User Manual

NBT Carplay MMI BOX

Apple CarPlay

Android AUTO

Specifications

Input	USB/CVBS signal input
Input Voltage	12-16V DC
Rated Current	2A
Rated Power	24W
Control	Voice / iDrive control
Material	Housing aluminum
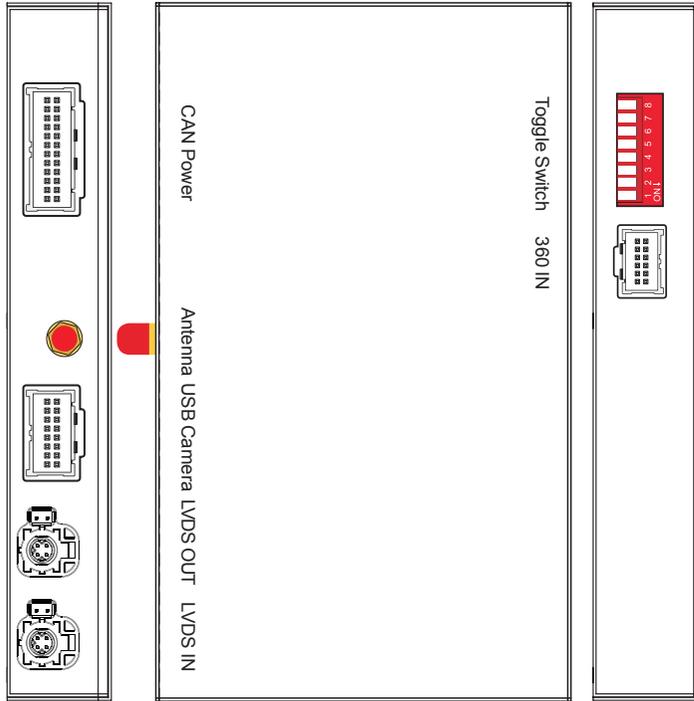
Panel description

CAN Power	For power cable connection, CAN data transmission
Antenna	Wifi antenna connector
USB Camera	USB data transmission, and for reverse/front camera conenction
LVDS OUT	Connect with cable labelled 'LVDS-GPBMW1901-NBT'
LVDS IN	Connect with OEM LVDS from the screen
Toggle switch	Refer DIP code setting to set for different screen size
360 IN	Exterior 360 input(VGA signal input)

Features

>Support wireless/wired Carplay connection

>Support wireless/wired Android auto function (some mobile phones)

>Support wireless Airplay function

>Support wired Autolink function

>Compatible with OEM microphone and external microphone

>Support EQ adjustment,lossless sound quality

>Support USB to play audio file &video, support firmware upgrade

>Keep the OEM system function, reversing radar and track display

Accessories

LVDS cable LVDS-NBT-C19

WIFI antenna

AV/USB cable AV-USB-GP68

CAN power cable CAN-NBT-C19

(Note:This cable isn't for bmw i3/i8, longer for i3/i8)

MIC adapter cable MIC-22C-DZ

Compatible car model

Series	Car model	Production year	Toggle switch
1	F20,F21	2012-2016	
2	F22	2014-2016	
3	F30/F31/F34	2013-2015	
4	F32/F33/F36	2014-2016	
5	F10/F11/F07	2013-2015	
6	F12/F13	2013-2016	
7	F01/F02	2013-2016	
X3	F25	2013-2016	
X4	F26	2014-2016	
X5	F15	2014-2016	
X6	F16	2015-2016	
MINI	F56	2014-2016	

OFF

ON
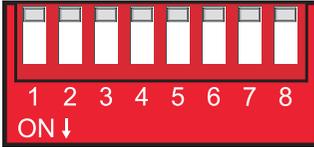
1 2 3 4 5 6 7 8
ON↓

1 : ↓   0 : ↑

6.5 inch:

11000000

8.8/10.25 inch:

11100000

NBT car system interface

Main menu   18:33   Capital
Multimedia
Radio
Telephone
Navigation
Office
ConnectedDrive
Vehicle information
Settings

NBT MINI

NBT i3/i8

主菜单   95 km
多媒体
收音机
电话
导航
联系人
互联驾驶   19.1 km
车辆信息   18.4 km/h
设置

Connection Diagram

Mic adapter cable, for conencting with OEM mic when OEM mic can't work or connecting with external mic when the car without mic

Connect to AUX port

Connect with the OEM lVDS port unplugged from the screen

Connect to the screen

Provided LVDS cable

MIC cable (Optional)

Reverse camera CVBS input

Front camera CVBS input

Reversing detection

Reverse camera power supply

Front camera power supply

Ground cable

WIFI antenna, Place it away from the metal place

USB port, for audio and video playback or system upgrade

Reverse camera wirng connection and settings

Automatic transmission

1. Connect the reverse camera to CVBS OUT labeled 'Reverse camera'

2. Connect the cable labeled '12V reverse camera(yellow)' to camera power

3. Setting → Reverse → Reverse camera → Aftermarket

‹ Return	Reverse		
Revers Camera			Aftermarket ›
Reverse line detect		on	off
Reverse display track		on	off
Reverse display radar		on	off
Front View Time		0	
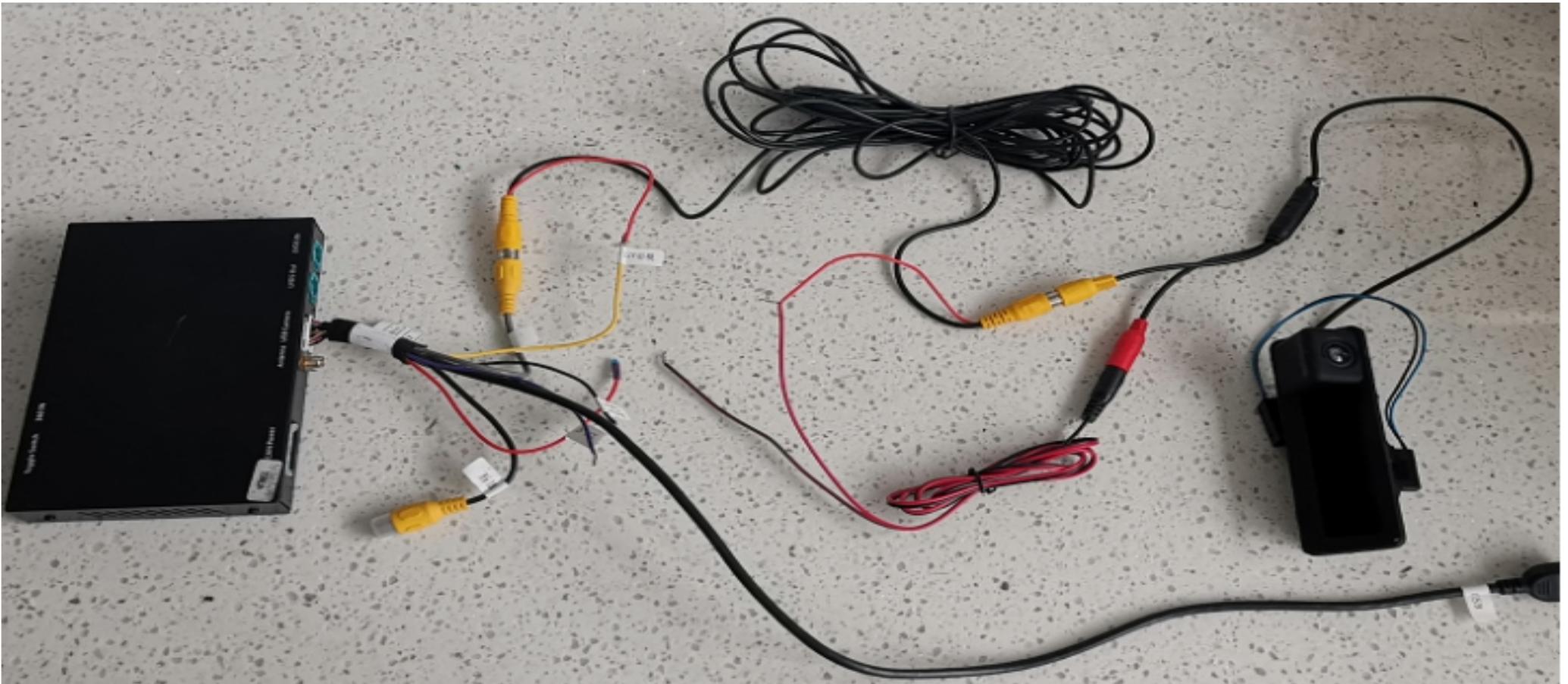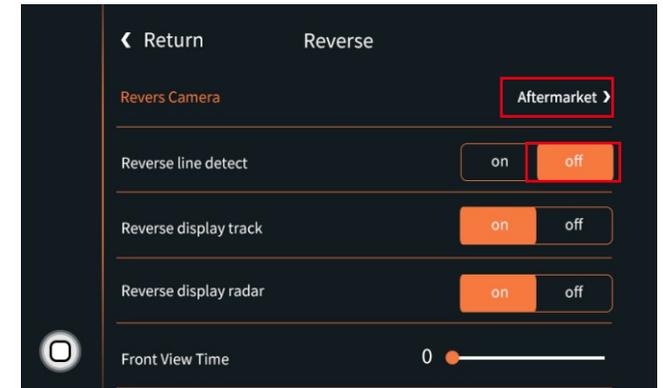
Munal transmission

1. Connect the reverse camera to CVBS OUT labeled 'Reverse camera'

2. Setting → Reverse → Reverse camera → Aftermarket

‹ Return   Reverse   **turn on**

Revers Camera — Original ›

Reverse line detect — on / off

Reverse display track — on / off

Reverse display radar — on / off

Front View Time — 0

Connect the cable labeled '12V reverse camera(yellow)' to camera power

Connect the reverse detection cable labelled 'Back(Purple)' to reverse lamp 12V
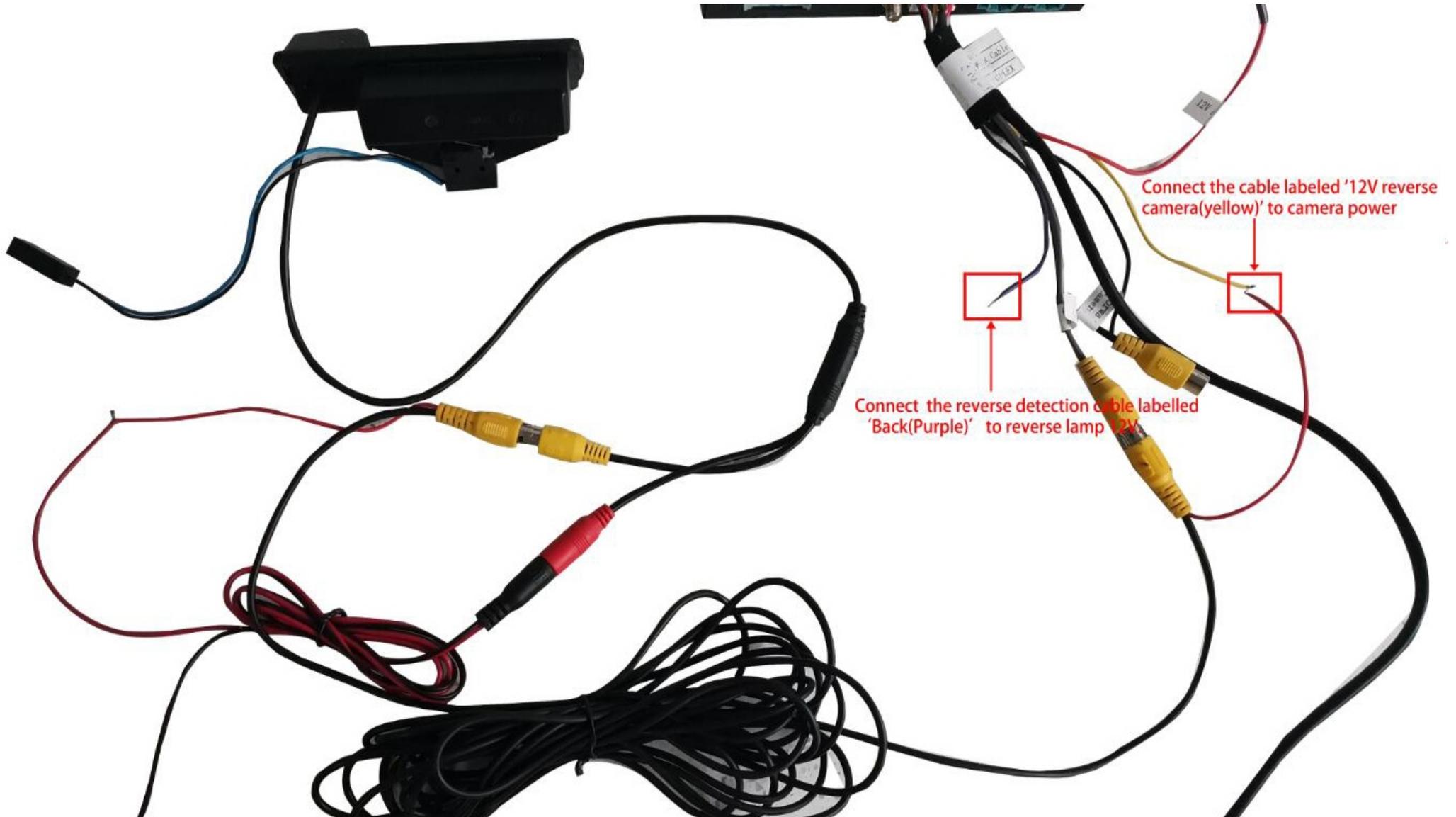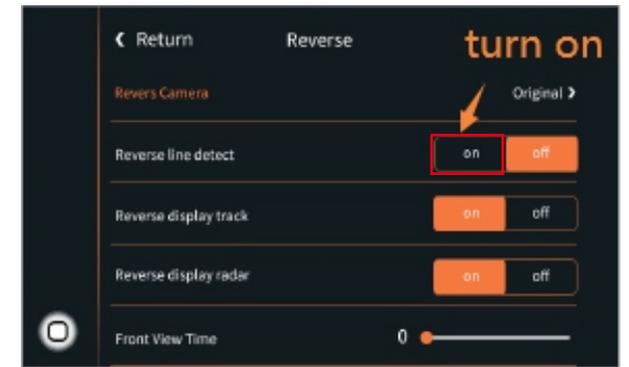
Wireless carplay connection

1. Turn on WIFI (Fig.1)

2. Turn on Bluetooth (Fig.2), and connect Carplay's bluetooth (Fig.3/4)

3. After the bluetooth connection is completed, the following prompts will pop up, click 'Allow-Use carplay' (Fig.5/6)
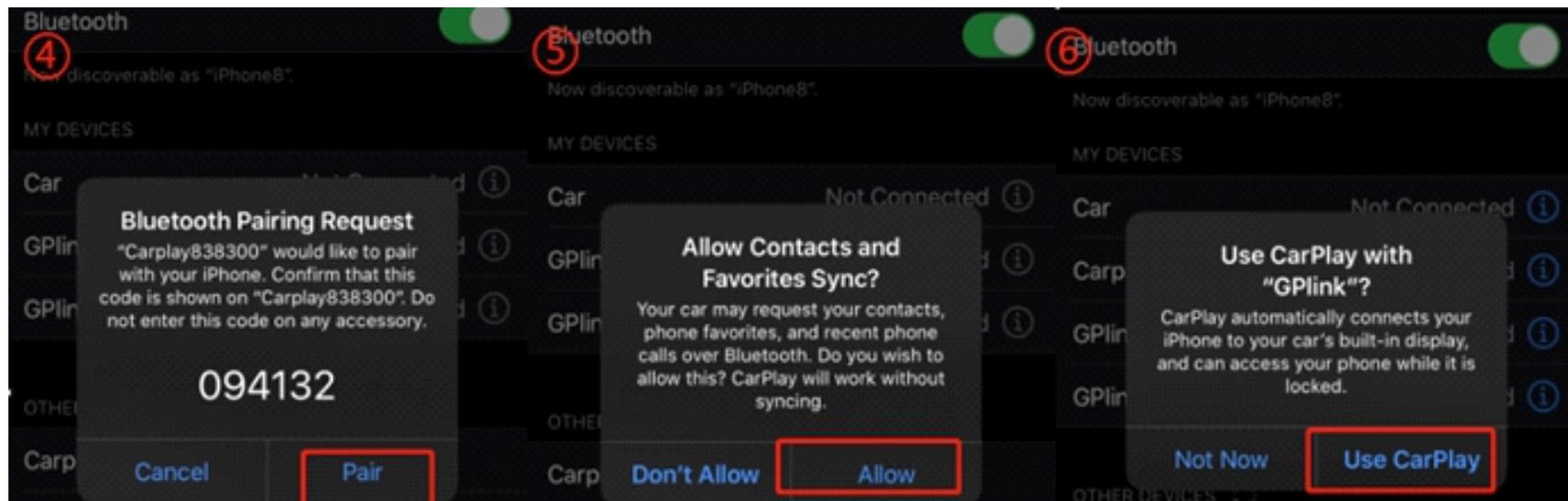
Wireless Android auto connection

1. Turn on WIFI (Fig.1)

2. Turn on Bluetooth (Fig.2)

3. Enter the Wireless Dev APP(Fig.3)

4. Search the bluetooth of phone(Fig.4 / 5 /6)

5. Choose any one of the options on the car end to pair(Fig.7)

6. The pairing request pops up on the phone, select 'pair' (Fig.8/9)
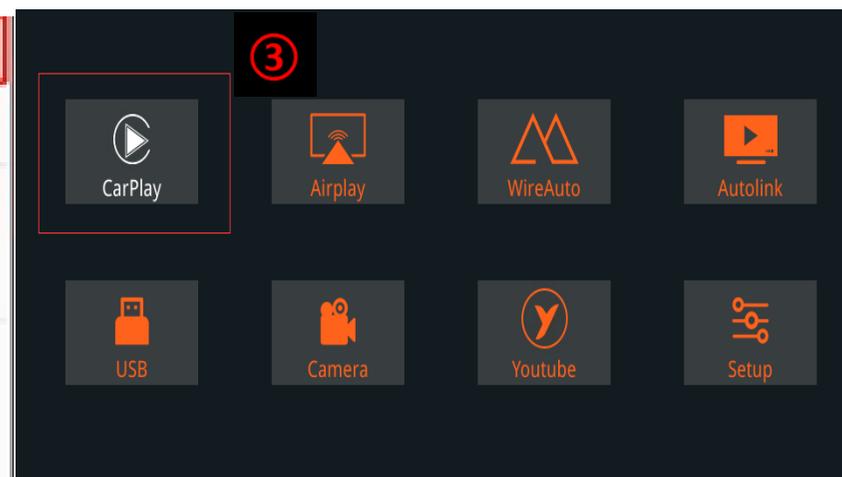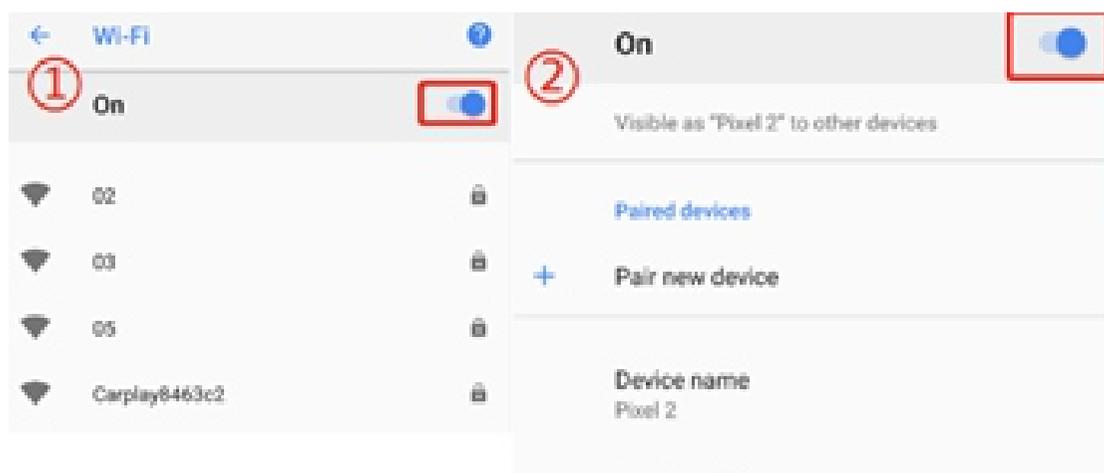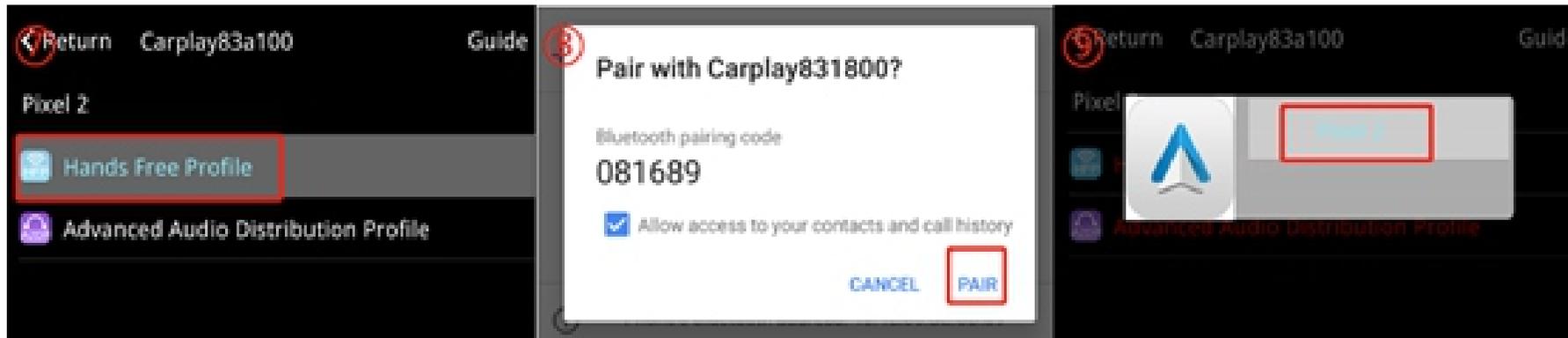
Wired Android auto connection

1. Download Android auto APP on Android phone(Fig.1).

2. Click 'WireAuto' icon(Fig.2), the prompt 'Please connect your Android device' will pop up(Fig.3).

3. Plug your phone to USB port. then it will enter Android auto automatically(Fig.4).

Plug the phone to USB port
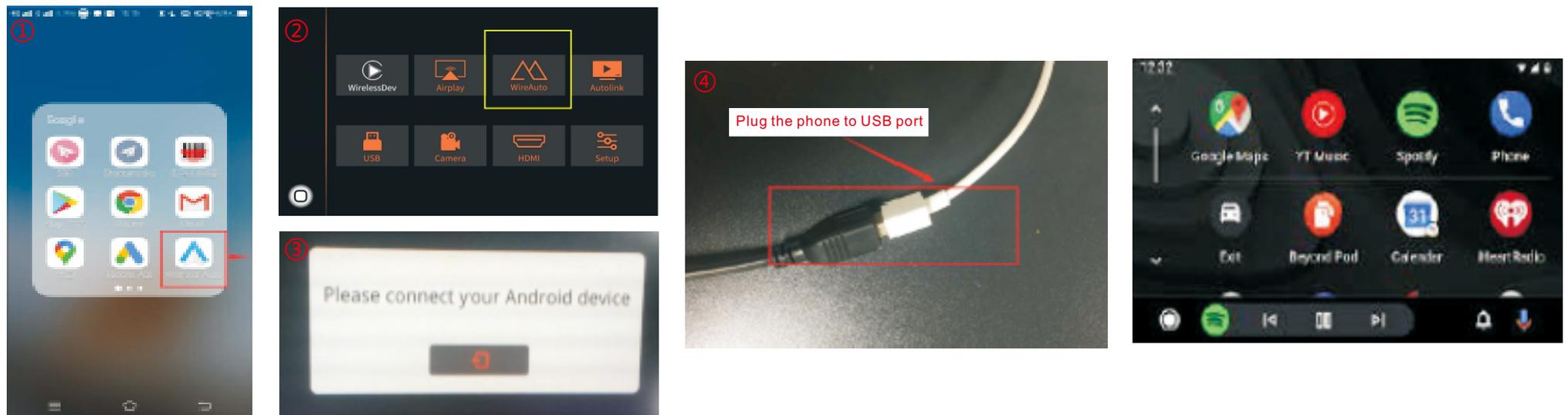
Wireless Airplay connection

1. Click 'Airplay' icon first (Fig.1), the pairing information with the phone will be displayed (Fig.2)

2.Search wifi signal of Airplay and conenct

3. Turn on Airplay (Fig3/4)

Note: If you have connected Carplay before, please disconnect Carplay wifi first.
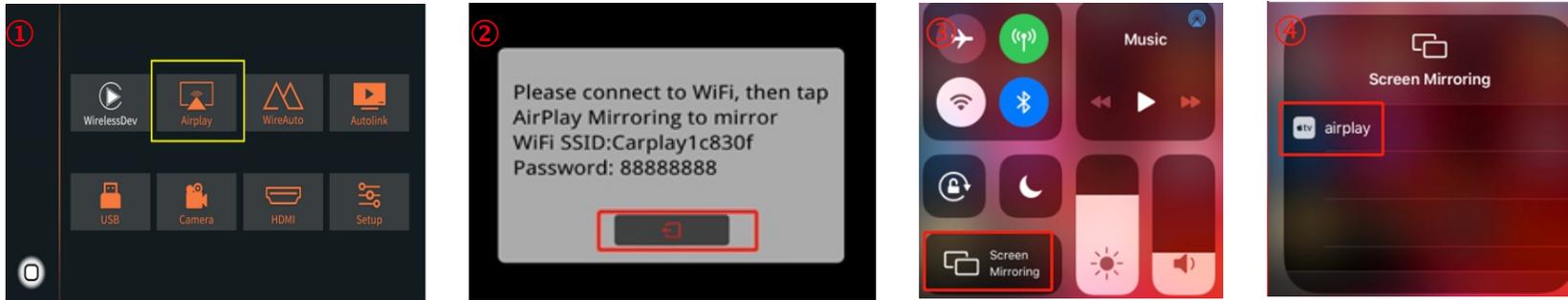
Wired Autolink connection

1. Download Android auto APP on your Android phone and tuon on all the prompt permissionsn of this APP (Fig.1).

2. Click 'Autolink' icon(Fig.2), the prompt 'Please connect your Android device' will pop up(Fig.3).

3. Plug your phone to USB port(Fig.4). it will enter Android auto automatically(Fig.5).
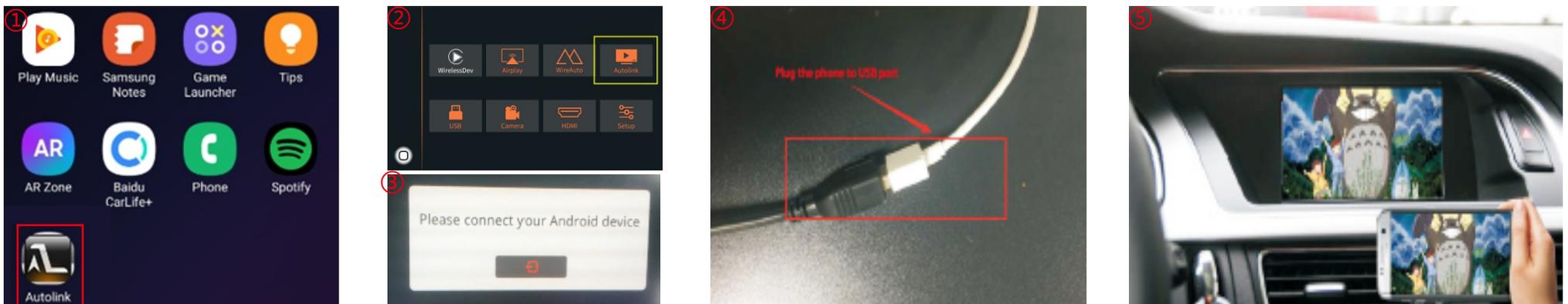
Original buttons

BMW i-Drive Button

Steering Wheel Buttons

Button	Function	Operation	Remarks
① **MENU**	System switching	Long press the button for 3 seconds	OEM ⟷ CarPlay
② **Back**	Go back	Press the button short time	Apple Car Play Function 🍎 / Google Android Auto 🤖
	Restart	Press the button 5 seconds	You can use this function when you get in trouble
③ **Dial**	Move the pointer Left or Right	Turn the dial Move Left or Right	Apple Car Play Function 🍎 / Google Android Auto 🤖
Dial	Move the pointer Up or Down	Move the Dial Long time	Apple Car Play Function 🍎 / Google Android Auto 🤖
④	Ok key	Short puress to choose / Press the button 5 seconds to activate siri	Apple Car Play Function 🍎 / Google Android Auto 🤖
⑤	Volume adjustment	Press to increase/decrease the volume	Apple Car Play Function 🍎 / Google Android Auto 🤖
⑥	"Siri" "Google Assistant"	Press the button 3 seconds	Apple Car Play Function 🍎 / Google Android Auto 🤖

Setting instruction:

- **Setting**
  - **System**
    - Language
      - English
      - Italian
      - Spainish
      - Turkish
      - Polish
      - Korea
      - French
      - Chinese/_cs
    - Display
      - Brightness
      - Contrast
      - Chromaticity
      - Saturation
    - Upgrade
      - System Upgrade
      - MCU Upgrade — for detailed info, please contact with our sellers
      - System Information
  - **Volume** — total sound of carplay box
  - **Alter Volume** — navigation sound
  - **Music Volume** — music sound
  - **Speech Volume** — siri sound

Setting

EQ — adjust audio effects
- Standard
- Custom
- Classic
- Rock
- Jazz
- Electric
- Pop
- Soft

Mic Setting
- Echo Config — echo setting resolution template
- Mic Volume — mircro volume amplification
- OP Volume — rough adjustment,for adjusting analog amplification
- Mic Delay — adjust echo cancellation delay parameters

Reverse
- Reverse Camera Setting
  - Original — oem camera
  - Aftermarket — adding camera
- Reverse Line — on : manual transmission / off :automatic transmission
- Reverse Track — off by default;on while adding camera
- Front View Time Set — off by default;on :while adding camera
- Park Enable
- Reverse Full screen

Setting

Carplay/Android-auto
- Left Scrap
- Right Scrap
- Top Scrap — parameters can be adjusted to make the sceen show symmetry
- Bottom Scrap
- Carplay Auto Dark Mode
- Enable Carplay U/D Key — make idrive select up or down

WiFi Channel(reboot requried)
- 6 — 2.4GHZ,basic wifi channel
- 36 — 5GHZ,global universal channel
- 149 — 5GHZ,china channel

Right Drive
- on: right hand drive; off: left hand drive

Camera Mirror

Using Car's BT Phone

Enable Wheel Key
- activate the function of steering wheel

FAQ

1.Q: What need to be paid attention to during installation?

A: 1) Make sure that the carplay box is compatible with the installed model, and check whether the label of box matches with the car model.
2) Power off during installation
3) After the installation is complete, it is best to lock the car for a few minutes to turn it on, wait until the running test is normal, then restore the car.

2.Q: After installing the box unit, the screen displays no signal or switches to the carplay interface with display of black screen, yellow screen, abnormal screen or no response.

A: 1) Check whether the wiring is connected according to the wiring diagram,
2) original car LVDS cable must be transferred to inport of carplay box which is disconnected from screen monitor
3) If the wiring connection is normal but the display is not normal, check if the pins of the lvds cable ports are bent or not in contact, you need to re-plug it.
4) Check whether the dip switch code is correct, after each change, re-plug the box's can power cable .
5) If the dip switch code and wiring connection are normal after inspection, box sitll switches to the black screen, it is recommended to upgrade the system under the guidance of relevant personnel

3.Q: I don't have sound when I connect carplay, what can I do?

A: 1) Connect fiber cable
2) Set AUX on OEM system，ensure that the Bluetooth signal connection between the mobile phone and the original car is disconnected.
3) If there is no sound after step1/2, connect AUX cable to AUX port of armrest box

ORIGINAL CONNECTOR
move it to new connector of new harness
the fiber optics plug on OEM connector
NEW CONNECTOR WE PROVIDE

CD/Multimedia
Radio
BMW Services
Vehicle information
Settings

CD
✓ External devices
Tone

1 2
3 4

Not connected
✓ AUX front

AUX active
Volume - +

to AUX port
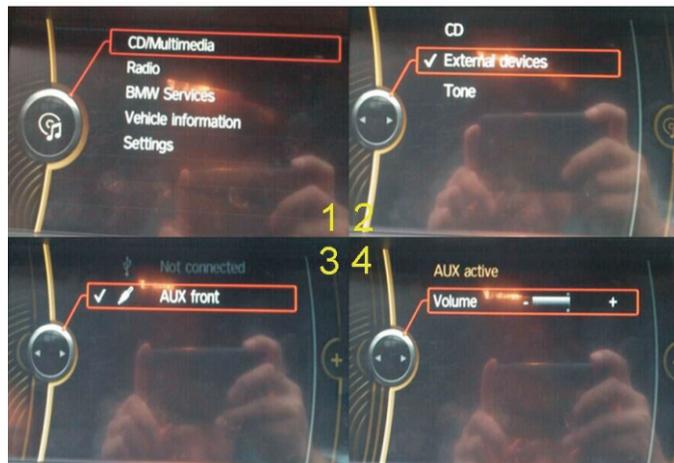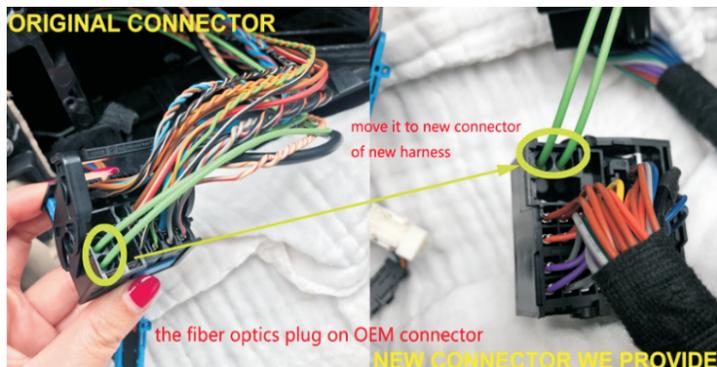
4. Q:My car has OEM microphone, but it can't work, what can I do?

A: Please use the following cable to connect to OEM microphone.

   1) Connect A to C

   2) Unplug blue connectors and place mic tap cable in between the connector with microphone on it and the main wiring harness coming from the roof.(B/D need to be connected)

OEM MIC

A

B

C

D
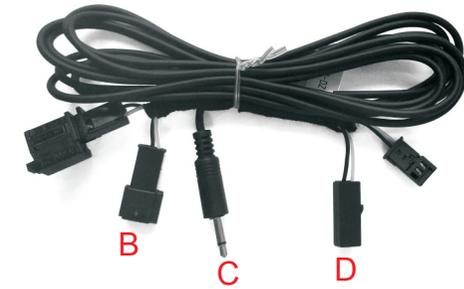
5. Q:I don't have OEM microphone, how to connect external microphone?

A: You can do as following solutions.

   1)Connect A with C, B with D.

   2) Set pin7 to ON, and restart

A

B

C

D
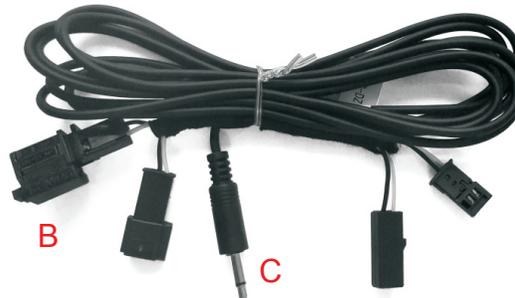
6. Q: Solutions to not being able to connect with carplay？

  A: can try to use the solutions below separately or together

    1) Click on carplay bluetooth or wifi on the mobile phone

    2) At the same time, clear the Bluetooth devices on the mobile phone and the car, and then pair and connect

   3) Go to WirelessDev to reset the Bluetooth, and then pair and (Fig.1)
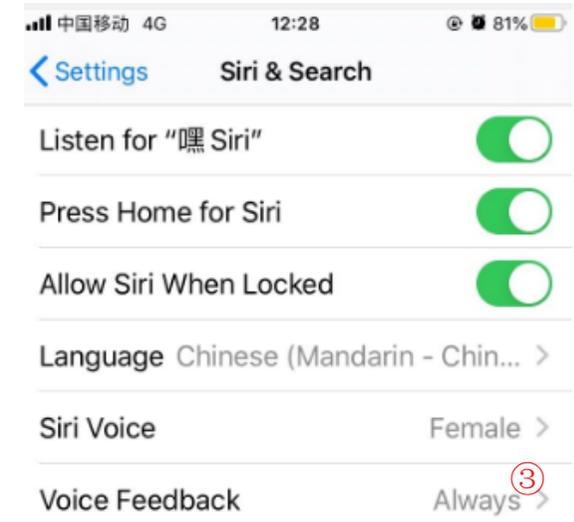
    4) Restore the mobile network to the mobile phone

    5) Check whether the carplay on the mobile phone is turned on (Fig.2)

    6) Siri permissions are all turned on(Fig.3)

    7) If necessary, check the antenna (whether it is broken, or attached to the metal, stay away from the box)

7. Q:When I call someone, he can hear himself, how to do?

A:1) Adjust the volume of the original car to normal use

2) Turn the volume in 'audio' setting to 13(Fig.1)
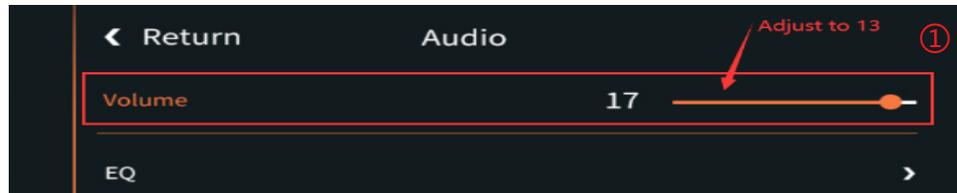
3) Turn the 'Microphone Volume' to 12

4) 'Microphone OP' tune from 0 until no echo is heard

5) Adjust 'AEC quality' to 2

6) If the caller hears the echo interval for a long time, fine-tune the 'Microphone delay

7) If the caller hears a small voice, you can fine-tune the 'Microphone Volume' and 'Microphone PGA'

8. Q:I install the carplay, but the button on steering wheel can't

work?A:1)Set the setting 'Enable wheel key' to ON(Fig.2)

2) Short press the voice botton or long prss 5s the ok button on idrive
knob to activate siri

9. Q:Siri function can not be used

A: 1) Check whether has turned the siri access permissions on iphone,turn all the options on

2) Turn the function of steering wheel on in carplay switch page setup

3) If can activate the Siri but Siri cant receive the command，please check whether the mic
works first，if no problem with mic, check the Bluetooth of iphone，disconnect it from original
car Bluetooth