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Road Top 38622cac-83ce-4a3f-adec-038fabe76dbf

Road Top Wireless CarPlay/Android Auto Retrofit Kit User Manual

Model: 38622cac-83ce-4a3f-adec-038fabe76dbf

1. Product Overview

The Road Top Wireless CarPlay/Android Auto Retrofit Kit is designed to integrate advanced smartphone connectivity into select Audi vehicles equipped with the MMI 3G system. This decoder box allows users to access Apple CarPlay and Android Auto functionalities, including navigation, music, messaging, and voice control, while retaining the original car's interface and controls. It is not a replacement car screen but an add-on module that works alongside your existing factory system.



Figure 1: Overview of the Road Top Wireless CarPlay/Android Auto Retrofit Kit components and its integration into an Audi dashboard, showing a smartphone connected wirelessly.

2. Vehicle Compatibility

This retrofit kit is specifically designed for the following Audi models with the Factory MMI 3G System:

- Audi A6 S6 (2010-2011 Year)
- Audi Q7 (2010-2015 Year)

It is crucial to verify your car's dashboard and MMI system match the compatible configurations shown in the product images to ensure proper functionality.



Figure 2: Visual guide for compatible Audi MMI 3G system dashboards (A6/A7/S6/S7 2010-2011 and Q7 2010-2015) and incompatible newer models.

3. Key Features

- **Wireless/Wired CarPlay:** Seamless integration with Apple CarPlay for iPhone users, supporting navigation, music, messages, and calls.
- **Wireless/Wired Android Auto:** Full compatibility with Android Auto for Android smartphone users, offering similar functionalities.
- **Mirrorlink Functionality:** Supports screen mirroring (AirPlay for iPhone, AutoLink for Android) to display your phone's screen directly on the car's display.
- **Original Car System Retention:** The kit allows switching between the original MMI radio system and the CarPlay/Android Auto system by long-pressing a specific car knob button (e.g., "NAV" or "MEDIA").
- **Camera Support:**

- Supports factory original reverse camera and parking radar.
- Supports aftermarket reverse cameras and 360-degree camera systems.
- Supports front view camera DVR (CVBS input).

- **Original Car Knob and Steering Wheel Control:** The system is designed to work with the car's existing controls. Voice control button and Tel button on the steering wheel are supported.
- **Voice Control:** Supports Siri and Google Assistant voice commands, enabling hands-free operation for navigation, calls, and music.



Figure 3: Illustration of switching between the original OEM car system and the new CarPlay/Android Auto interface using the MMI controller.

Camera Function & Original Car Button Control

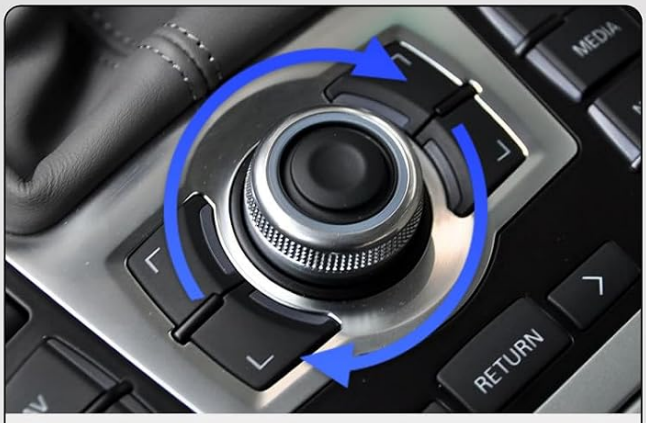
It is designed specifcally for driving scenarios and works in conjunctionwith the on-board control of the vehicle.Operate the knobs andsteering wheel buttons on the original car to control CarPlay



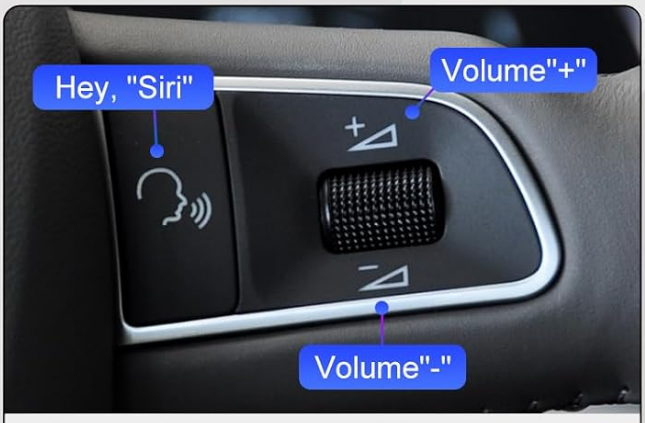
Support Camera Function

1. support factory original reverse camera, parking rader
2. support aftermarket reverse camera and 360 camera
3. support front view camera DVR (CVBS input)

Compatible With Original Car： Always responsive to your needs and easy to drive



Original car knob operation



Original car steering wheel operation

Figure 4: Depiction of camera function support and how original car knob and steering wheel buttons are used to control CarPlay.



Figure 5: Example of the MirrorLink function displaying a smartphone screen on the car's MMI display.

4. Installation Guide

Installation of the Road Top Retrofit Kit requires removal of the car dashboard components to access the original CD host device. It is recommended to have professional installation or proceed with caution if you have experience with car electronics.

4.1. Pre-Installation Checklist

- Ensure your vehicle is compatible (Audi A6 S6 2010-2011 or Audi Q7 2010-2015 with MMI 3G System).
- Gather necessary tools (e.g., trim removal tools, screwdrivers, wiring tools).
- Disconnect the car battery before starting any electrical work.
- Familiarize yourself with your car's dashboard removal procedure. Online resources or repair manuals may be

helpful.

4.2. Wiring Connections

The kit includes several cables for integration:

- **Power Cable:** Connects the retrofit box to the car's power supply.
- **LVDS Cable:** Connects the retrofit box to the original MMI screen and head unit for video signal.
- **USB Cable:** For wired CarPlay/Android Auto and media playback.
- **Wi-Fi Antenna:** For wireless connectivity. Ensure it's placed in an optimal location, not inside the center console or under the windshield.
- **AMI Cable:** (If applicable) For audio integration.
- **KT Cable:** Specific connection for certain vehicle models.



Figure 6: Detailed view of the Carplay box and included cables (Power, LVDS, USB, Wi-Fi antenna, AMI, KT cables) along with a basic wiring diagram.

4.3. Post-Installation Steps

After connecting all wires and before reassembling the dashboard, it is essential to test all features to confirm proper

functionality. This includes:

- Powering on the system and verifying the display.
- Testing CarPlay/Android Auto connectivity (both wired and wireless).
- Checking audio output and microphone functionality.
- Verifying camera inputs (reverse, front, 360-degree).
- Testing original car knob and steering wheel controls for the new system.

Most installation issues arise from incorrect cable connections or settings. If problems occur, re-check connections and settings before fully reassembling the dashboard.

5. Operating Instructions

5.1. Switching Between Systems

To switch between your original Audi MMI system and the CarPlay/Android Auto interface, long-press the "NAV" or "MEDIA" button on your car's MMI controller for approximately 2 seconds.

5.2. Connecting Your Smartphone

- **For Wireless CarPlay/Android Auto:** Ensure your phone's Bluetooth and Wi-Fi are enabled. Connect to the kit's Bluetooth signal first, then follow on-screen prompts to establish the Wi-Fi connection for data transfer.
- **For Wired CarPlay/Android Auto:** Connect your smartphone to the kit's USB port using a compatible USB cable.

5.3. Using Voice Control (Siri/Google Assistant)

The kit utilizes your car's original internal microphone for voice commands. To activate Siri or Google Assistant, press the voice control button on your steering wheel or say "Hey Siri" (for Apple CarPlay) or "Hey Google" (for Android Auto).

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Video 1: Demonstration of the Road Top Wireless Carplay Module for Audi Car, showcasing features like navigation, music playback, messaging, and phone calls using voice commands and original car controls.

5.4. Media Playback

Access music, podcasts, and other audio content through your connected smartphone's apps (e.g., Apple Music, Spotify, Pandora, Waze). You can control playback using the car's MMI knob or supported steering wheel controls.

5.5. Navigation

Utilize your preferred navigation apps (e.g., Apple Maps, Google Maps, Waze) directly on the car's display. Voice commands can be used to search for destinations and get directions.

6. Maintenance

The Road Top Retrofit Kit is designed for durability and requires minimal maintenance. Keep the unit and connections free from dust and moisture. Avoid exposing the unit to extreme temperatures. If you experience persistent issues, refer to the troubleshooting section or contact customer support.

7. Troubleshooting

Problem	Possible Cause	Solution
No display or system not turning on.	Incorrect power connection; loose LVDS cable.	Verify all power and LVDS cable connections are secure. Ensure the car's MMI system is powered on.
CarPlay/Android Auto not connecting wirelessly.	Bluetooth/Wi-Fi issues; Wi-Fi antenna placement.	Ensure Bluetooth is paired first, then Wi-Fi. Check Wi-Fi antenna placement for optimal signal. Restart both phone and car system.
Microphone/Voice Control not working.	System not utilizing original car microphone.	The system is designed to use the OEM internal microphone. Ensure no external microphone is connected or interfering. Verify settings within the retrofit kit.
Screen display issues (e.g., incorrect size, cut-off).	Incorrect display settings within the retrofit kit.	Access the kit's setup options and adjust display settings. Some users report needing to restart the car for settings to apply correctly.
Steering wheel controls not fully functional.	Limited support for certain buttons; incorrect wiring.	Only voice control and Tel buttons are typically supported. Verify wiring for steering wheel control module.
Airbag fault light after installation.	Ignition turned on with disconnected components (e.g., climate control panel).	This requires a VAG-COM cable or dealer service to clear the fault code. Always disconnect the battery before working on electrical components.

8. Specifications

Feature	Detail
Brand	Road Top
Model Number	38622cac-83ce-4a3f-adec-038fabe76dbf
Item Weight	2.03 pounds
Package Dimensions	8.5 x 5.91 x 3.82 inches
Connectivity Technology	USB, Wi-Fi
Controller Type	Android (refers to Android Auto compatibility)
Special Feature	Built-In Bluetooth
Compatible Devices	Smartphone (Apple iOS and Android)

Feature	Detail
Connector Type	3.5mm Jack, USB
Audio Output Mode	AUX
Color	Black
Number of Channels	4

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your product or contact Road Top Direct, the seller, through their official channels. Most problems can be resolved with correct cable connections and settings. If you encounter issues, it is recommended to reach out for assistance before attempting complex troubleshooting.

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Details

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

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