

# INSTALLATION GUIDE MANUAL



**Applicable to Mercedes-Benz NTG4.5/4.7 System 2012-2015**

**And Mercedes-Benz NTG5.0 System 2015-2018**

# Contents

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## Retrofit Kit Package List



CarPlay Module



Wifi Antenna



CarPlay LVDS Y Cable



Main Harness Cable

## Package List: CarPlay Module



CarPlay module

| Port  |                          |
|-------|--------------------------|
| ANT   | Plug in 5G(Wifi) Antenna |
| POWER | Plug in Main Cable       |
| LVDS  | Plug in LVDS Y Cable     |

### Product Warranty

Thank you for purchasing our product.

We offer a one-year warranty from the date of purchase on the invoice.

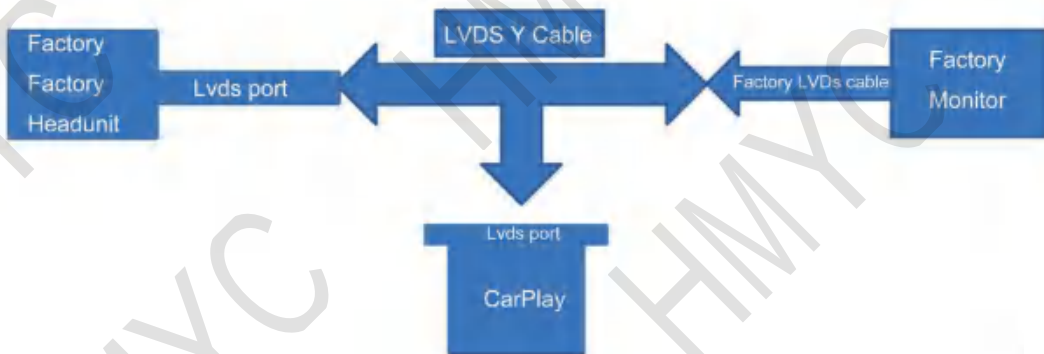
This product has been tested and has passed our strict quality control processes. Any product defects from the factory are covered by the warranty.

Any damage caused after receiving the product will not be covered by the warranty. Any damage from natural disaster, installation work, mishandling, or improper use will not be covered by warranty. Any warranty claims after the one-year mark will be denied.

## Package List :CarPlay LVDS Y Cable



| Cable                               | Direction                   |
|-------------------------------------|-----------------------------|
| LVDS CABLE TAG(Male Type)           | To CarPlay LVDS Port        |
| Factory Factory Headunit(Male Type) | To Factory Factory Headunit |
| Factory Monitor(Female Type)        | To Factory Monitor          |



## Check Before Installation

Before installing this CarPlay retrofit kit, please ensure that your car has the Mercedes-Benz NTG4.5/4.7 or NTG5.0 system. If you are unsure whether your car is equipped with the NTG4.5/4.7 or NTG5.0 system, feel free to contact us.

Additionally, check the original vehicle functions, such as screen operation, audio operation, Bluetooth, buttons/controls, etc. Also, check for any existing warning lights, such as airbags, tire pressure monitoring system (TPMS), etc. If there are current issues with these functions, make sure they are resolved before installation.

If your vehicle has previously been fitted with an aftermarket 360 system, it may no longer support the installation of this CarPlay module.

As mentioned above, check the type and operation of the display to ensure it is functioning normally.



NTG5.0



NTG4.7



NTG4.5



NTG4.5

## MODULE INSTALLATION

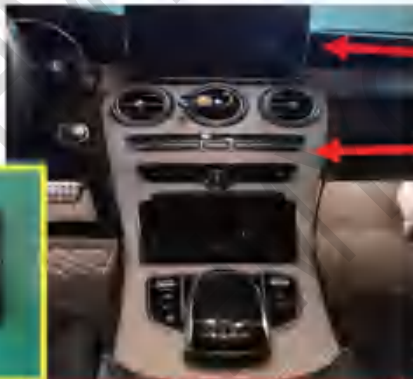
### CAUTION

**Never turn on the ignition during installation  
Disconnect battery if necessary**

*Never turn on the ignition during installation Disconnect battery if necessary*

## Determine Location of CarPlay Module

After disassembly of panels, determine a suitable location for the CarPlay module keeping in mind the length of the CarPlay cables.



Behind the monitor

Behind or under the  
Factory Radio  
Headunit



**WARNING:** The Bluetooth antenna is located within the module. Please ensure that its signal won't be interrupted by any heavy metals or plastics.

**WARNING:** The module can overheat if there is no proper ventilation. Ensure that the module is not in close proximity to other high temperature components or environments.

Note: Pictures in this manual are taken in a Mercedes C class vehicle. Other models will vary in appearance and characteristics. This manual covers the installation of the CarPlay system only

Chapter #1

# **Dash Removal**

## Chapter #1. Dash Removal



*Note: Pictures in this manual are taken in a Mercedes C class vehicle.*

*Other models will vary in appearance and characteristics. This manual covers the installation of the CarPlay system only*

## Chapter #1. Dash Removal



This is where the CarPlay module will be installed inside later.  
Please refer to this.

Remove the screws for fix to the Factory Radio Headunit bracket as shown

Note: Pictures in this manual are taken in a Mercedes C class vehicle. Other models will vary in appearance and characteristics, This manual covers the installation of the CarPlay system only

## Chapter #2

### **Module Installation**

# Wiring Diagram

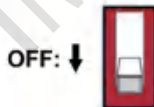
Apple Car Play    Android Auto



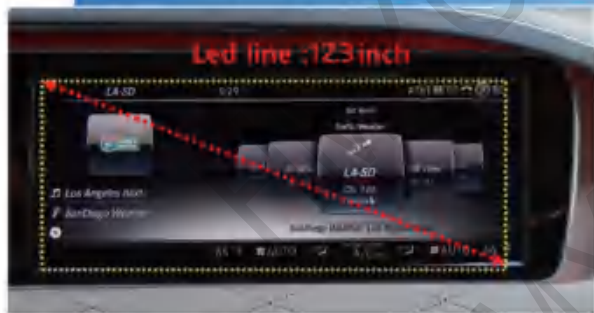
## Chapter #2. Dip Switch Configuration-**CarPlay Module**

### CAUTION:

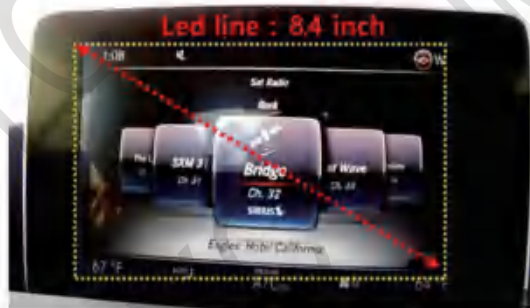
Please make sure CarPlay POWER is disconnected when adjusting the dip switches. Once the dip switches are set, then connect CarPlay POWER



## Chapter #2. Check the Mercedes Screen Sizes



There may be a slight difference depending on the size of the bezel.



## Chapter #2. Dip Switch Configuration



| 1   | 2   | Car Model                |           |
|-----|-----|--------------------------|-----------|
| OFF | OFF | C/GLCN/S                 |           |
| OFF | ON  | AB/E/CLAVCLS/GLA/GLE/GLS |           |
| 3   | 4   | Screen Size              |           |
| OFF | ON  | 800*480                  | 7.4"/8.4" |
| ON  | OFF | 960*540                  | 8.4"      |
| ON  | OFF | 1440*540                 | 12.3"     |

## Chapter #2. Factory Radio

(Images shown on this page may vary)



Factory LVDS Connector(Video)

Factory Main Connector

The shape of the Main Connector and LVDS connector is the same. However, your location may vary. **The LVDS connector we will use is BLUE.**

## Chapter #2.Wiring Connection

(Images shown on this page may vary)



Disconnect the LVDS video Cable of Factory Radio Headunit.

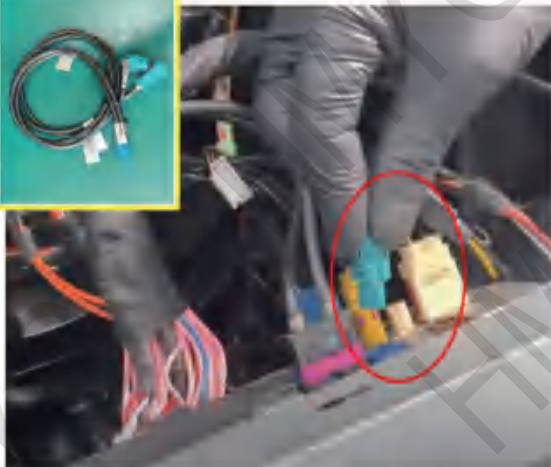
## Chapter #2.Wiring Connection ( **CarPlay LVDS Y Cable** )



Plugin the CarPlay LVDS Y Cable to Factory LVDS Cable

If it is not connected properly, the screen may not appear.

## Chapter #2.Wiring Connection(**CarPlay LVDS Y Cable**)



Plug in the CarPlay LVDS Cable to Factory Radio Headunit LVDS Connector.  
If it is not connected properly, the screen may not appear.

## Chapter #2.Remove Fiber Optic Cable

Lift this tab GENTLY  
to release



If the Factory Radio Harness has the fiber optic cable, disconnect from the Factory Radio Harness.

If it is not connected correctly, there may be no sound or noise may be heard.

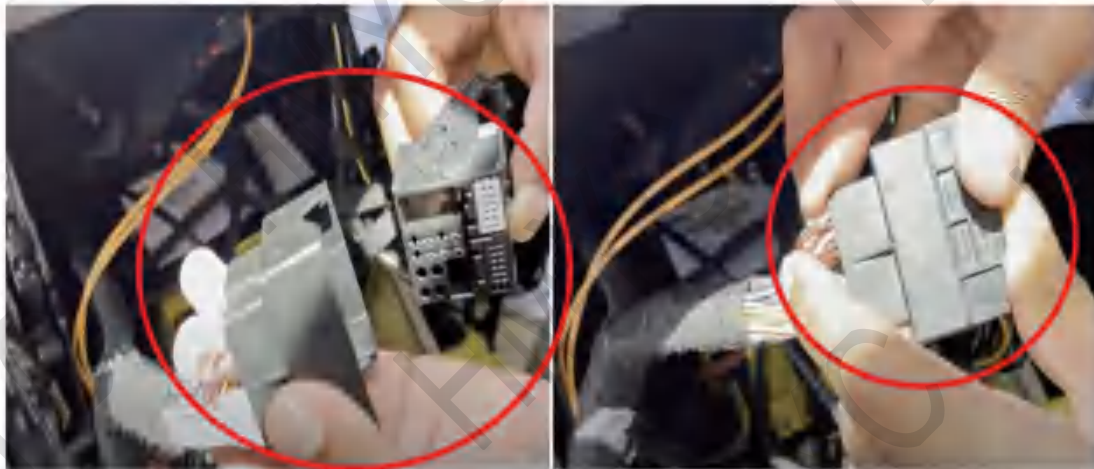
## Chapter #2. Fiber Optic Cable ( **CarPlay Main Cable** )



Reconnect the fiber optic cable to the CarPlay Radio Harness(CarPlay Main Cable).

**If it is not connected correctly, there may be no sound or noise may be heard.**

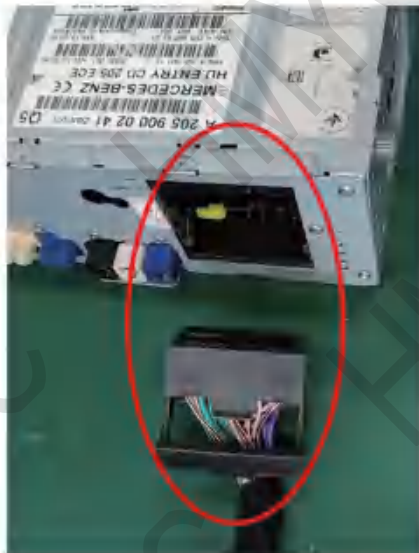
## Chapter #2.Wiring Connection (**CarPlay Main cable**)



Connect the CarPlay Main Cable with the Factory Radio main cable.

**If it is not connected correctly, the audio may not work properly.**

## Chapter #2. Wiring Connection( **CarPlay Main Cable** )



Connect to the back of the Factory Radio Headunit.

**If it is not connected correctly, the audio may not work properly.**

## Chapter #2.Cable Route( **CarPlay USB Cable** )



Pass the CarPlay USB Cable through to the bottom of the Factory radio lower gear shift box.

**If it is not connected correctly, Wired CarPlay may not operate properly.**

## Chapter #2.Wiring Connection

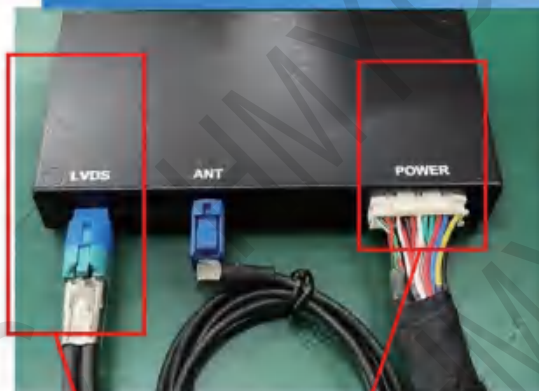
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**CarPlay Main Cable wrap with the foam tape.**

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## Chapter #2. Wiring Connection( **CarPlay Module** )



CarPlay Main Cable

CarPlay LVDS Y Cable



Connect the cable to the CarPlay Module

## Chapter #2.Wiring Connection( **WiFi Antenna**)



### WiFi Antenna

Peel the tap off the Wi-Fi Antenna, and stick it to the interior of where the Factory radio came out of. Only stick the Wi-Fi antenna to **NON-METAL AREA**.

## Chapter #2.Wiring Connection( **CarPlay Module**)

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Confirm the Wifi Antenna and plug in the CarPlay

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## Chapter #2. Wiring Connection



DIP Switch Settings

| 1   | 2   | Car Model                 |           |
|-----|-----|---------------------------|-----------|
| OFF | OFF | C/GLC/V/S                 |           |
| OFF | ON  | A/B/E/CLA/CLS/GLA/GLE/GLS |           |
| 3   | 4   | Screen Size               |           |
| OFF | ON  | 800*480                   | 7.4"/8.4" |
| ON  | OFF | 960*540                   | 8.4"      |
| ON  | ON  | 1440*540                  | 12.3"     |

**This is important,  
so check the dip switch settings again.**

## Chapter #2. Wiring Connection



| Port  |                          |
|-------|--------------------------|
| ANT   | Plug in 5G(WiFi) Antenna |
| POWER | Plug in Main Cable       |
| LVDS  | Plug in LVDS Y Cable     |

## Chapter #2. Wiring Connection



Assembly is the reverse order of dash removal.

## Chapter #2. Factory Audio Source(**Bluetooth**)



If you choose MEDIA in the factory radio menu and then choose **Bluetooth**, sound out from Mercedes speakers.

**CarPlay & Android Auto are closely related to mobile phones. If it is connected properly but there is no sound, try increasing the volume on your phone (Media Volume).**

## Chapter #2. CarPlay Audio Setting(**Bluetooth**)



**Factory Audio Source :Bluetooth**

**Setting : Use the original BlueTooth Audio = On**

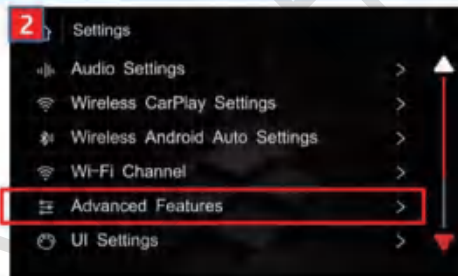
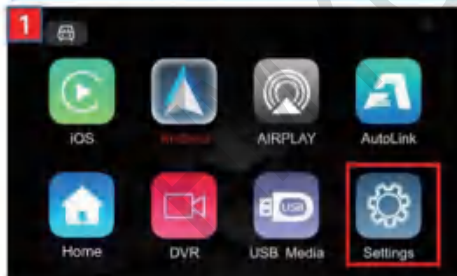
## Chapter #3

### Test

#### CAUTION

Never turn on the ignition with removed the Head Unit

## Chapter #3.Rear Camera Settings



## Chapter #3.Rear Camera Settings



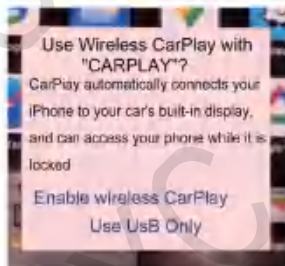
(Images shown on this page may vary)

## Chapter #3. Radio Settings



Long Press Back Arrow button on center console to switch between CarPlay and Factory screen

## Chapter #3.Connecting Phone



**Apple Lightning Cable**



**Android Cable**

**Connect your phone with an original USB cable for wired Apple CarPlay and Android Auto.**

For wireless Apple CarPlay, connect with the USB cable first and then the iPhone will ask two questions. The second question will ask if you want to "Enable Wireless". After selecting wireless, leave phone connected for 3 to 4 minutes. Then disconnect and Apple CarPlay will connect wireless.

Make sure Bluetooth and Wi-Fi are both enabled on your phone.



**We recommend using for each phone manufacturer genuine cable  
Please. Never using "Adapter Type and Multi cable**

## Chapter #3.Factory original Bluetooth

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**Phone calls must be made over the original Bluetooth.**

**Ensure your phone is connected to Mercedes Bluetooth first.**

### **For Apple CarPlay**

To make a call, press and hold the controller knob until Siri appears on the screen. Then tell Siri to make the call for you. This will force the call through Mercedes Bluetooth.

### **For Android Auto and CarPlay**

To receive a call, answer the call with the answer button on the steering wheel. This will force the call through Mercedes Bluetooth.

**If Factory BT calls do not work, check that Use the original BlueTooth Audio is ON in CarPlay settings.**

### **For Android Auto**

To make a call, push the controller knob to the right and wait for Google Assistant. Then tell Google Assistant to make the call for you. This will force the call through Mercedes Bluetooth.



## Chapter #3. Wireless Andriod Auto Settings



Select Wireless Android Auto Settings > Pairing. Then search for the CarPlay BT shown on the car screen in your phone's Bluetooth settings and pair to it, After pairing, Android Auto will be wireless.

**Make sure Bluetooth and Wi-Fi are both enabled on your phone.**

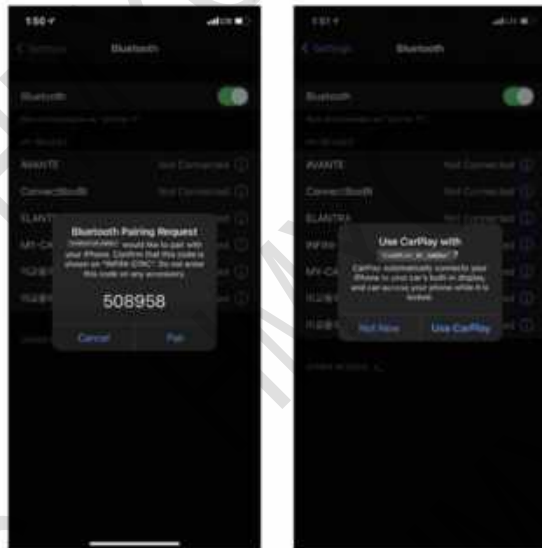
## Chapter #3. Wireless CarPlay Settings



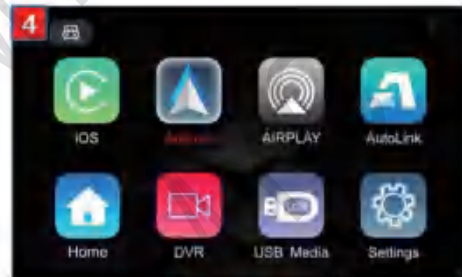
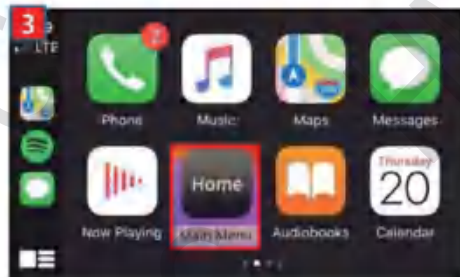
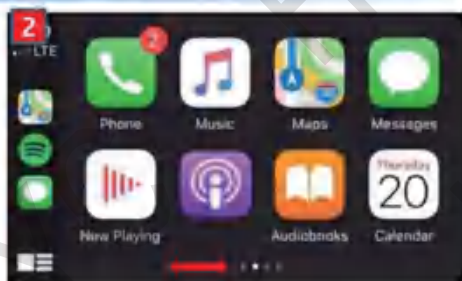
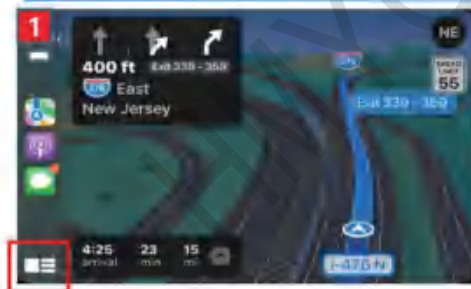
Select Wireless CarPlay Settings > Discover and connect devices. Then search for the CarPlay BT shown on the car screen in your phone's Bluetooth settings and pair to it. After pairing, CarPlay will be wireless.

Make sure Bluetooth and Wi-Fi are both enabled on your phone.

## Chapter #3. Wireless CarPlay Settings

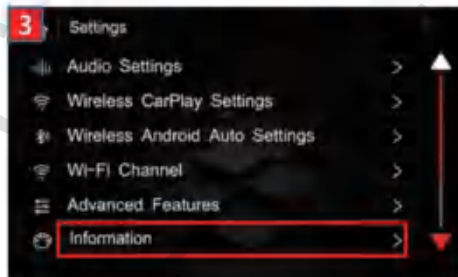
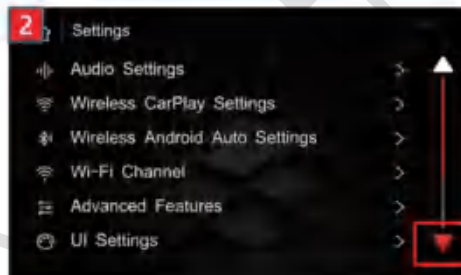
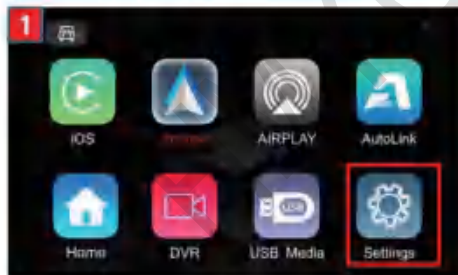


## Chapter #3. Go to the CarPlay Home screen



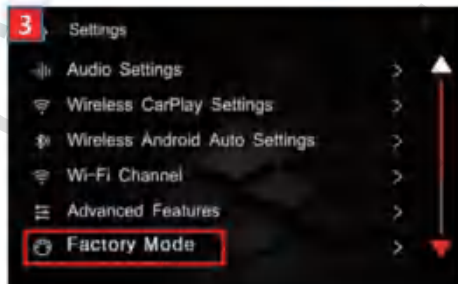
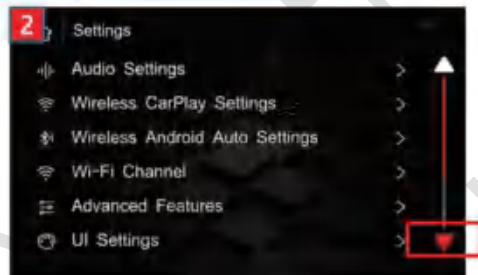
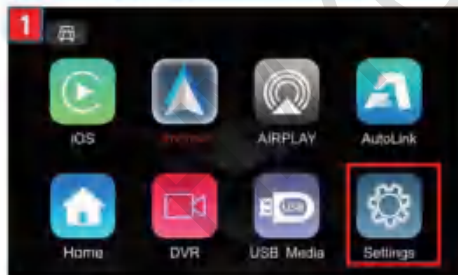
CarPlay Home screen

## Chapter #3.Settings (Version Info: Optional)



Version information may vary depending on product and vehicle model.

## Chapter #3.Settings (Factory mode:Optional)



0 3 0 1 Input

Do not arbitrarily change the values set in Factory Mode.

### Chapter #3. When Siri sound is low (iPhone only)



Press ① the voice recognition button on your iPhone.

Then, the voice recognition indicator as shown in number ② will appear on the CarPlay screen.

And a voice guidance sound will be heard.

Then press the ③ volume up button on your phone.



By default, the SIRI volume is slightly lower than the music volume.

## COMMON PROBLEMS AND TROUBLESHOOTING

### **1.The original car screen displays "NO SIGNAL"**

1. Check whether the LVDS cable connection is correct and rule out issues with poor LVDS contact.
2. The LVDS cable should not be directly connected to the host's cable; it should be connected to the car screen's cable. The original car's two fiber optic cables need to be transferred to the power cable of our accessory.
3. If the above issues are still not resolved, check whether the decoder dip switch settings are correct.

### **2.The original car display is normal and the knob operation is normal, but after installing the decoder, there is a black screen or NO SIGNAL.**

Please check whether the decoder dial is set correctly.

### **3. The original car sound is normal, but there is no sound from CarPlay.**

The CarPlay sound channel is set to the original car AUX or USB AUX (sound card).

### **4. There is an echo during a phone call (outside the car)**

Resolve it by selecting the echo cancellation method in the settings.

### **5. No sound for CarPlay music or calls in the car**

Select the car's original Bluetooth audio as the audio source on the mobile device

**6.After connecting to CarPlay, the screen displays a black screen, but the sound is normal.**

Turn off the phone's WiFi and Bluetooth, and check if the screen interface can display normally. If the issue is not resolved, turn the car's original knob to the right for 15 seconds to restart the CarPlay system.

**7.CarPlay playback music stuttering or navigation not refreshing.**

Please check whether the network on the phone side is normal and whether the decoder antenna is tightened(The antenna should not be stuck to metal materials)

**8. CarPlay cannot connect automatically.**

Please check if Bluetooth and Wi-Fi on the phone are turned on. If they are already on, click iOS icon again to reconnect.

**9. CarPlay Siri not working.**

Please check if the SIRI function is enabled on the mobile device.

Please check if the audio MIC is set to the original car.

**10.The original vehicle's mileage fuel consumption is not displayed**

Please check whether the original vehicle's electric terminal optical fiber is connected, it needs to be plugged into our power line male connector.

### **11.What is the password for the decoder WiFi?**

Do not connect to the decoder WiFi. The connection will be done automatically on the background when connecting to the decoder Bluetooth. There is no need to setup the WiFi, just leave the WiFi ON from your phone.

### **12.Can I connect my phone wirelessly and with cable at same time? Or connect 2 devices?**

Not recommended. Once you are setup wirelessly it is not recommended to connect it with the decoder USB, it will mix connections and does not support 2 devices at same time.

### **13.Should I disable radio head unit Bluetooth?**

No, the factory radio Bluetooth is necessary for correct function of the decoder.

### **14.Sometimes the audio is lost. How do I check the issue?**

Please check your phone audio is set to CarPlay/Android Auto. Some phones may change the audio source if there are other Bluetooth devices trying to interact at the same time. Check that your radio head unit Bluetooth is disabled.

### **15.Is it possible to upgrade decoder firmware, if there is a new version?**

Yes, updates are done using the USB cable. Whenever there is an update we will notify all customers and send the new firmware with the update instructions.

### **16.Is this decoder compatible with the aftermarket 360 camera system/Bird Eyeview Camera in my car?**

Uncertain, due to a conflict between the retrofit 360 system and the installation of this CarPlay decoder, we believe that these two devices cannot work together in your car. However, our decoder supports the original factory 360 system as well as the reverse camera.

If the user has already installed an aftermarket camera or 360 camera, they must remove the aftermarket camera encoder, and then connect the added camera to the power line of our decoder (draw power from the blue wire).

#### **17.What type of vehicle needs to be equipped with MIC?**

If the original car does not have Bluetooth calling or cannot play songs, then the MIC in the accessories will need to be installed when installing the decoder.

#### **18. Why can't my Android phone connect to this device's Android Auto?**

First, confirm whether your phone supports Android Auto and whether the latest Android Auto app has been downloaded. Some Android phones do not support Android Auto. You can test with some iPhone devices to check CarPlay and further test whether the installation is correct.

#### **19.After installation, the original car knob cannot connect to the system, and the knob does not function properly.**

1. Please first check whether the DIP switch settings are correct.
2. Please check if there are any unconnected wires in the original car's wiring harness.

Scan the QR code to watch a video on how to install the decoder to your head unit radio



Please read the provided manual FAQs  
or contact us if any questions.  
[support@hmyc-tech.com](mailto:support@hmyc-tech.com)

## **FCC Statement**

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.