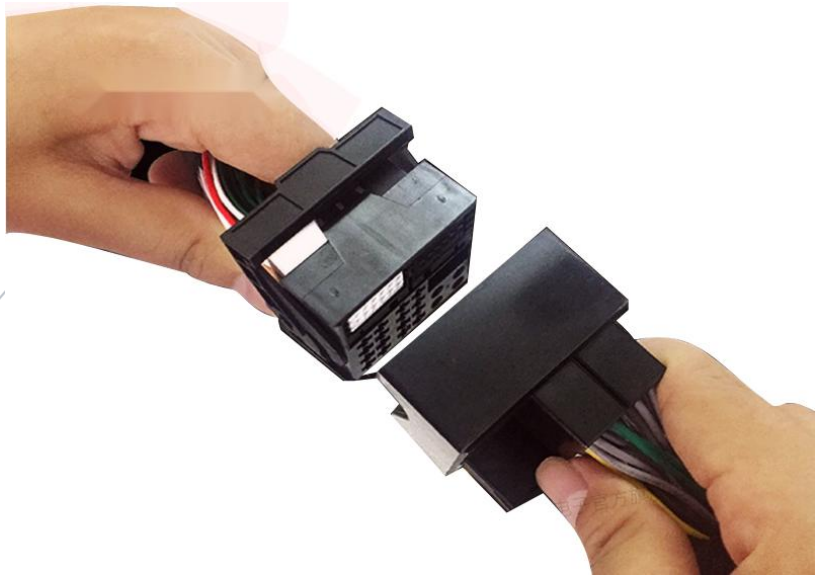
Road Top

For BMW And MINI CIC

Cable Connection



Road Top Co., Ltd

Contents

1. Toggle Switch Setup 1
2. Dashboard Removal 5
3. Cables Connection 6
    - 3.1. Cable Accessories 6
    - 3.2. Cable Connection Chart 7
    - 3.3. Power Cable Connection 8
    - 3.4. LVDS Cable Connection 10
    - 3.5. iDrve CAN Cable Connection 12
    - 3.6. WiFi Antenna and USB-AV Cable Connection 14
    - 3.7. Microphone Cable Connection 15
    - 3.8. Where To Put The Decoder Box 19
    - 3.9. Problem about red screen, black screen, half-screen, flash screen 20
4. Sound Setup 21
5. Reverse Camera and Front Camera 25
    - 5.1. Original Camera Setting 25
    - 5.2. After Market Reverse Camera Cable Connection 25
    - 5.3. After Market Front Camera Cable Connection 26
    - 5.4. After Market Reverse Camera and Front Camera Setting 26
6. FAQ 27
7. Contact US 29

1. Toggle Switch Setup

1.1 Choose the toggle switch setup by the size of your car's screen

Car Model	6.5 inch screen	8.8 & 10.2 inch screen
1 Series		
5 & 7 Series		
3 & 5 Series		
6 Series		

X1		
X3		
X5/X6		
Z4		

MINI CIC		

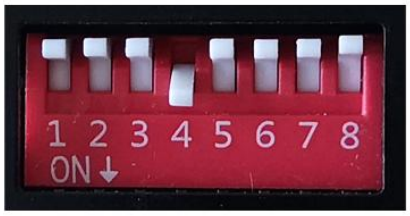
1.2 Where to find the toggle switch?



1.3 Choose the toggle switch setup by the size of your car's screen.

for 6.5 inch screen

dial setup 1



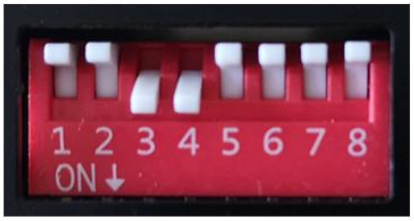
Smart Link System



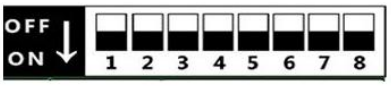
	1	2	3	4	5	6	7	8
Off	✓	✓	✓		✓	✓	✓	✓
On				✓				

for 8.8 / 10.2 inch screen

dial setup 1



Smart Link System



	1	2	3	4	5	6	7	8
Off	✓	✓			✓	✓	✓	✓
On			✓	✓				

2. Dashboard Removal

Please scan QR code, view the detail via YouTube video on dashboard removal guidance.

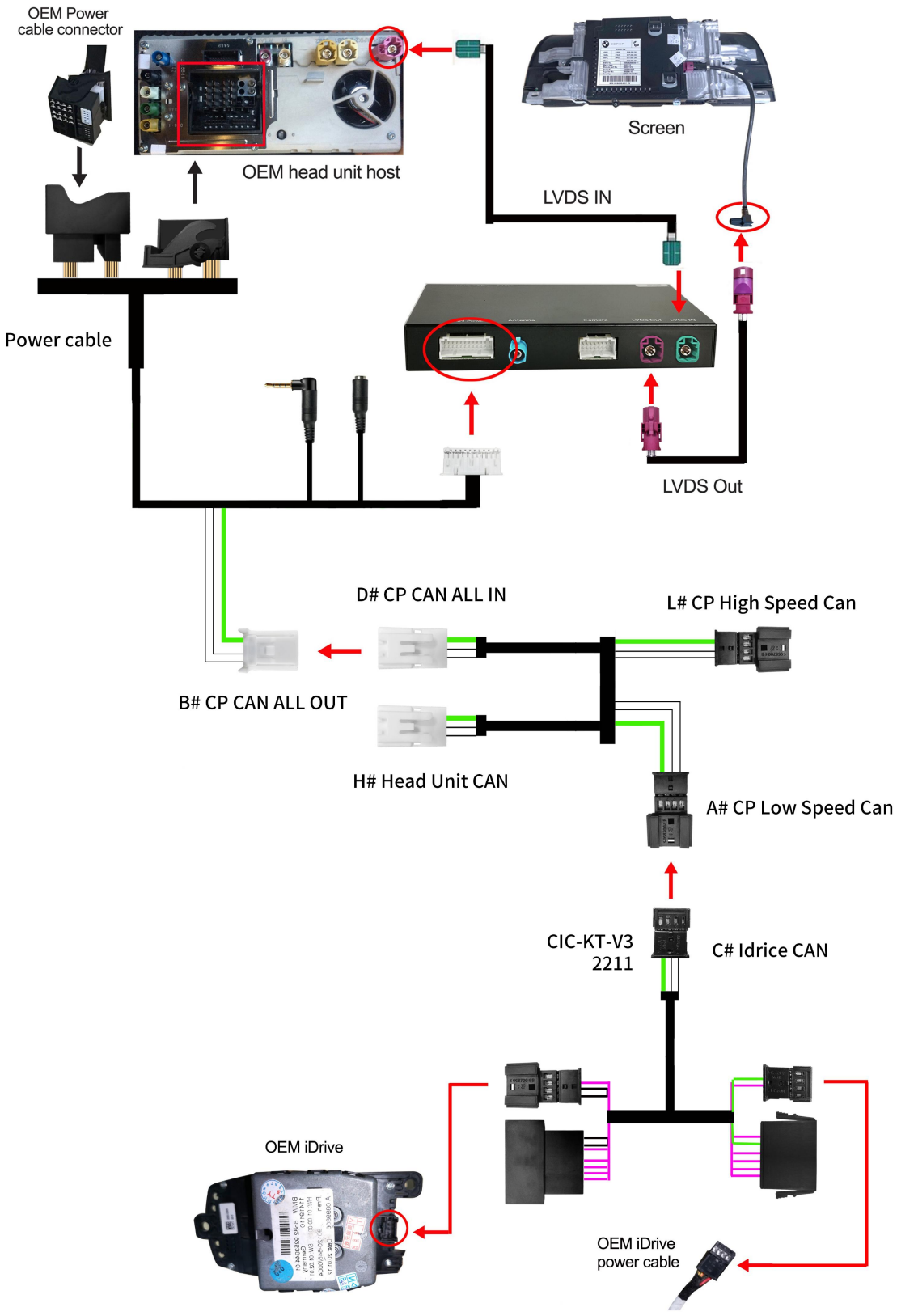
For 3 & 5 & 7 Series	For Series 1/3/6	For X1 X3 X5 X6
For MINI		

3. Cables Connection

3.1 Cables accessories

 CarPlay decoder box	 Power cable harness	
 LVDS cable	 WiFi antenna	 USB-AV cable
 iDrive CAN cable	 Aftermarket Mic	 original Mic extend cable

3.2 Cable connection chart



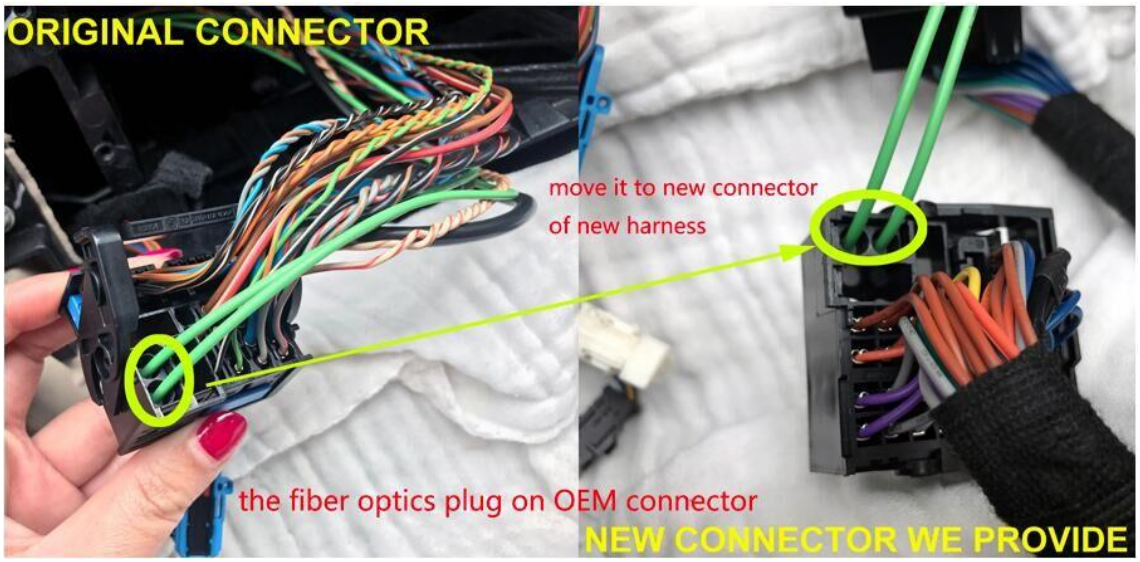
After cable connection, by long press “MENU” or “BACK” button from iDrive knob, you can switch the system between the original CIC system and the CarPlay system.

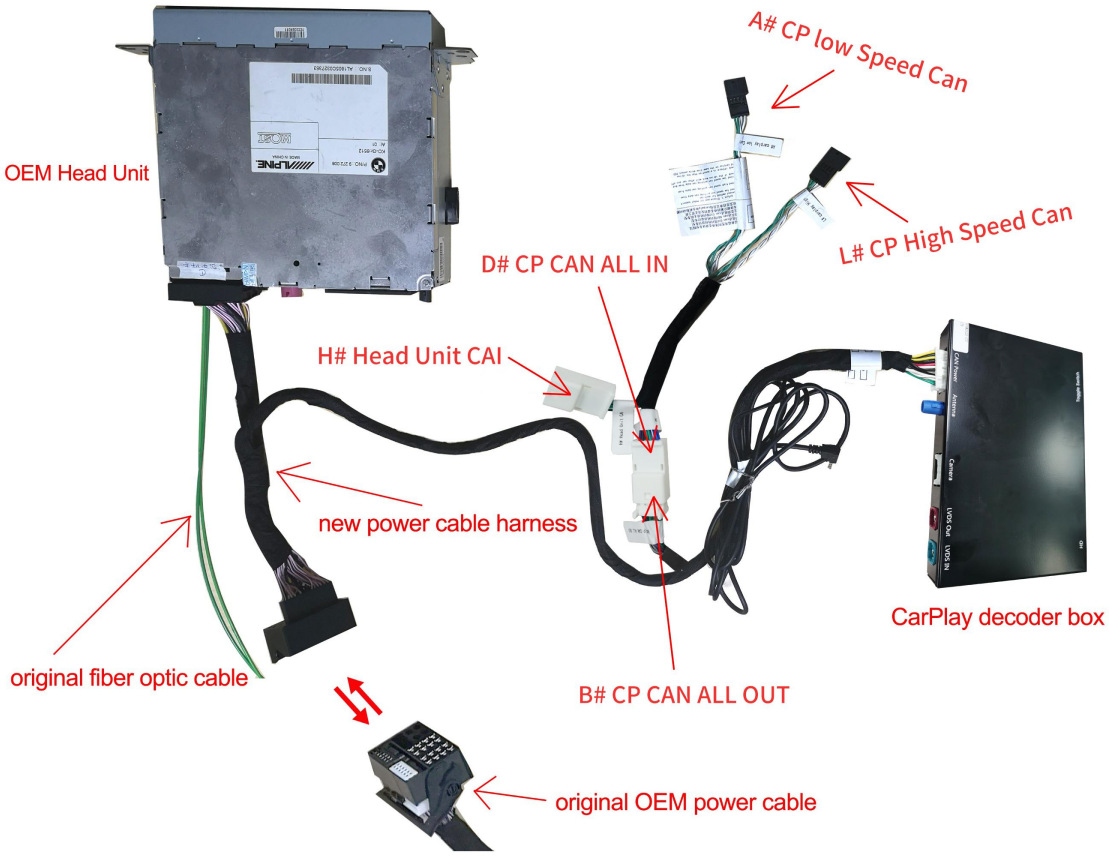


3.3 Power cable connection

1) Connect the new cable harness to the OEM original power cable and the head unit.

2) If your car has fiber optic cable, you need to move the original fiber optic cable to the new harness.



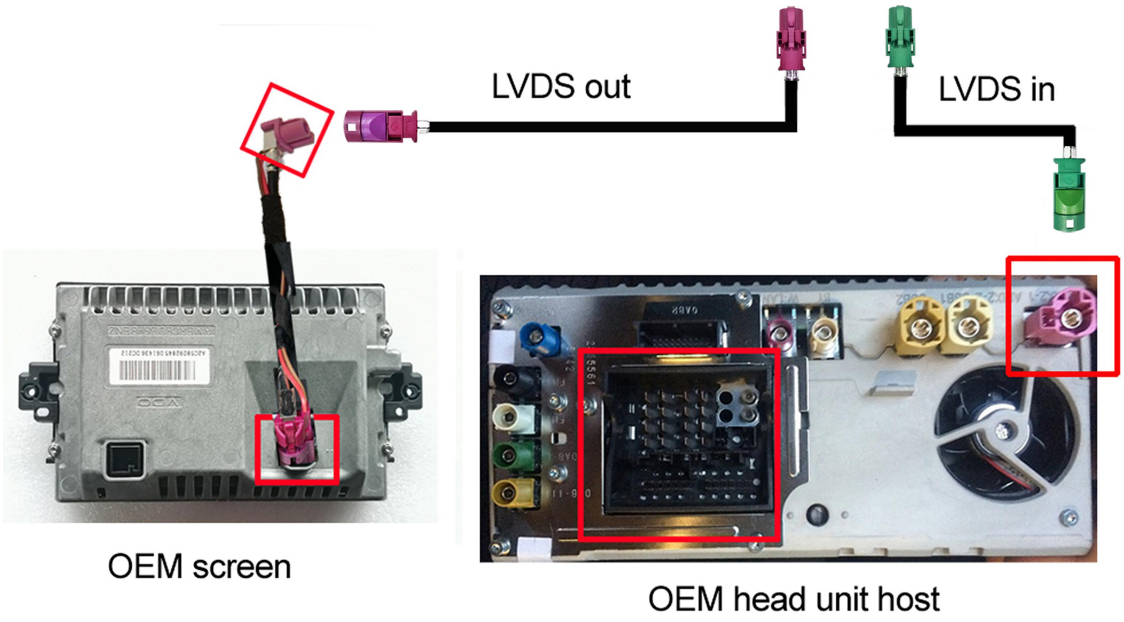

A# CP low Speed Can
OEM Head Unit
L# CP High Speed Can
D# CP CAN ALL IN
H# Head Unit CAI
new power cable harness
CarPlay decoder box
original fiber optic cable
B# CP CAN ALL OUT
original OEM power cable

3.4 LVDS cable connection

1) New LVDS cable (LVDS-CIC) connect to the head unit and “LVDS IN” of the CarPlay box.
2) New LVDS cable (LVDS-OUT-CIC) connect to original LVDS cable and the “LVDS OUT” of the CarPlay box.

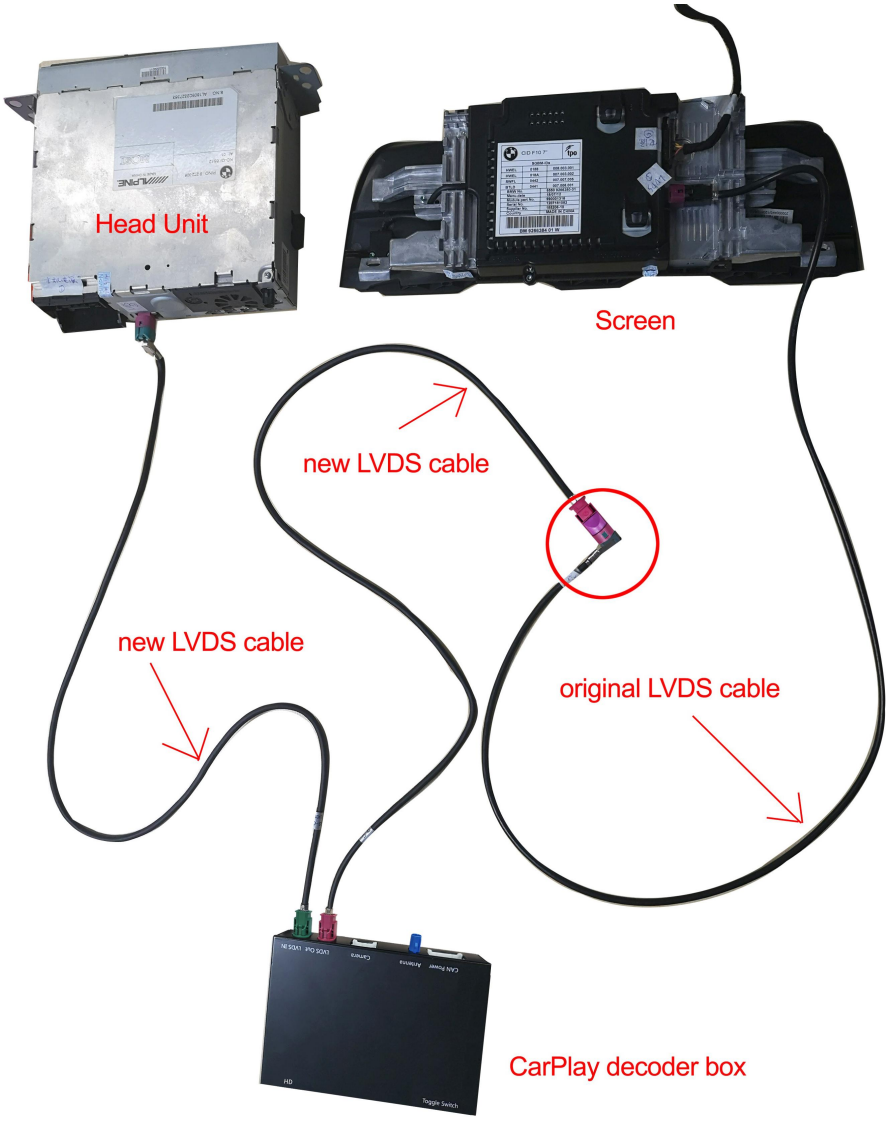
Note : Wrong LVDS cables connections will cause black or red screen.





OEM screen

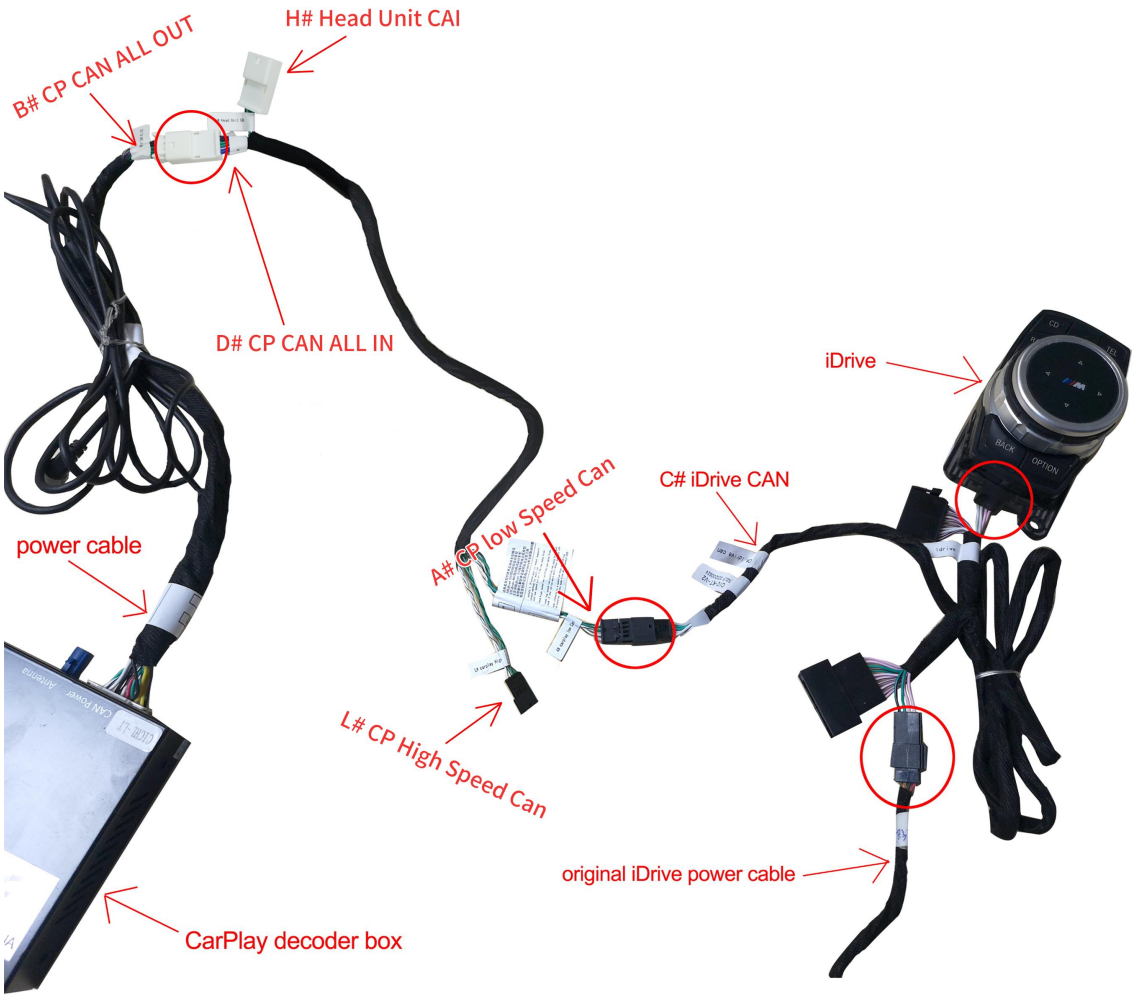
OEM head unit host

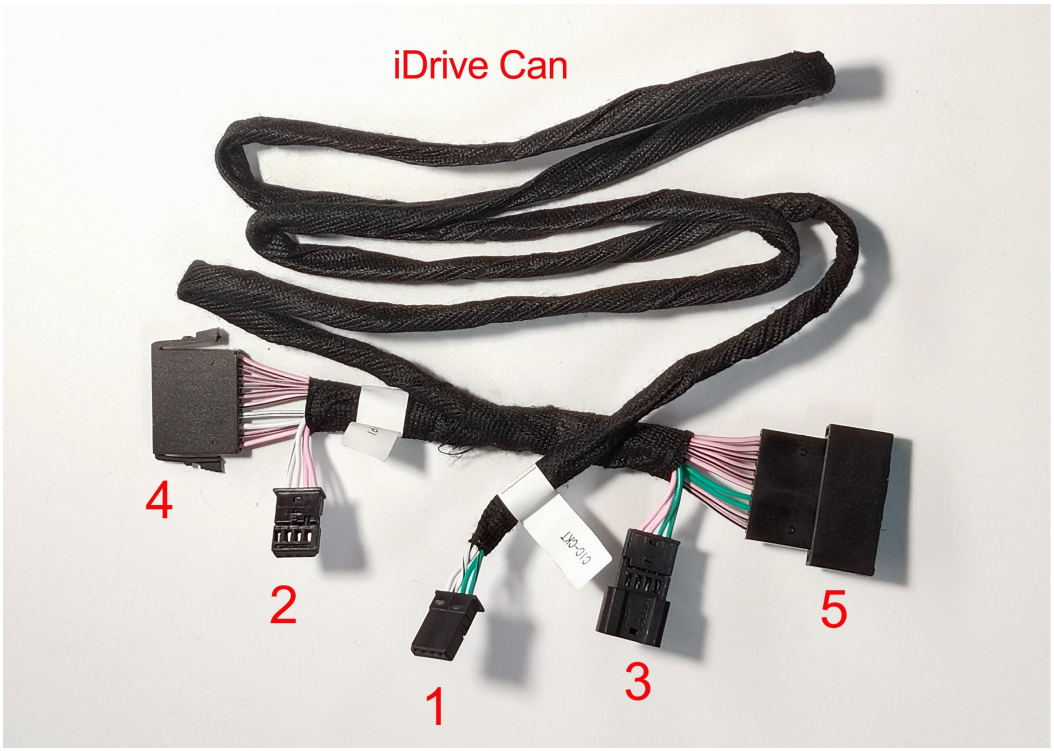

Head Unit
Screen
new LVDS cable
new LVDS cable
original LVDS cable
CarPlay decoder box

3.5 iDrive CAN cable connection

1) B# Carpy laCAN All OUT connect to D# CP CAN ALL IN
2) A# CP low Speed Can connect to C# iDrive CAN
3) Unplug the original idrive power cable from the iand reconnect it to the new idrive CAN harness. Then plug the new cable into the idrive.

Note : Wrong idrive CAN cable connections will cause red screen.





Number 4 and 5 connectors are for the big iDrive
Number 2 and 3 connectors are for the small iDrive and MINI IDrive



small iDrive

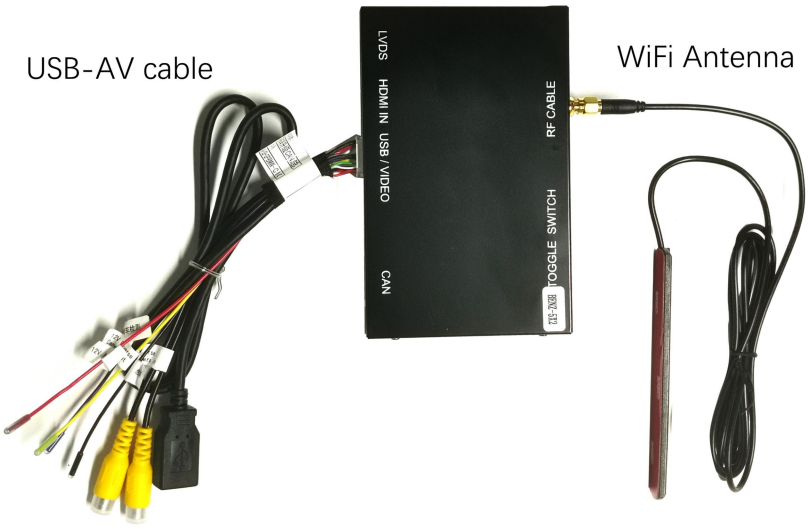


big iDrive



MINI iDrive

3.6 WiFi antenna and USB-AV cable connection



Tip :

A） The WiFi antenna cannot be placed close to metal objects.

(The WiFi signal will lost if WiFi antenna is close to the metal objects.)

B) The USB port in the USB-AV cable is used for software updates.



3.7 Microphone cable connection

3.7.1 for Cars with original Microphone

If your car is with original Microphone function, you need to use our Microphone extend cable and connect it to your car original Microphone.





number 2: connect to the female plug of OEM Mic

number 3: connect to OEM Mic male cable

number 4: No connection

number 5: No connection



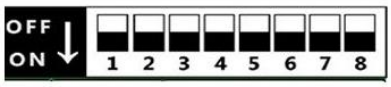
Please scan the QR code, directly enter into YouTube video demo on how to connect the Microphone extend cable to the factory OEM Microphone.

3.7.2 for Cars without original OEM Microphone

If your car doesn't have factory Mic, you can use the aftermarket Mic. But the code NO.7 of toggle switch need to be set as "on" status.

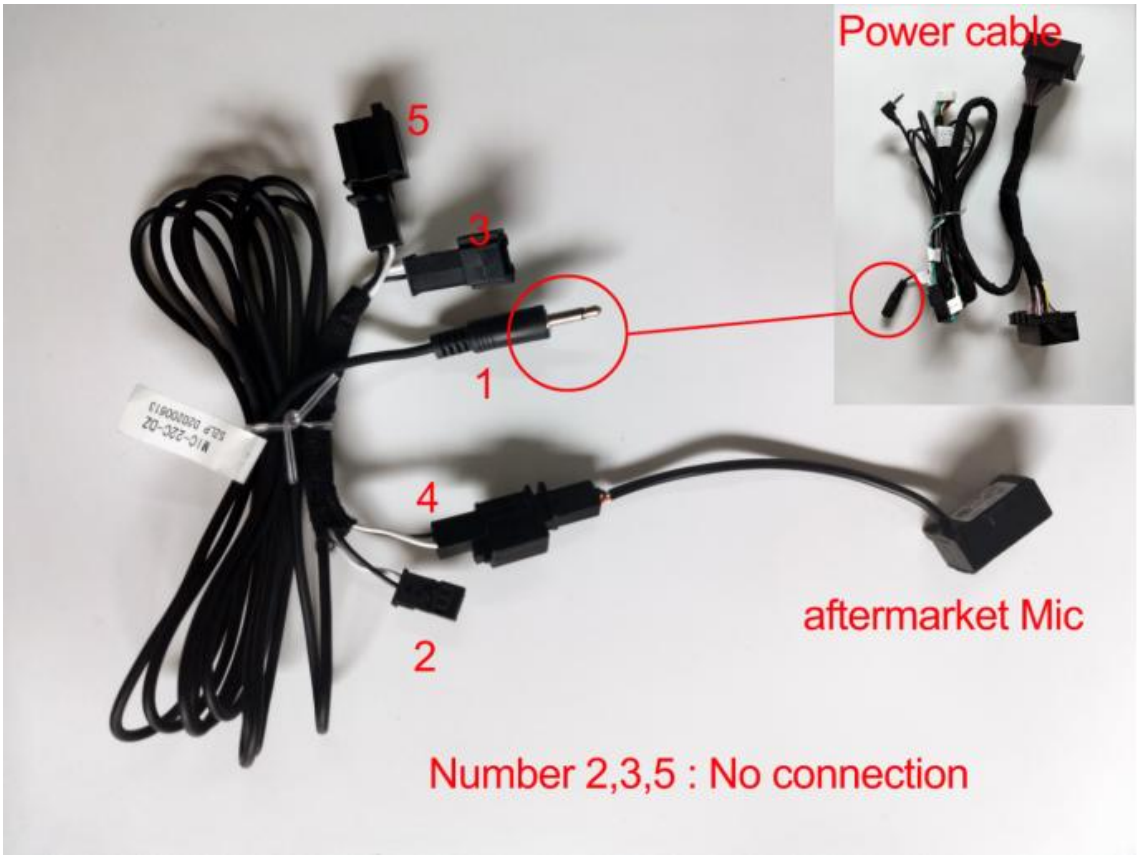


Smart Link System



	1	2	3	4	5	6	7	8
Off	✓	✓	✓	✓	✓	✓		✓
On							✓	

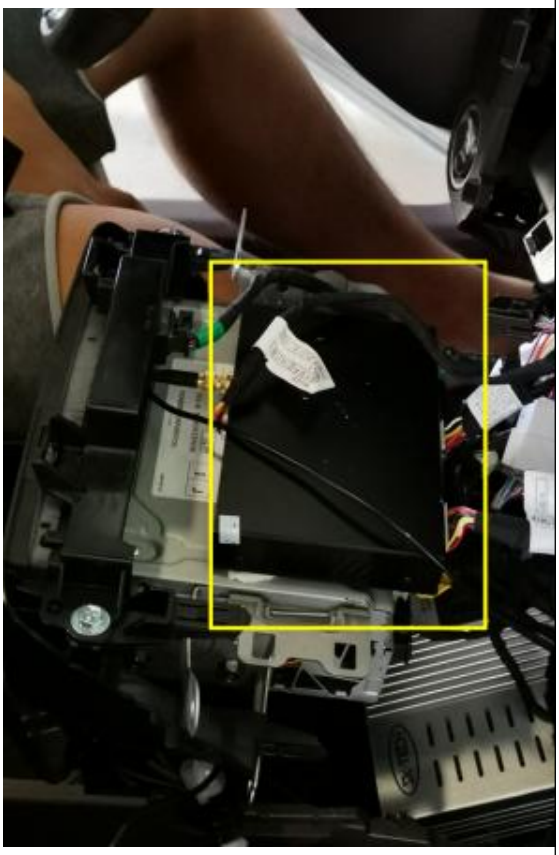
Tip: when change the toggle switch setup, you need to restart the car engine



Aftermarket mic should be installed close to the driver position.



3.8 The CarPlay interface decoder box should be put behind the head unit host or on the OEM head unit.

on the OEM head unit	Beside the OEM head unit
	
In the glove box box	In the glove box box
	

3.9 Problem about red screen, black screen, half-screen, flash screen

Please contact us for the correct toggle switch setup code and the correct lvds and iDrive CAN cable connection if you meet problems as in the follow chart

Red screen	Black screen
	
Half-screen	
	
Flash screen	
	

4 CarPlay Decoder Sound Setup

4.1 Disconnect the Bluetooth between your phone and your car.

4.2 Before set the sound, you need to connect the decoder's EXT-AUX cable to your car AUX port.



4.3 Set AUX

Before using the CarPlay system, you need to set AUX, the CarPlay system will have sound.

1) Enter into the “Multimedia“ interface， click “External devices”



2) Click the “AUX front”



3) Keep original NBT system into “AUX front”

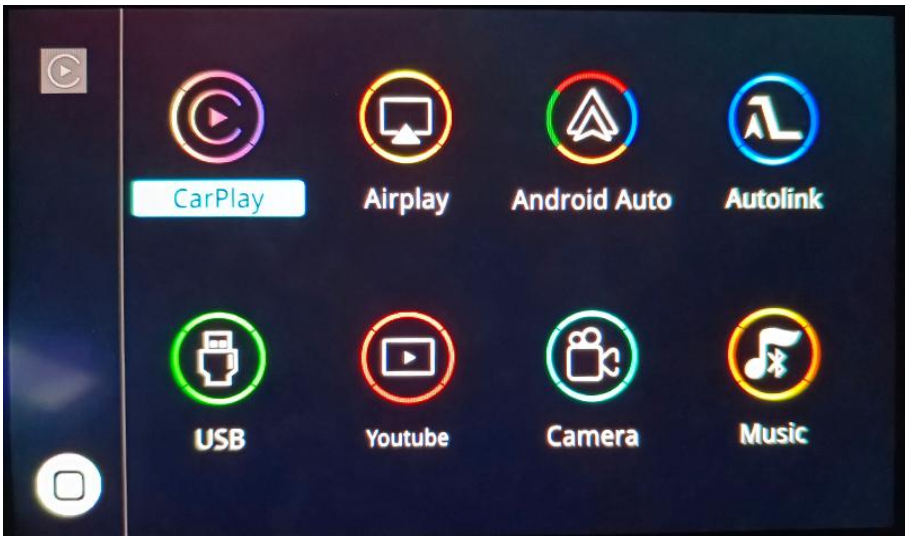


4) Long press “MENU” or “BACK” button from iDrive knob to switch into the decoder menu.



Please scan the QR code, view the detail via our YouTube video on sound setting guidance.

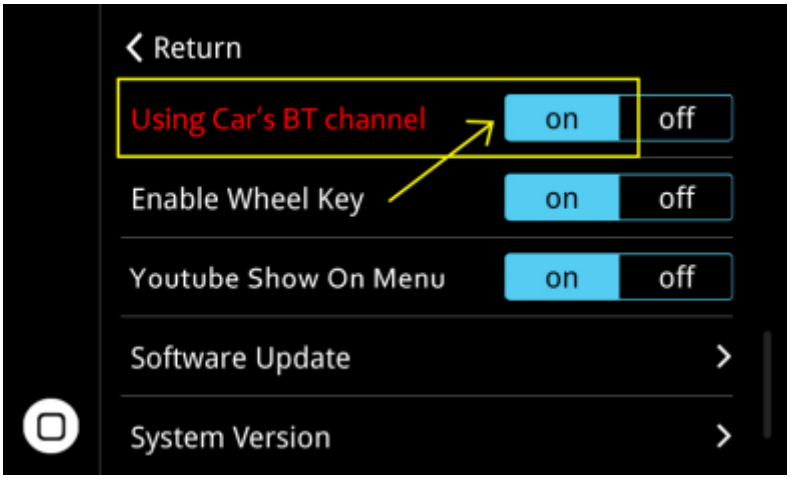
CarPlay Decoder main interface

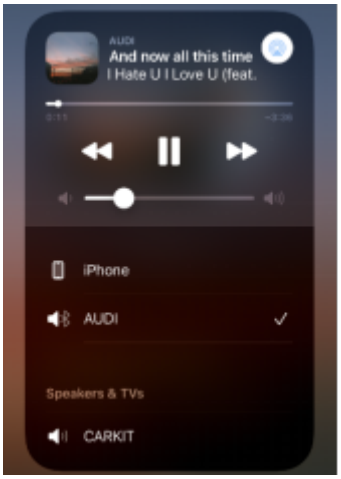


4.4 Set Bluetooth

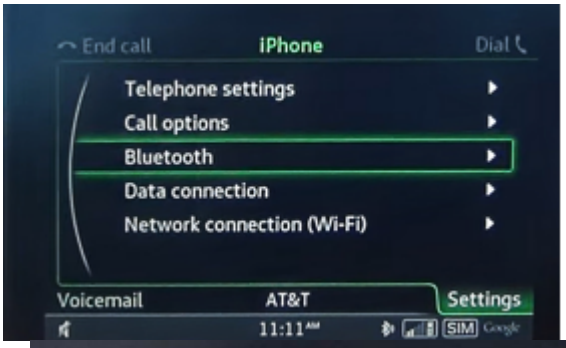
Turn on the setting of " use car's BT channel" and let the phone connect the Original Bluetooth.

Note: For Airplay and autolink function, need turn off the setting of "using car's BT channel" and choose Aux to transfer the sound!

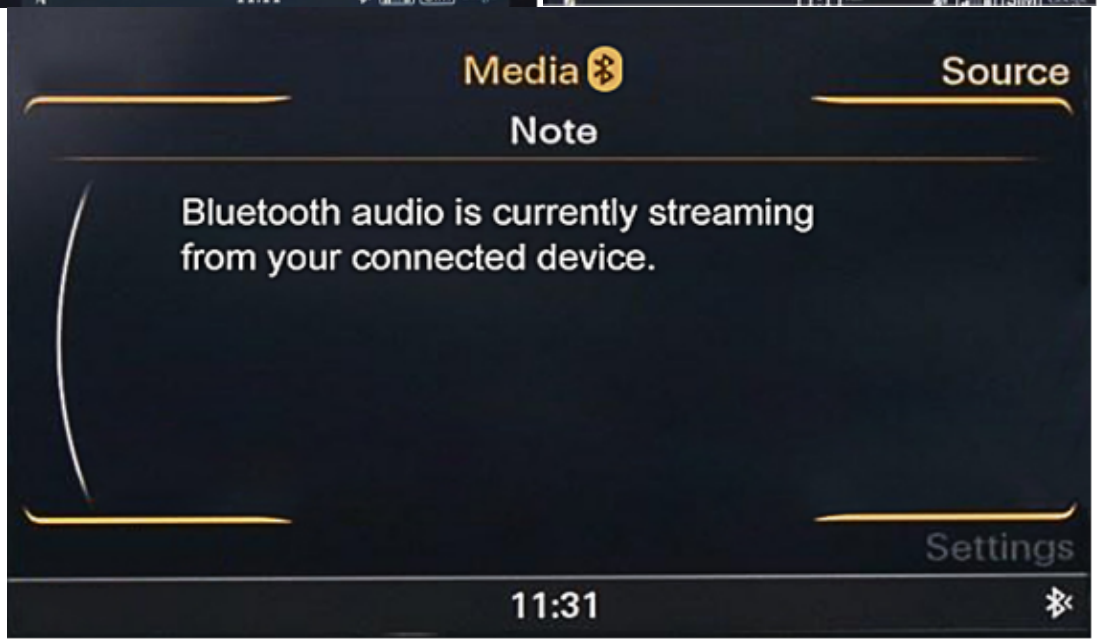




On the original BMW System, navigate to the "Media" interface, click the "Bluetooth", keep the "Bluetooth audio player" ON





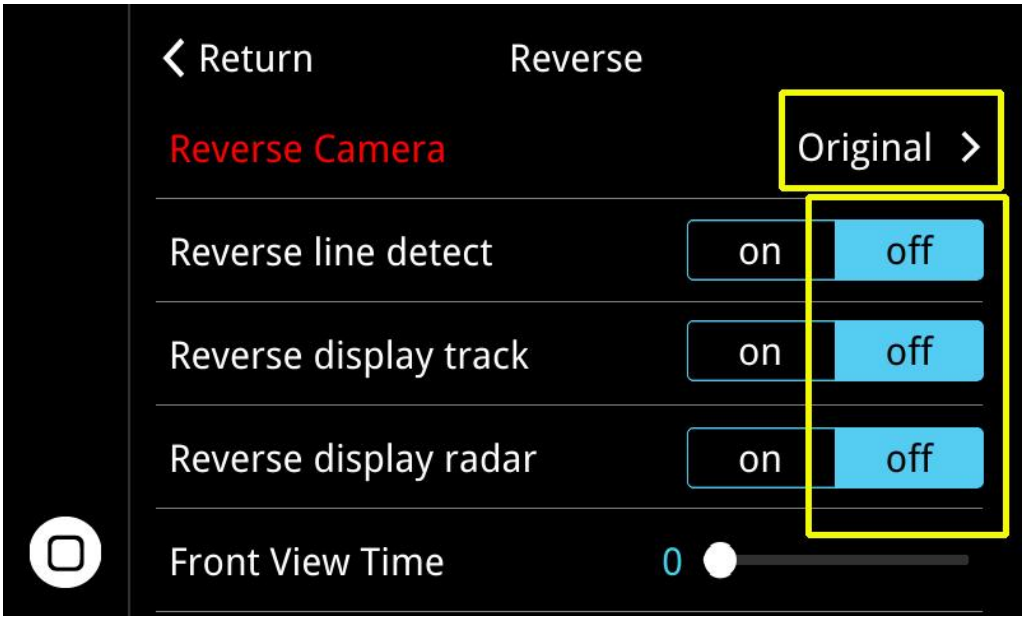


5 Reverse Camera and Front Camera

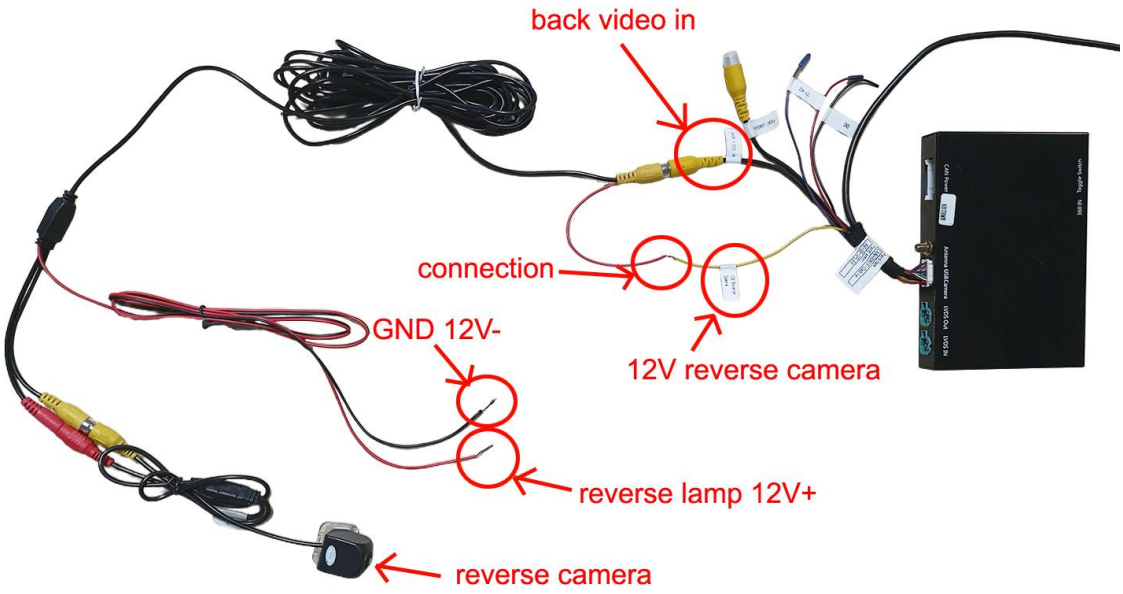
5.1 Original camera setting

Original OEM rear view camera function setting: click the “Setting” button from the decoder main menu, choose “Reverse”, then set the reverse camera into “Original”.

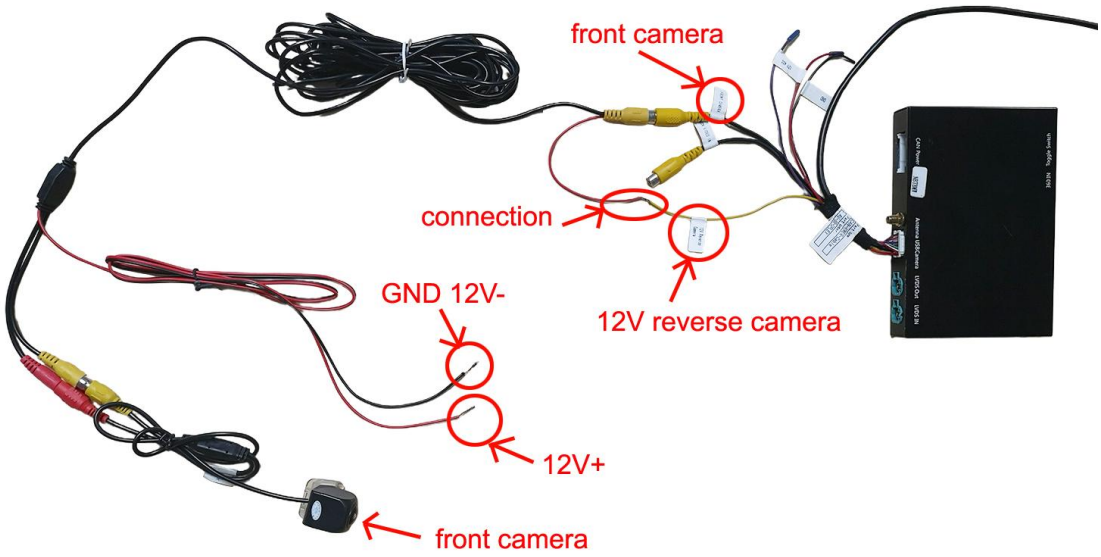
the “Reverse line detect”, the “Reverse display track” and the “Reverse display radar” are set to “off”.



5.2 Aftermarket rear view camera cable connection



5.3 Aftermarket front view camera cable connection



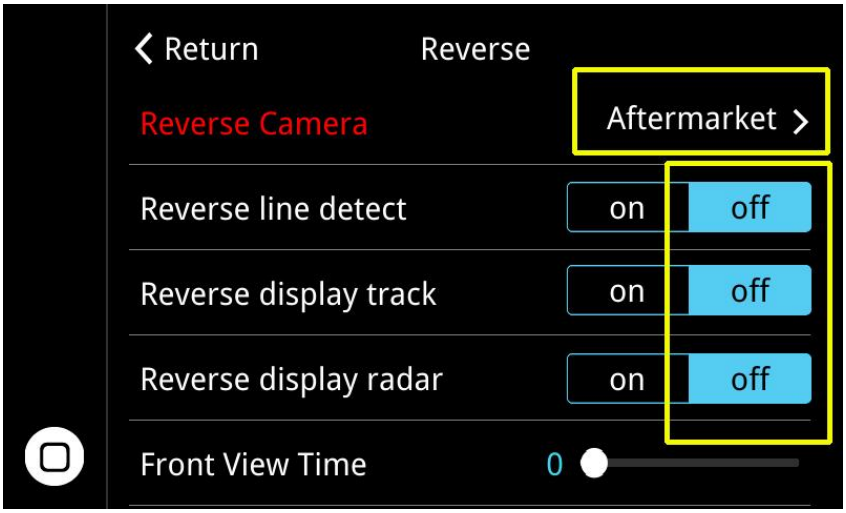
5.4 Setting for aftermarket reverse camera and front camera

After finishing the aftermarket camera cables connection, you need to set the camera.

Rear view camera setting: click the “Setting” button from the decoder main menu, choose “Reverse”, then set the reverse camera into “Aftermarket”.

the “Reverse line detect”, the “Reverse display track” and the “Reverse display radar” are set to “off”.

Front view camera setting: click the “Setting” button from the decoder main menu, choose “Reverse”, then set the front view time between 1 to 15 seconds.



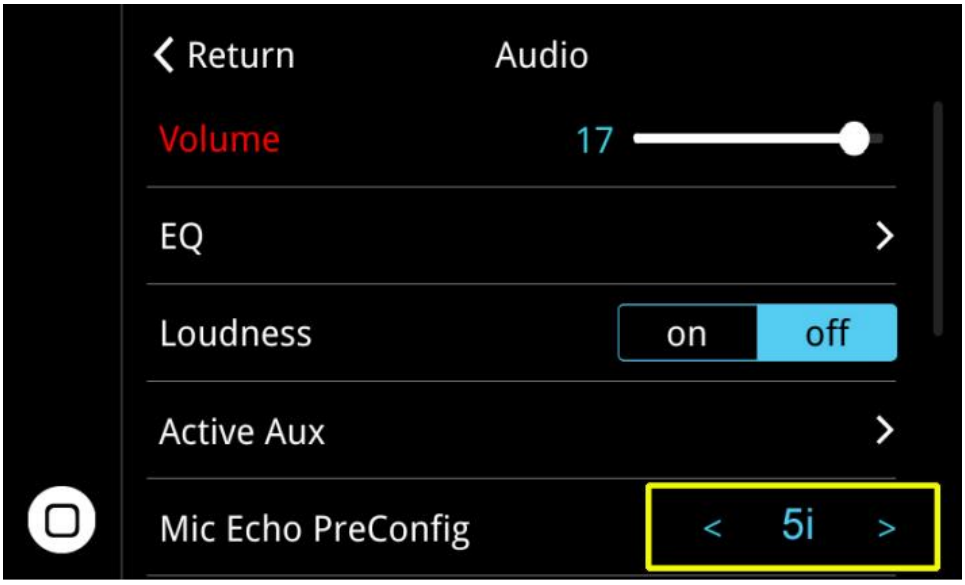
6 FAQ

Questions 1: No sound during the call

Solution: Disconnect the Bluetooth between your phone and your car.

Questions 2: Echo sound during the call

Solution: in the Audio setting, set the “Mic Echo PreConfig“ into “5i”, then restart the engine.



Questions 3: Siri function activation

Solution: two ways to active the Siri function

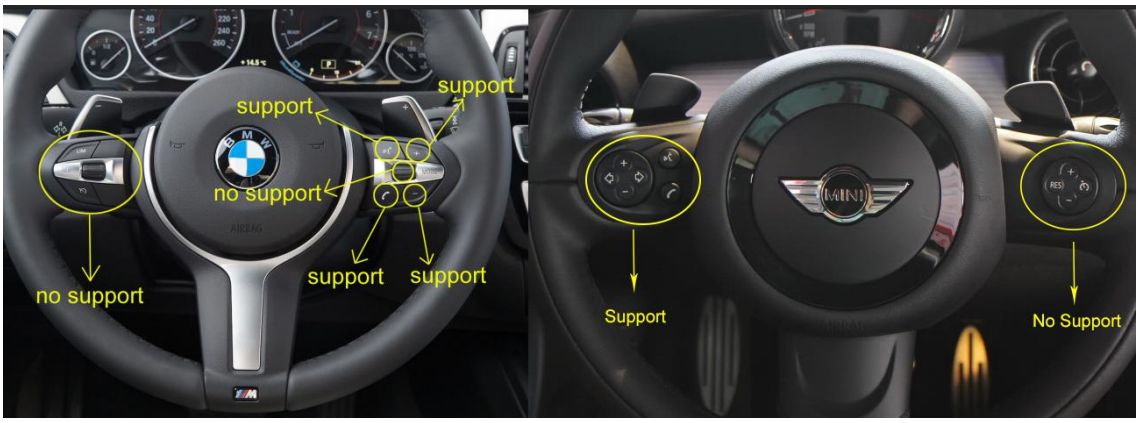
a) Use voice control button from steering wheel control
b) Long press confirm button from iDrive



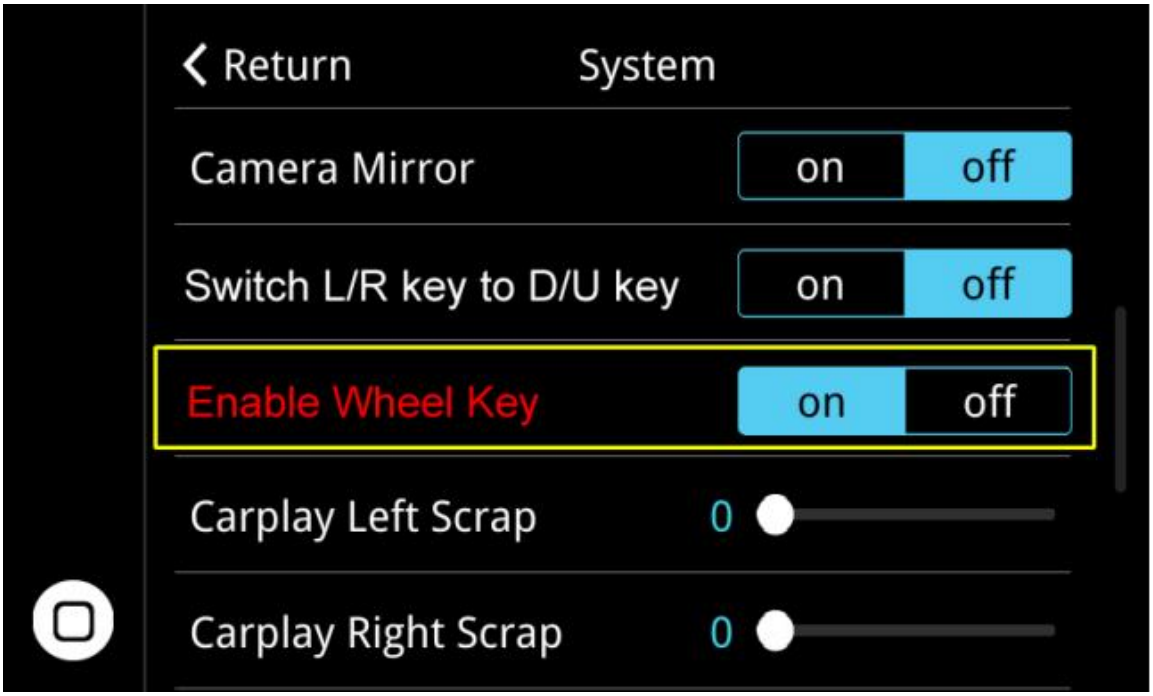


Questions 4: steering wheel control buttons

Solution: for the steering wheel control buttons, the CarPlay interface decoder box support voice control button, Tel button, voice "+" and "-" buttons, the other buttons are not supported.



If the steering wheel control buttons (voice control button, Tel button, voice "+" and "-" buttons) don't work, you need to set " Enable Wheel Key" into "On" in the setting.



7 Contact Us



Please contact us via purchase platform or the WhatsApp if you need any help.

Tip:
before contacting us, please help us to collect the following information.

1. the order ID
2. the car model
3. the year of the car
4. screen size of the car
5. the toggle switch setup
6. pictures about the LVDS cable connection
7. the software version (in the CarPlay decoder menu, enter into the “Setting”, choose the “System Version”, you will see the software version.)

