Instruction Manual

CarPlay Integration for Mercedes-Benz NTG 4.5/4.7

Model No.	CI-CARPLAY-NTG45
MB-SW Ver.	060603
CP-SW Ver.	C7.1
Manual Ver.	1.3
Date	Nov. 29. 2018

CAR·INTERFACE.com

Content:

⚠ Warning:

- In order to protect the driving safety and avoid break the traffic law; please DO NOT operate the interface while driving.

- The reversing surveillance function just is used in reversing assistance. Please check the entire surroundings while reversing.

- All steps of installation should be done by the well-trained specialist.

- During installation, the ignition key should be taken off and after all installation finished, connect power cable last.

- Please DO NOT plug or pull the connected cables in the state of power-on, in order to avoid damaged monitor or accessory.

- Install wiring in a manner in which cables will not come in contact with metal parts. The wiring may be damaged by contact with metal parts, resulting in fire and shocks. Avoid all contact with hot surfaces when wiring the main unit. High temperatures may damage wiring, causing shorts, arcing and fires.

- Please DO NOT put the product in the damp environment or water, in order to avoid electric shock，damaged and fire accident caused by a short circuit.

- Kindly check all components are in the box when receiving the product. If anything missing, inform to the supplier/manufacturer.

- Start the engine before loading, check the interface whether have function displayed, key control whether correct, the vehicle

interface whether having a scratch. Please give the feedback to the supplier/manufacturer if there have any questions.

- Please note that put the disassembled automotive components in a good way on the installation process, avoid scratching the instrument panel, the leftovers of connecting cables need to handle and DO NOT leave it in the car. The connecting plug must be insulated in order to short circuit.

- The cables should be connected in a good way, the vehicle installation space is a little small, so reduce space usage as far as possible. There should be a good plan about connect cables, avoid affecting the active component of connecting, such as control components of turning the steering wheel, throttle and brake pedal. There need to be fastened after connecting cables in case of a drop.

Compatibility:

Brands	Class	Years	Original System
Mercedes-Benz	A Class (W176)	2012 - 2015	**NTG 4.5/4.7** system with **5.8/7** inch monitor **4 Pin** LVDS connector
	B Class (W246)		
	C Class (W204)		
	E Class (W212)		
	CLA (C117)		
	CLS (W218)		
	GLA (X156)		
	GLK (X204)		
	ML (W166)		

Features:

- Integrated 3 in 1 module supports Apple CarPlay, Android Auto, and screen mirroring functions

- Supports USB HD video and lossless music playback (APE, WAV, FLAC, MP3, WMA, etc.)

- Offers 2 CVBS video-in for front/rear view camera

- Support PDC (Parking Distance Control) and FPG (Flexible Parking Guidelines)

- Supply 12V power to the backup camera

- 2 alternative ways display front view (DIP setting): display automatically when shifted from "**R**" gear or long press "**BACK**" button

- VGA input for specific 360 panoramic system, offers a clearer picture

- Operate by OEM Comand controller & steering wheel buttons

- Support further software update by TF card

| Apple CarPlay | Android Auto | Mirroring | USB multimedia | FPG | PDC | 2*CVBS in | Software update |

Package Components:

Main Unit

Dimension: 143*102*26 mm

Quadlock Main Power Cable

4 pin LVDS Cable

USB/MIC Cable

Optional Component:

External Microphone
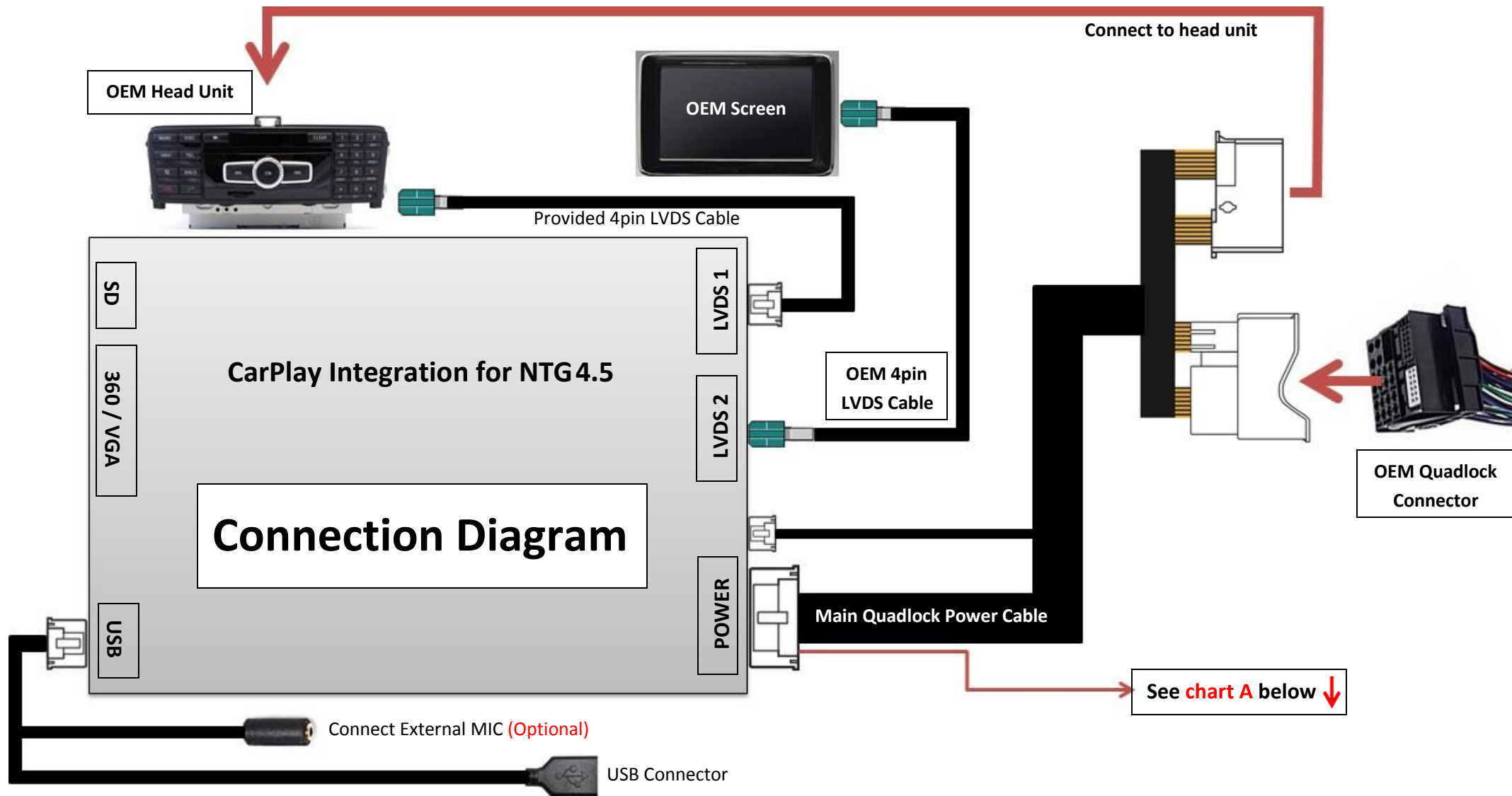
(Needed when a car without

OEM MIC)

Connect to head unit

OEM Head Unit

OEM Screen

Provided 4pin LVDS Cable

SD

360 / VGA

CarPlay Integration for NTG 4.5

LVDS 1

LVDS 2

OEM 4pin
LVDS Cable

Connection Diagram

POWER

USB

Main Quadlock Power Cable

OEM Quadlock
Connector

See **chart A** below

Connect External MIC (Optional)

USB Connector

Chart A: ↓

FM audio transmitter

BT audio transmitter

NOTE! Other ways like connect to FM/BT audio transmitter could be also used for audio transmission to factory radio.

How to delivering audio to OEM radio

Connect to AUX interface after activating OEM AUX function in the engineering menu.

- Radio
  - Disc
  - Memory card
  - Music Register
  - USB storage
  - Media Interface
  - Bluetooth audio
  - Aux
  - Video Sys
  - 88.6 MHz
  - adio St
  - Info FM

Wire	Description
ACC_OUT	Supply power for DVR or other video devices. Just connect the ACC_OUT (RED) when use aftermarket front view camera
B+	
GND	
GND 2	Connect **GND** if there is any audio noise
LEFT_DET	N/A
RIGHT_DET	N/A
CAM_POWER	Supply 12V power for backup camera
REVERSE	Reverse detect (Connect to reverse light if **CAM_POWER** cable does not output 12V)
REAR_CVBS	Rear view camera video input
FRONT_CVBS	Front view camera/DVR video input
AUDIO OUT	AUX audio output (Connect to external audio adapter kits for sound delivering to OEM radio)

DIP Setting:

OFF

ON

ON ⬇

OFF ⬆

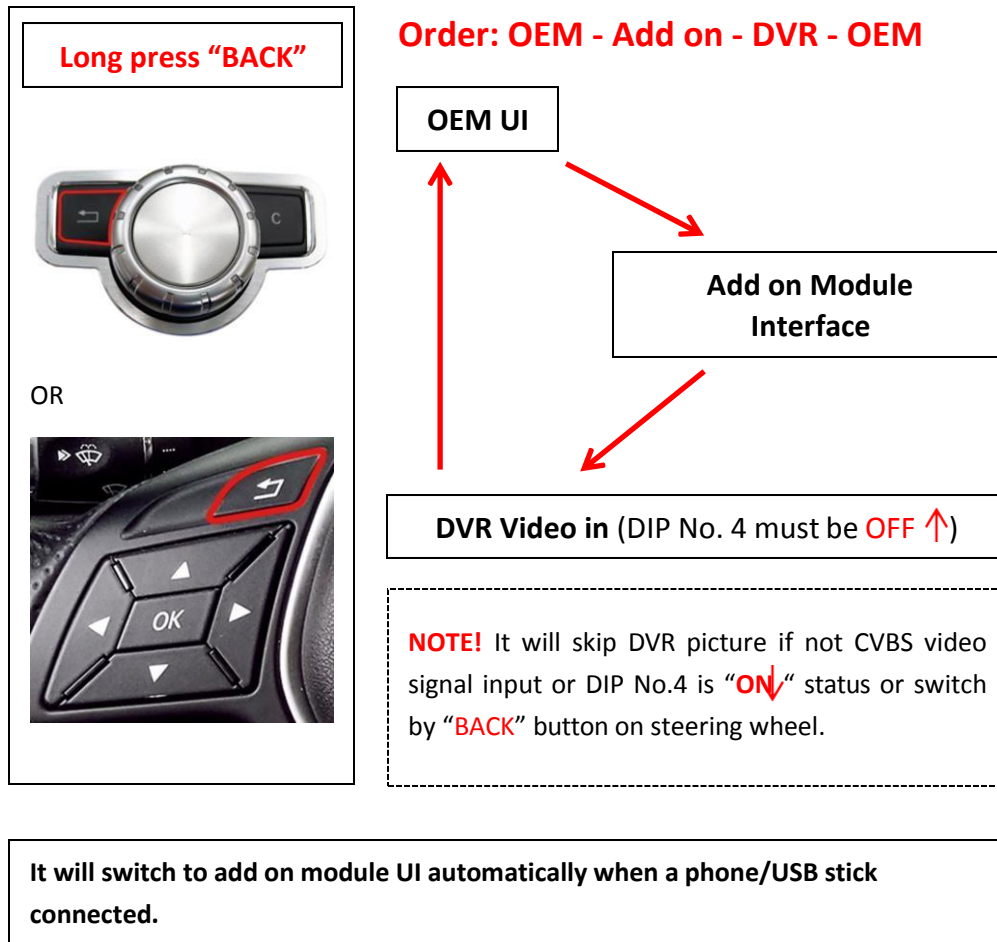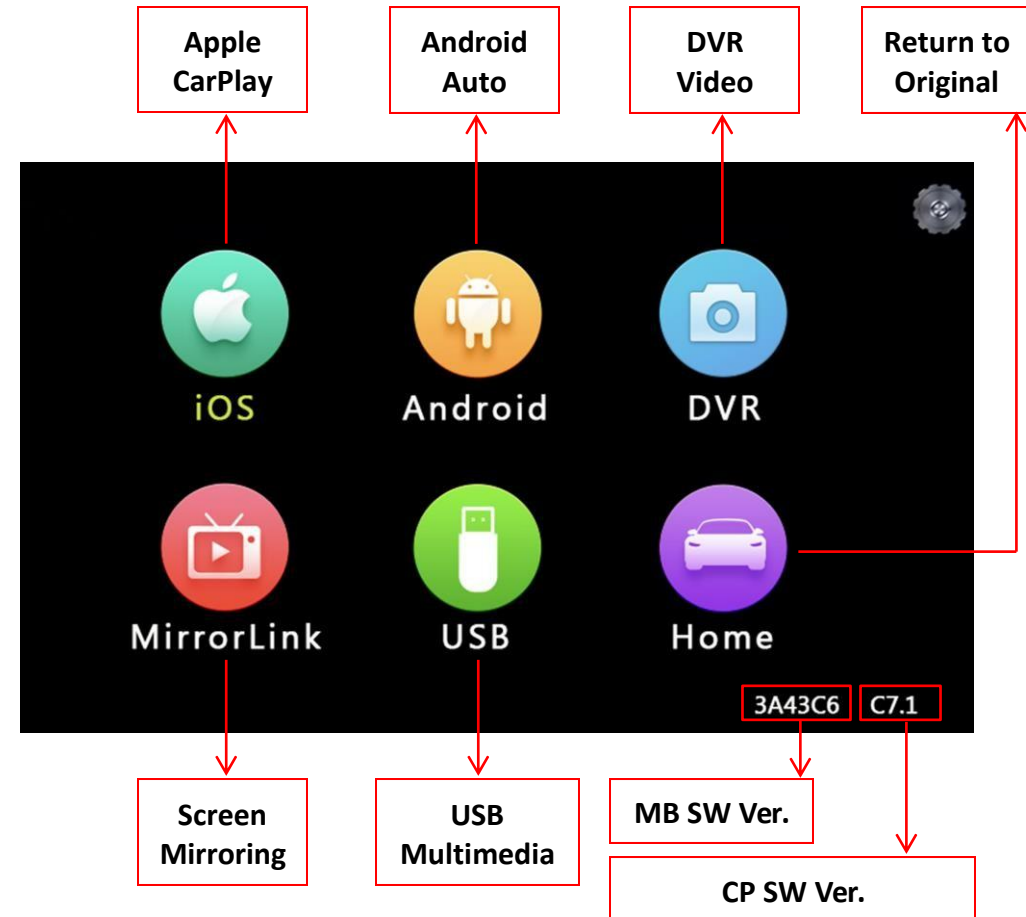| PIN	ON ⬇	OFF ⬆
1	Disable Dynamic Parking Guideline	Enable Dynamic Parking Guideline
2	Disable 360 Panoramic	Enable 360 Panoramic
3	CVBS	VGA (360 mode)
4	Display front view camera for 10S automatically after shifted from "**R**" gear	Skip front view camera (Long press "**BACK**" button to display front view/DVR)
5	5.8 inch	7 inch
6	Keep "**ON**" status	-
7	Original Rear View Camera	Aftermarket Rear View Camera
8	External Microphone	Original Microphone

NOTE! Please reboot the interface for effective after changing any DIP setting.
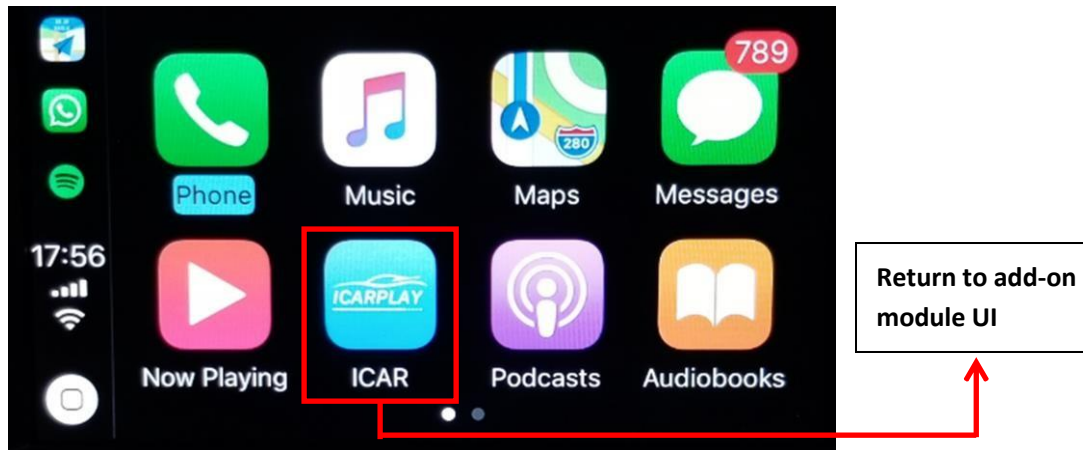
Operation Instruction:

● **How to switch from Original to Add-on interface**

Long press "BACK"

OR

It will switch to add on module UI automatically when a phone/USB stick connected.

Order: OEM - Add on - DVR - OEM

OEM UI

Add on Module Interface

DVR Video in (DIP No. 4 must be OFF ↑)

NOTE! It will skip DVR picture if not CVBS video signal input or DIP No.4 is "ON↓" status or switch by "BACK" button on steering wheel.

Add on module UI:

Apple CarPlay | Android Auto | DVR Video | Return to Original

iOS | Android | DVR
MirrorLink | USB | Home

3A43C6 | C7.1

Screen Mirroring | USB Multimedia | MB SW Ver.

CP SW Ver.

- **Apple CarPlay**
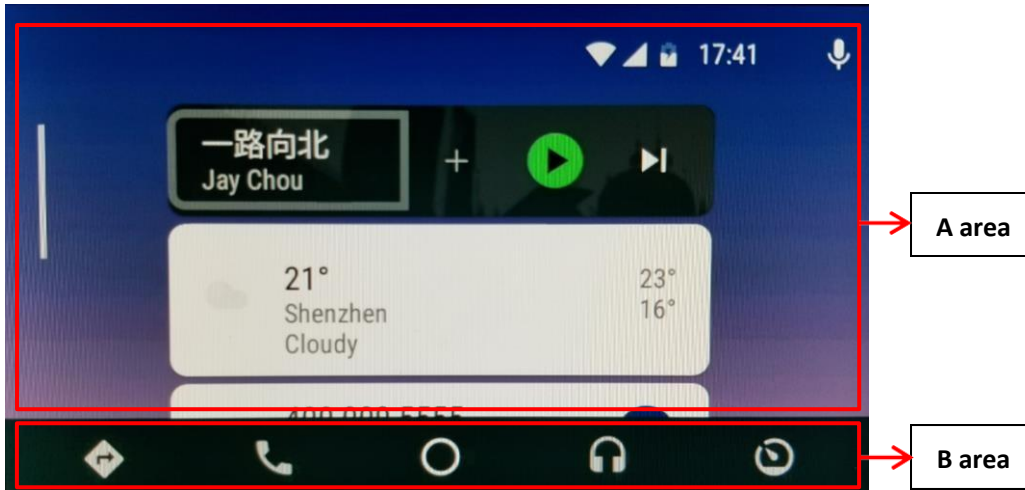

Return to add-on module UI

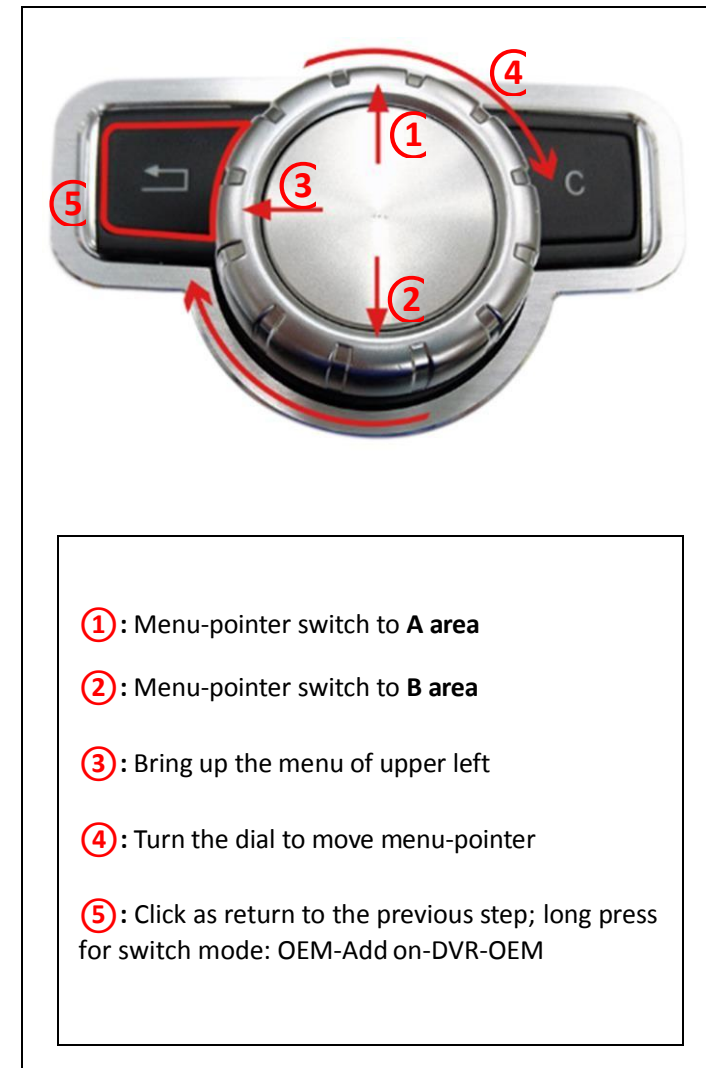**NOTE! Disconnect** the Bluetooth connection between the phone and car stereo when using Apple CarPlay.

①: Click as return to the previous step; long press for switch mode: OEM-Add on-DVR-OEM

②: Turn the dial to move menu pointer

③: Answer/Hang up phone call

④: Long press 3S to activate **Siri**

⑤: Long press 10S to reboot add on CarPlay module

- **Android Auto**

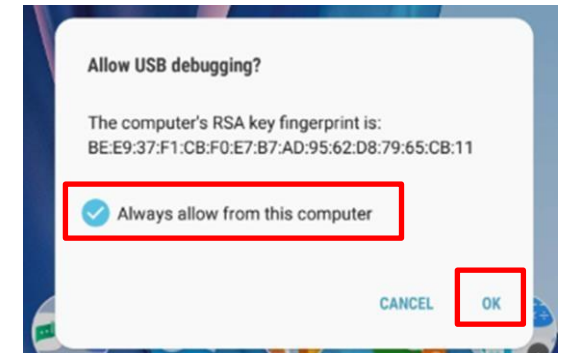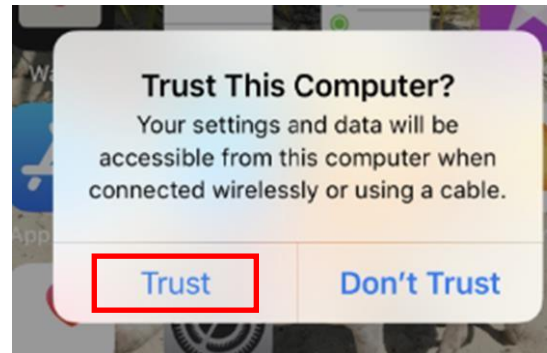
A area

B area

NOTE!

- Make sure smartphone connect to original car stereo Bluetooth for phone call audio delivering when using Android Auto.

- NOT available for activating **Google Assistant** with factory buttons, please use voice command "**OK Google**" instead.

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① : Menu-pointer switch to **A area**

② : Menu-pointer switch to **B area**

③ : Bring up the menu of upper left

④ : Turn the dial to move menu-pointer

⑤ : Click as return to the previous step; long press for switch mode: OEM-Add on-DVR-OEM

- ● **Mirroring**

Connect Android smartphone/iPhone with USB cable, and then enter "MirrorLink" for screen mirroring.

NOTE!

- ● Please always **trust or allow** when display a popup notification

- ● Enabling "USB Debugging" on an Android device

- ● Android device must connect to car stereo BT for all audio delivering

- ● **USB Multimedia Playback**

Connect a USB memory stick, enter "USB" icon for playing multimedia: Music, Picture, and Video.