigation and Maps
- Steering Wheel Control Support
- Built-in WiFi Module and Bluetooth 5.0
- Support for various audio and video formats



Figure 1.1: The MekedeTech Android Car Radio Stereo Navigation unit, showcasing its 9-inch touch screen display and integrated controls, designed to fit seamlessly into the Dodge Challenger dashboard.

2. INSTALLATION AND SETUP

This unit is designed for plug-and-play installation for Dodge Challenger models from 2008 to 2014. All necessary accessories, including the dash kit, power cable, RCA cables, reversing camera cable, and USB cables, are included.

2.1 Before Installation

- Ensure the vehicle's battery is disconnected before beginning installation.
- Verify all included components against the packing list.
- Familiarize yourself with the vehicle's existing dashboard layout and wiring.

2.2 Installation Steps

1. Carefully remove the original head unit from your Dodge Challenger dashboard. Refer to your vehicle's service manual for specific instructions on dashboard disassembly.
2. Connect the provided power cable, RCA cables, and USB cables to the corresponding ports on the MekedeTech unit and the vehicle's wiring harness. Ensure all connections are secure.
3. If installing a reversing camera, connect the reversing camera cable to the unit and route it to the camera's location.
4. Integrate the new head unit into the dash kit.
5. Carefully slide the assembled unit into the dashboard opening, ensuring no wires are pinched.
6. Secure the unit in place using the vehicle's mounting hardware.
7. Reconnect the vehicle's battery.
8. Turn on the vehicle and test the unit's functionality.



Figure 2.1: Comparison of the Dodge Challenger dashboard before and after the installation of the MekedeTech Android Car Radio Stereo Navigation unit, demonstrating the seamless integration and upgraded display.

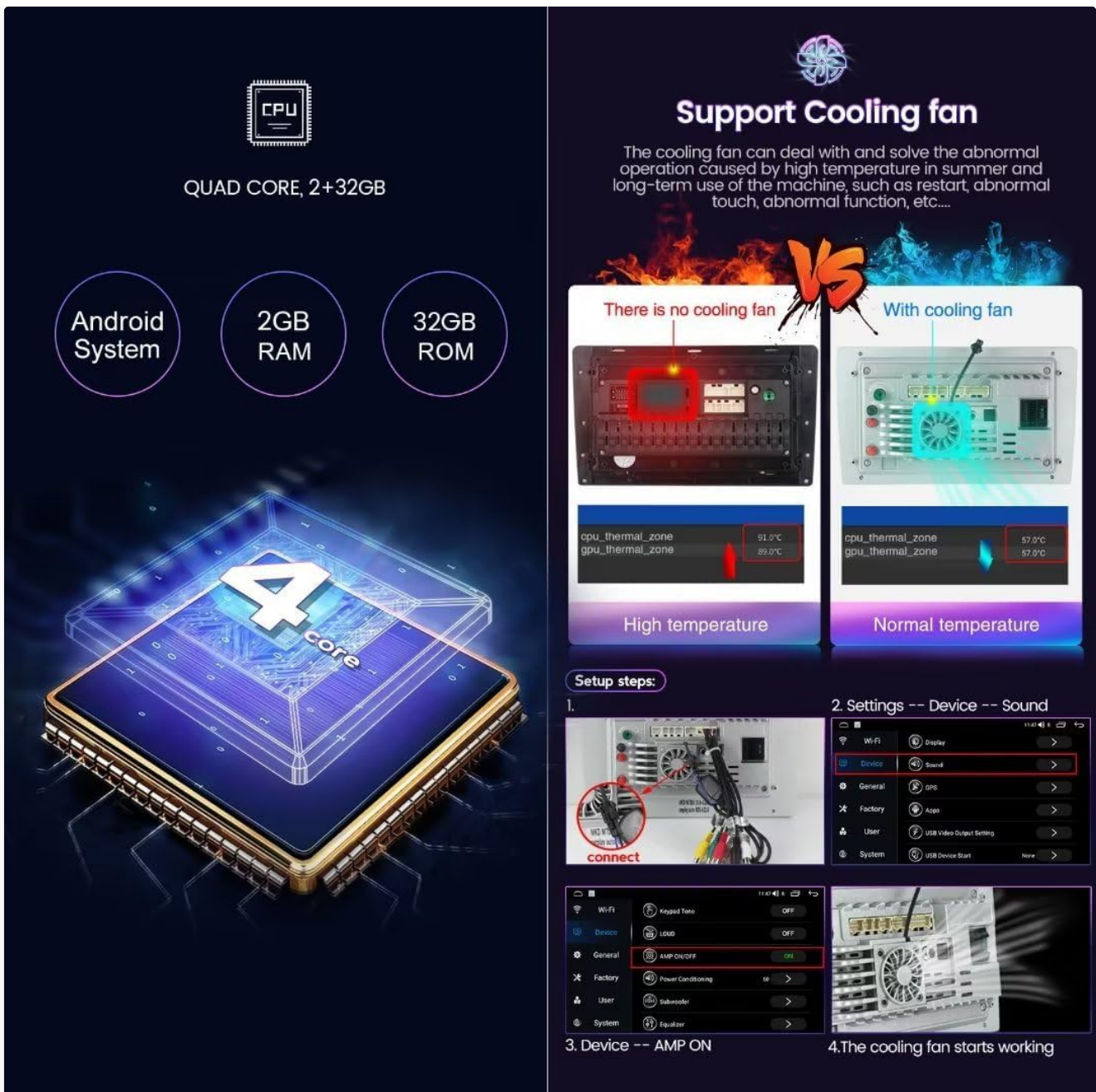


Figure 2.2: Diagram illustrating the internal components of the MekedeTech unit, including the quad-core CPU, 2GB RAM, and 32GB ROM. It also highlights the importance of the cooling fan for optimal performance and provides basic setup steps for connecting the fan and enabling the amplifier.

3. OPERATING INSTRUCTIONS

3.1 Basic Operation

- **Power On/Off:** Press and hold the power button on the unit or use the vehicle's ignition.
- **Volume Control:** Adjust volume using the physical knobs or steering wheel controls.
- **Touch Screen:** Navigate menus and select functions by tapping the 9-inch IPS touch screen.

3.2 Wireless CarPlay and Android Auto

The unit supports both wireless CarPlay (for iOS devices) and wired Android Auto (for Android devices).

Built-in Car-Play + Auto

car dvd player comes with car-play function, no need to purchase additional accessories.



Figure 3.1: Visual representation of the built-in CarPlay and Android Auto functionalities. It shows the main interface with common apps like Phone, Messages, Music, and Maps, and provides connection steps for both wireless CarPlay (iOS) via Bluetooth and "Car Link," and wireless Android Auto (Android) via Bluetooth and "Car Link."

3.2.1 Wireless CarPlay (iOS System)

1. Connect your iPhone to the unit via **Bluetooth**.
2. On the unit, select the "Car Link" application.
3. Wait for the connection to establish. CarPlay can also be connected via USB cable.

3.2.2 Wireless Android Auto (Android System)

1. Connect your Android phone to the unit via **Bluetooth**.
2. On the unit, select the "Car Link" application.
3. Wait for the connection to establish. Android Auto can also be connected via USB cable.

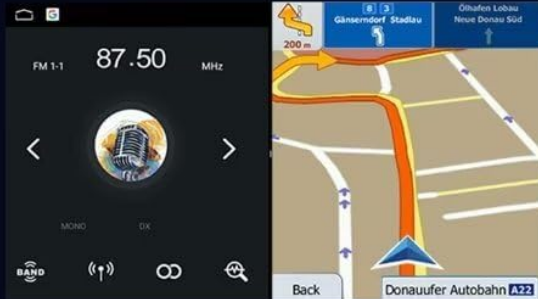
3.3 GPS Navigation

The unit features built-in GPS navigation with support for various map applications.

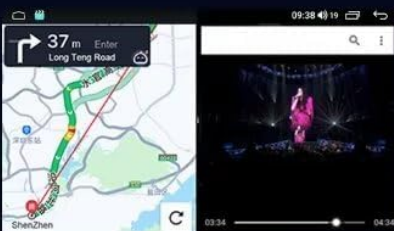
Support split screen

Support for two applications to be displayed on the screen at the same time, which makes the operation more convenient and faster

FM/AM Radio +MAP



MAP + Music



MAP + Online video

GPS NAVIGATION

Built-in global positioning system, omni-directional map display, synchronous display real-time traffic conditions, rapid and accurate positioning

GPS BDS GLONASS

The following maps are supported



For Navitel



For iGO



For Yandex



For Google



Figure 3.2: This image demonstrates the GPS navigation capabilities, showing support for GPS, BDS, and GLONASS systems, and compatibility with map applications like iGo, Yandex, and Google Maps. It also illustrates the split-screen function, allowing simultaneous display of navigation with other applications like FM radio, music playback, or online video.

3.3.1 Using Navigation

- Tap the "Navigation" or "Maps" icon on the home screen.
- Enter your destination using the on-screen keyboard or voice command (if supported).
- Follow the on-screen directions and voice prompts.

3.4 Split Screen Function

The unit supports displaying two applications simultaneously on the screen for enhanced convenience.

- To activate split screen, open the first application, then swipe from the side or use the multi-tasking button to select the second application.
- Adjust the size of each window by dragging the divider.

3.5 Steering Wheel Control

The unit retains original steering wheel control functions, allowing easy adjustment of songs, channels, and volume without taking hands off the wheel.

- Access the "Steering Wheel Control" settings in the unit's menu.
- Follow the on-screen prompts to map your vehicle's steering wheel buttons to the desired functions.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your MekedeTech Android Car Radio Stereo Navigation unit.

4.1 Screen Cleaning

- Use a soft, lint-free cloth to gently wipe the touch screen.
- For stubborn smudges, slightly dampen the cloth with water or a screen-safe cleaner. Avoid harsh chemicals.

4.2 Software Updates

- Periodically check for software updates via the unit's settings menu or the MekedeTech official website.
- Follow the provided instructions carefully when performing updates to prevent data loss or system malfunction.

4.3 General Care

- Avoid exposing the unit to extreme temperatures or direct sunlight for prolonged periods.
- Do not spill liquids on the unit.
- Ensure proper ventilation around the unit to prevent overheating.

5. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your MekedeTech unit.

Problem	Possible Cause	Solution
Unit does not power on.	Loose power connection, blown fuse, vehicle battery issue.	Check power cable connections. Inspect vehicle fuses. Ensure vehicle battery is charged.
No sound output.	Volume too low, incorrect audio source, loose speaker wires, amplifier issue.	Increase volume. Select correct audio source. Check speaker wire connections. Verify amplifier settings.
Touch screen unresponsive.	System freeze, dirt on screen, software glitch.	Restart the unit. Clean the screen. Perform a factory reset (refer to settings menu).
CarPlay/Android Auto not connecting.	Bluetooth not paired, "Car Link" app not selected, phone settings.	Ensure Bluetooth is on and paired. Open "Car Link" app. Check phone's CarPlay/Android Auto settings. Try a different USB cable if using wired connection.
GPS signal lost or inaccurate.	Poor satellite reception, antenna issue, outdated maps.	Move to an open area. Check GPS antenna connection. Update map data if available.

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

6. SPECIFICATIONS

Feature	Detail
System	Android 12 OS
CPU	4-Core A53 1.7GHz
Memory	2GB RAM, 32GB ROM
Screen Size	9 Inches
Screen Resolution	1024x600 IPS Touch Screen
Power Output	4*50W
Connectivity	Built-in WiFi, Bluetooth 5.0, USB
Navigation	Built-in GPS, supports iGo, Yandex, Google Maps
Car Integration	Wireless CarPlay, Wired Android Auto, Steering Wheel Control
Audio Formats	APE/FLAC/WAV/MP3/WMA etc.
Video Formats	MKV/RMVB/AVI/MP4/MDV etc.
Picture Formats	PNG/JPEG/JPG/GIF/WBMP/BNP etc.
Product Dimensions	9 x 9 x 9 inches

7. WARRANTY AND SUPPORT

MekedeTech products are backed by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official MekedeTech website.

7.1 Customer Support

If you encounter any issues or have questions regarding your MekedeTech Android Car Radio Stereo Navigation unit, please contact MekedeTech customer support through their official channels. Provide your product model number and a detailed description of the issue for efficient assistance.

MekedeTech Store: [Visit the MekedeTech Store on Amazon](#)