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› [JOYEAUTO](#) /

› [JOYEAUTO Wireless CarPlay Android Auto Retrofit Kit Decoder User Manual for Jeep Uconnect 8.4 \(2016-2020 MY\)](#)

JOYEAUTO Wireless CarPlay Android Auto Retrofit Kit Decoder

JOYEAUTO Wireless CarPlay Android Auto Retrofit Kit Decoder User Manual

For Jeep Cherokee, Commander, Compass with Uconnect 8.4 (2016-2020 MY)

1. INTRODUCTION

Thank you for choosing the JOYEAUTO Wireless CarPlay Android Auto Retrofit Kit Decoder. This device integrates advanced smartphone connectivity into your vehicle's existing Uconnect 8.4 system, providing access to features like Apple CarPlay, Android Auto, AirPlay, Mirrorlink, USB media playback, and enhanced reverse camera functions. This kit is designed to work with Jeep Cherokee, Commander, and Compass models equipped with the Uconnect 8.4 system from model years 2016 to 2020. Please note that this is a modification kit for your existing system, not a full Android radio replacement.



Image 1.1: The JOYEAUTO module and its integration with a Jeep Uconnect 8.4 system, demonstrating both CarPlay and Android Auto interfaces.

2. PACKAGE CONTENTS

Please verify that all items listed below are included in your package before proceeding with installation.

- 1x CarPlay Module Unit
- 1x Switch Button

- 1x AUX Adapter
- 1x LVDS OUT Cable
- 1x Microphone
- 1x Power Cable
- 1x USB Cable
- 1x Switch Circuit Board
- 1x AUX Cable
- 1x 54PIN Harness
- 1x WiFi Antenna



Image 2.1: All components included in the JOYEAUTO Retrofit Kit package.

3. INSTALLATION GUIDE

Installation of this retrofit kit requires technical knowledge and experience with automotive electronics. **It is highly recommended to seek professional installation from a qualified technician.** Incorrect installation can damage your vehicle's electrical system or the product itself. If you choose to install it yourself, proceed with caution and ensure the vehicle's battery is disconnected before starting.

General Installation Steps (Consult a professional for detailed vehicle-specific instructions):

1. **Preparation:** Ensure the vehicle is turned off and the battery is disconnected. Gather all necessary tools.
2. **Access the Uconnect Unit:** Carefully remove the trim panels and components required to access the rear of your vehicle's Uconnect 8.4 head unit.
3. **Connect the Module:** Integrate the CarPlay module with the existing wiring harness using the provided cables (power cable, LVDS OUT cable, 54PIN harness). These connections typically involve intercepting the original display signals.
4. **Install Accessories:** Connect the microphone for voice commands and calls. Install the WiFi antenna for wireless connectivity. Route the USB cable to a convenient location for USB media playback and wired connections.
5. **Install Switch Button:** Mount the external switch button in an accessible yet discreet location within the dashboard. This button is used to toggle between the original Uconnect system and the CarPlay/Android Auto interface.
6. **Test Connections:** Before reassembling the dashboard, reconnect the battery and perform initial tests to ensure the module powers on and the display switches correctly.
7. **Reassemble:** Once functionality is confirmed, carefully reassemble all removed trim panels and components.



Image 3.1: Illustration of the external switch button used to activate the CarPlay system and the continued use of original touch screen controls.

4. OPERATING INSTRUCTIONS

4.1 Switching Between Systems

To switch from your vehicle's original Uconnect system to the CarPlay/Android Auto interface, press the external switch button that was installed during setup. Pressing it again will typically return you to the original Uconnect system.

4.2 Wireless CarPlay / Android Auto Connection

To connect your smartphone wirelessly:

- Step 1:** Turn on both Bluetooth and Wi-Fi on your smartphone.
- Step 2:** On your phone, search for Bluetooth devices and connect to the CarPlay Bluetooth name, typically displayed as "Autosmartink-xxxx".
- Step 3:** When a prompt appears on your phone to connect to CarPlay or Android Auto, confirm the connection to complete the pairing process.



Image 4.1: Steps for establishing a wireless connection for CarPlay or Android Auto.

4.3 Core Functions

- Navigation:** Use Apple Maps, Google Maps, or other supported navigation apps directly on your car's display.

- **Music & Media:** Stream music from Spotify, Apple Music, or other audio applications.
- **Phone Calls & Messaging:** Make and receive calls, and send/receive messages through the integrated interface. The built-in microphone supports clear communication.

4.4 Voice Control

Utilize your smartphone's voice assistant (Siri for Apple CarPlay, Google Assistant for Android Auto) for hands-free control. Simply say "Hey Siri" or activate Google Assistant to:

- Control navigation (e.g., "Navigate to the hotel")
- Make phone calls
- Play music
- Guide to a specific position
- Enlarge maps
- Find restaurants



Image 4.2: Examples of voice commands using Siri for hands-free operation.

4.5 Screen Mirroring (Mirrorlink)

The kit supports Mirrorlink for both Apple and Android phones, allowing you to display your phone's screen directly on the car's Uconnect display via a wired connection. This feature provides lag-free mirroring, compatible with various applications.

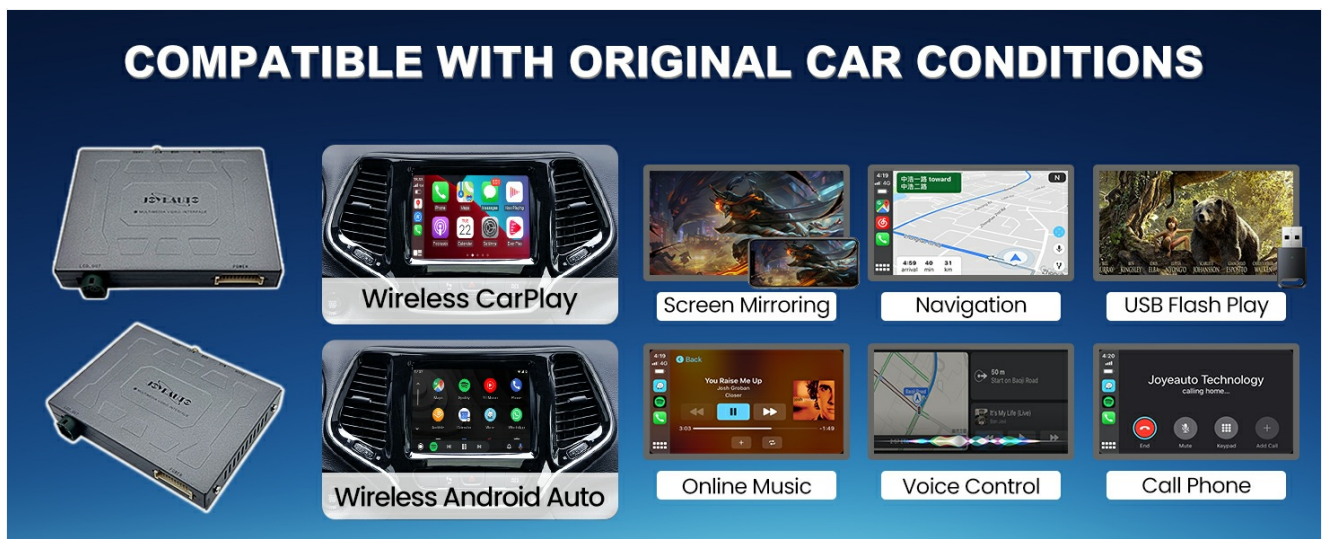


Image 4.3: Screen Mirroring in action, displaying a smartphone's content on the vehicle's screen.

4.6 USB Media Playback

Connect a USB flash drive to the provided USB port to play audio or video files directly through the system.



Image 4.4: The USB Flash Play feature, allowing media playback from a USB drive.

4.7 Reverse Camera Functions

The system supports both aftermarket and original vehicle cameras, including front, rear, and 360-degree views. When the vehicle is shifted into reverse, the camera feed will automatically display on the screen, complete with dynamic guidelines for easier parking.



Image 4.5: Automatic display of the reverse camera feed with dynamic guidelines.

4.8 Control Methods

The system maintains compatibility with your vehicle's original control methods:

- **Touch Screen Control:** Directly interact with the CarPlay/Android Auto interface via the Uconnect 8.4 touch screen.
- **Steering Wheel Control:** Use your vehicle's steering wheel buttons, including the roller button, to navigate and control apps.
- **OEM Knob Control:** Utilize the original equipment manufacturer (OEM) knob controls for seamless integration.

Product Information



Host (Size:120*90*19mm)



Image 4.6: The system supports control via touch screen, steering wheel buttons, and OEM knobs.

5. MAINTENANCE

The JOYEAUTO Retrofit Kit Decoder requires minimal maintenance. To ensure optimal performance and longevity:

- Keep the module and connections free from dust and debris.
- Avoid exposing the unit to extreme temperatures or moisture.
- Do not use harsh chemicals or abrasive cleaners on the unit or your vehicle's display. Use a soft, dry cloth for cleaning.

6. TROUBLESHOOTING

If you encounter issues with your JOYEAUTO Retrofit Kit, consider the following basic troubleshooting steps:

- **No Display/Black Screen:** Ensure all power and video cables are securely connected. Check the external switch button to confirm you are in the CarPlay/Android Auto interface mode.
- **No Sound:** Verify that the AUX adapter is correctly connected and that your vehicle's audio input is set to AUX. Check your phone's volume and the car's volume settings.
- **Wireless Connection Issues:** Ensure Bluetooth and Wi-Fi are enabled on your phone and the correct device is selected. Try forgetting the device on your phone and re-pairing.
- **Unresponsive Controls:** Restart your phone and the vehicle's ignition. Check if the original Uconnect system controls are functioning correctly.

If problems persist after attempting these steps, please contact JOYEAUTO customer support for further assistance.

7. SPECIFICATIONS

Product Information



Host (Size:120*90*19mm)



Image 7.1: Product information detailing the module's dimensions and connectivity ports.

Feature	Description
Brand	JOYEAUTO
Compatible Models	Jeep Cherokee, Commander, Compass with Uconnect 8.4 (2016-2020 MY)
Connectivity Technology	Bluetooth, Wi-Fi, USB
Special Features	Wireless Apple CarPlay, Wireless Android Auto, AirPlay, Mirrorlink, USB Play, Reverse Camera Support
Compatible Devices	Smartphones (iOS and Android)
Audio Output Mode	Stereo
Control Methods	Touch Screen, Steering Wheel Buttons, OEM Knob, Voice Control
Module Dimensions (LWH)	120mm x 90mm x 19mm (approx.)

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The JOYEAUTO Wireless CarPlay Android Auto Retrofit Kit Decoder comes with a **12-month product warranty** from the date of purchase, covering manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, installation guidance, or any questions regarding your product, please do not hesitate to contact JOYEAUTO customer support. Our professional technical team is available to help and aims to reply quickly within 24 hours.

Contact Information: Please refer to the contact details provided with your product packaging or on the official JOYEAUTO website.

