



INSTRUCTION
MANUAL

Video Interface and Wireless Connected Car System

MB 2019 NTG6.0 D

BENZ NTG6.0 DIGITAL INTERFACE

DATA. 2020.04.06

CONTACT

W kaptrader.com

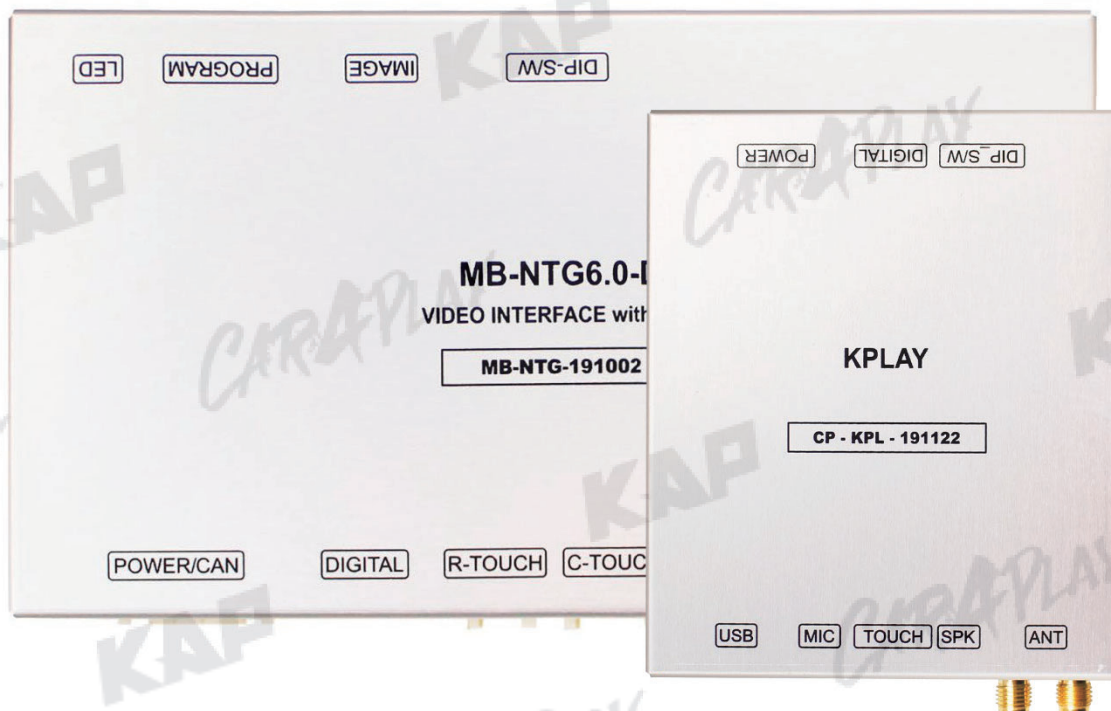
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F (+82) 6204 - 0913



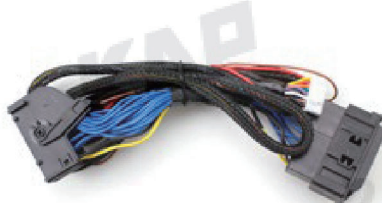
CAR COMPATIBILITY SHEET



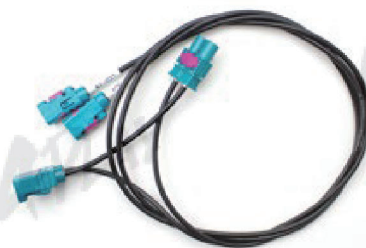
BRAND	MODEL	SCREEN	YEAR
MERCEDES BENZ	A-CLASS	10.2"	
	GLE	10.2"	



Interface



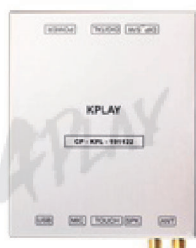
Power Cable



LVDS Cable



OSD Board



KPLAY



KPLAY Power Cable



HDMI Cable



MIC



Wifi/Bluetooth Antenna



AUX Cable

► **Warning**

- Please contact your dealer if any component is missing.

INTERFACE SPEC

1 KPLAY INPUT

- Wireless APPLE CARPLAY
- Wired APPLE CARPLAY
- Wired ANDROID AUTO
- USB storage media

2 INPUT

- 1 x Digital RGB Input (Navigation System source)
- 1 x CVBS(REAR CAMERA) Input (Rear camera source)
- 1 x LCD Input (Car Command System)

3 OUTPUT

- 1 x LCD Output (LCD Operation)

4 TOUCH

- 1 x Virtual Analog Touch (Navigation System source)
- 1 x Capacitive Touch (Navigation System source)

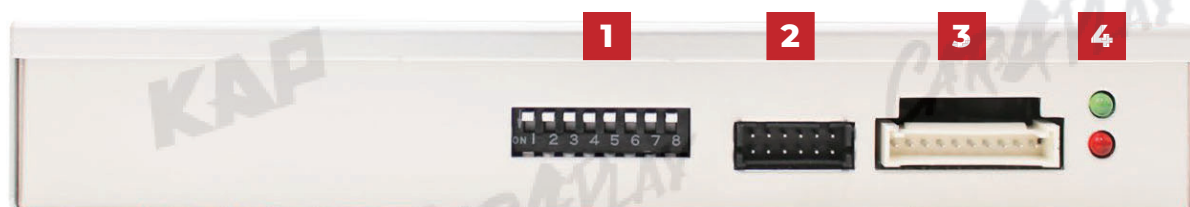
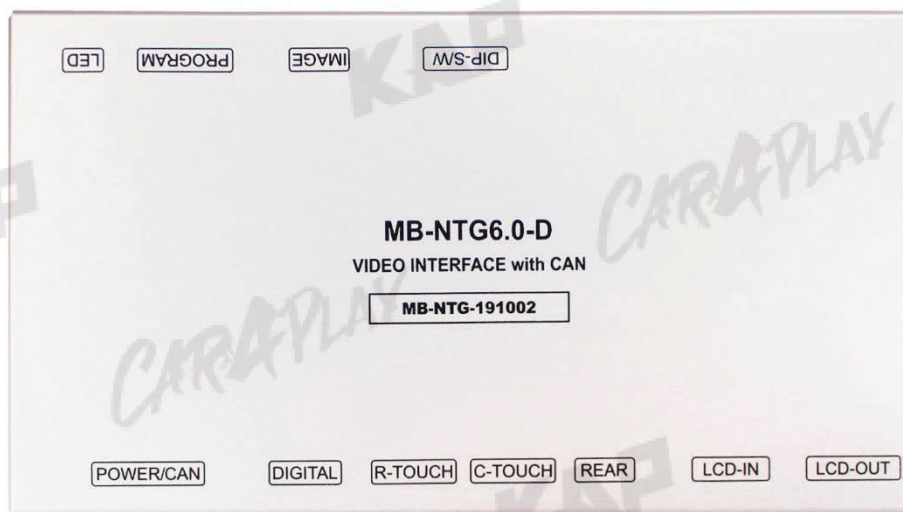
5 POWER

- Input Power : 8VDC ~ 24VDC
- Consumption Power : 12Watt, Max

6 SWITCH INPUT MODE

- Possible to select CAR model while switching mode by DIP S/W
- By button on the Commander in the car via CAN

EXTERNAL DEVICE SPECIFICATIONS



1 DIP SWITCH

2 IMAGE

3 PROGRAM

4 LED

- OSD connection

- Interface error check



5 POWER/CAN

6 DIGITAL RGB

7 RESISTIVE TOUCH

8 CAPACITIVE TOUCH

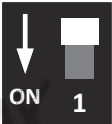
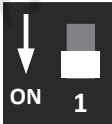
9 REAR

- REAR CAMERA IN

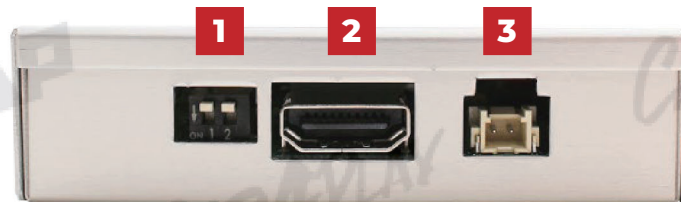
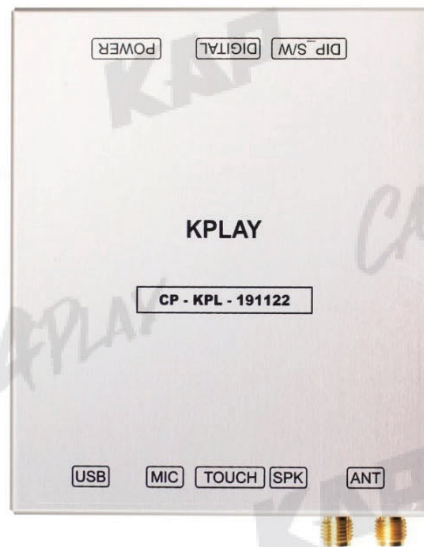
10 LCD IN

11 LCD OUT

DIP SWITCH SETTING

PIN	FUNCTION	INFORMATION	
		▲ OFF	▼ ON
1	NAVIGATION	 USE	 Do not use
2~4	No function		
5~8	Car Type	 A-CLASS (10.2inch) GLE (10.2inch)	

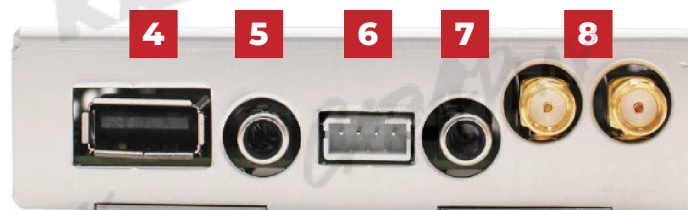
EXTERNAL DEVICE SPECIFICATIONS



1 DIP SWITCH

2 DIGITAL

3 POWER



4 USB

- Smartphone
- USB storage

5 MICROPHONE

6 RESISTIVE TOUCH

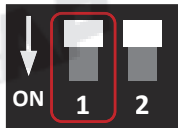
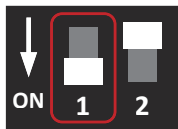
- 4PIN Touch

7 SPEAKER

8 WIFI/BLUETOOTH ANTENNA

KPLAY CONNECTOR PIN ASSIGNMENT



No	PORT	INFORMATION		
1	DIP SWITCH	No	FUNCTION	
		1	800x480 Resolution	
		2	1280x480 Resolution	
		► Warning DIP switch No. 2 has no function		
2	POWER			
		No.	Color	Signal Assignment
		1	Red	ACC
		2	Black	GND
3	TOUCH			
		No.	Color	Signal Assignment
		1	Black	Y+
		2	Green	X+
		3	White	Y-
		4	Red	X-

KPLAY CONTROL

MAIN SCREEN



1 APPLE CARPLAY

- Wireless
- Cable

2 ANDROID AUTO

- Cable

3 USB MEDIA

- VIDEO
- MUSIC
- IMAGE

4 SETTINGS



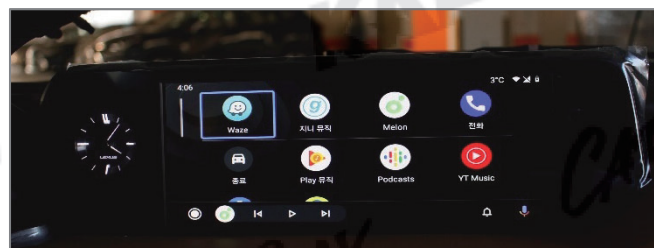
Apple CarPlay – 800 x 480



Android AUTO – 800 x 480



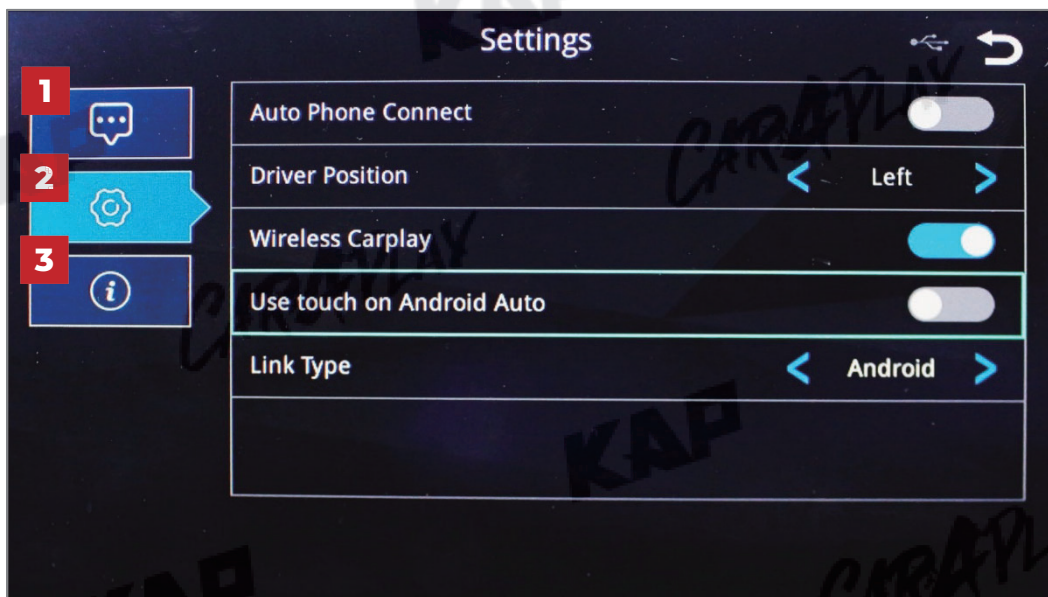
Apple CarPlay – 1280 x 480



Android AUTO – 1280 x 480

KPLAY CONTROL

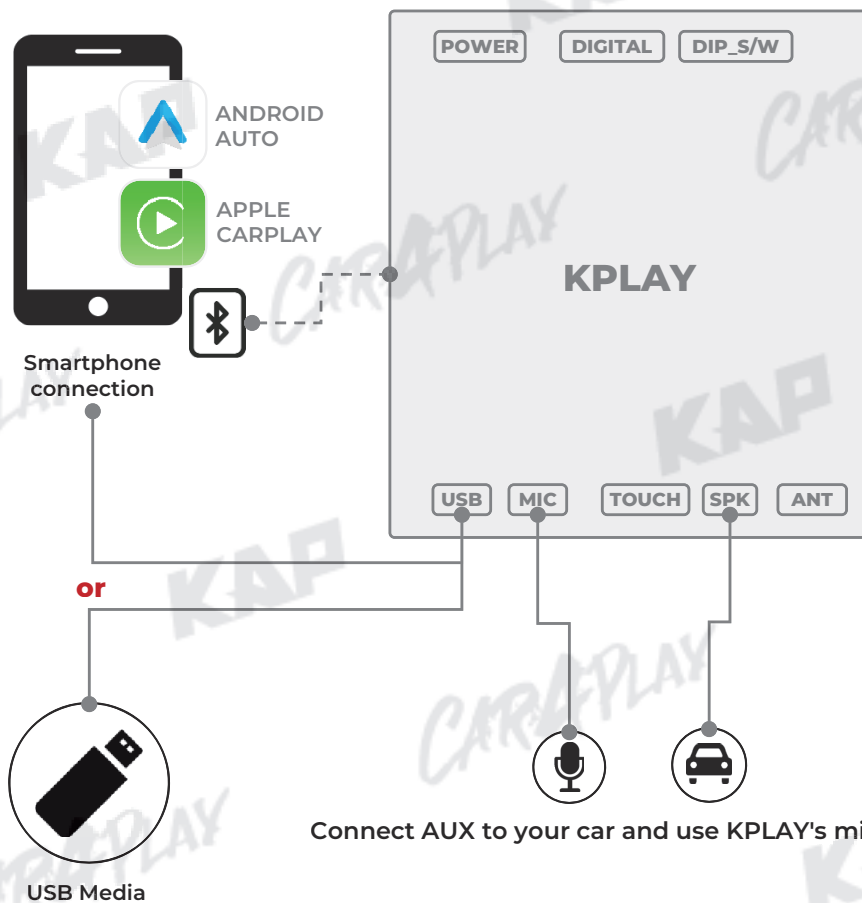
SETTINGS



No	INFORMATION		SELECTION	FUNCTION
1	Language settings	Languages		You can change the language of the settings screen
2	Connection settings	Auto Phone Connect (Only for wired connection)	Activation	Automatically launch Android AUTO or Apple CarPlay when smartphone is connected
			Disabled	Charge only when connecting a smartphone, select icon to launch Android AUTO or Apple CarPlay
		Driver Position	Left	Use when driver's position is left
			Right	Use when driver's position is right
		Wireless Carplay	Activation	Connect Apple CarPlay wirelessly (Bluetooth)
			Disabled	Used to wire Apple CarPlay
		Use touch on Android Auto	Activation	Touch is available when running Android Auto
			Disabled	Touch not available when running Android Auto
3	Firmware Information	Link Type	Android	Android Auto
			Carlife	do not select (Update Coming Soon)
		Reset		Factory reset
		Sys Update		Update firmware using USB

KPLAY CONTROL

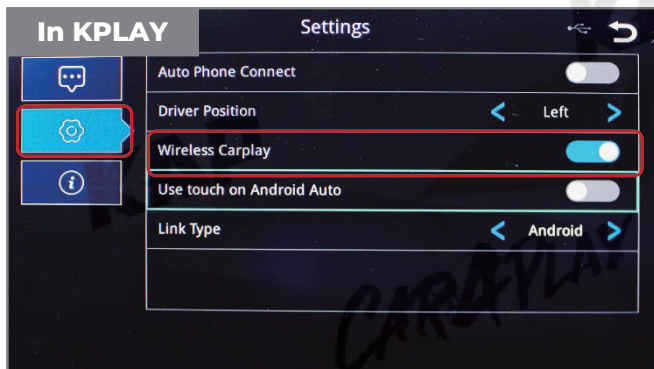
MEDIA CONTROL



No	INFORMATION		Can be used	CONTROL	NOTICE
1	Apple CarPlay	Wireless connection	Use all Apple CarPlay Functions	- AUX - MIC - TOUCH	- Multiple connections are not supported - Only one device can be connected unconditionally
		Cable Connection			
2	Android AUTO	Cable Connection	Use all Android AUTO Functions		
3	USB Media	Connection	Music, Photo, Video		

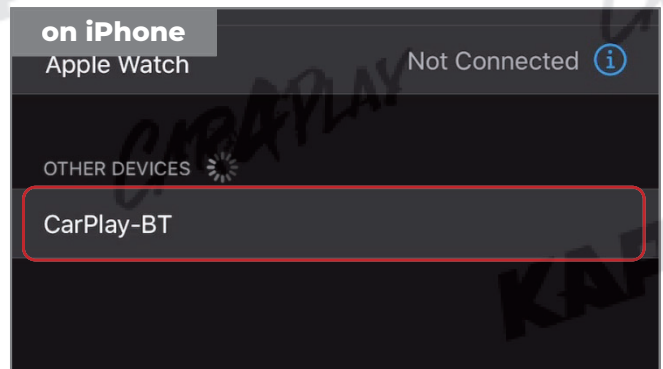
KPLAY CONTROL

iPhone Wireless connection - Connection method

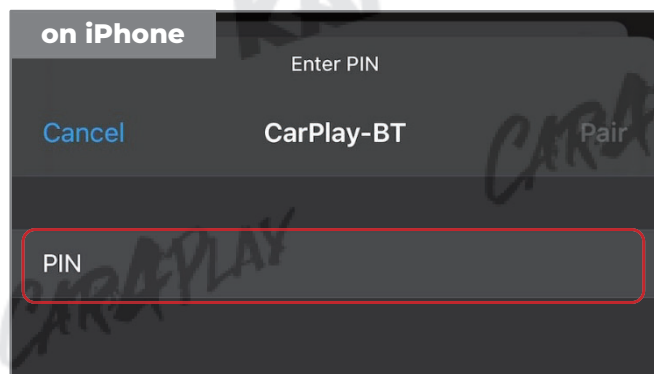


1. Activate Wireless Carplay in KPLAY Settings Menu

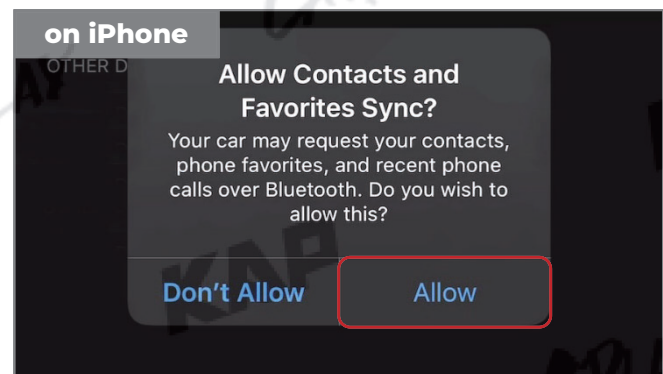
(If Wireless Carplay is enabled, you cannot connect by wire)



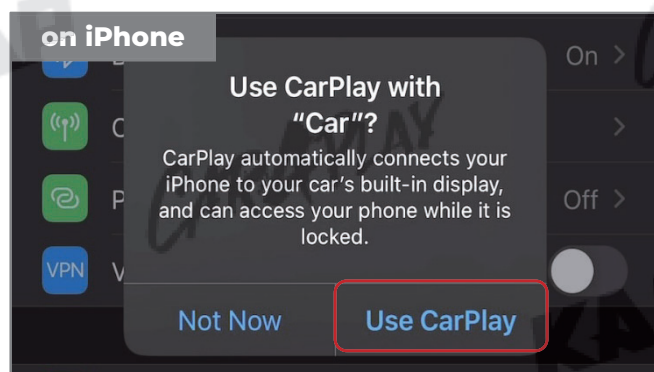
2. Choose CarPlay-BT in Bluetooth on iPhone



3. PIN Number "0000" enter



4. "Allow" select



5. "Use CarPlay" select

(Once connected, Bluetooth will be disconnected and connected via Wi-Fi)



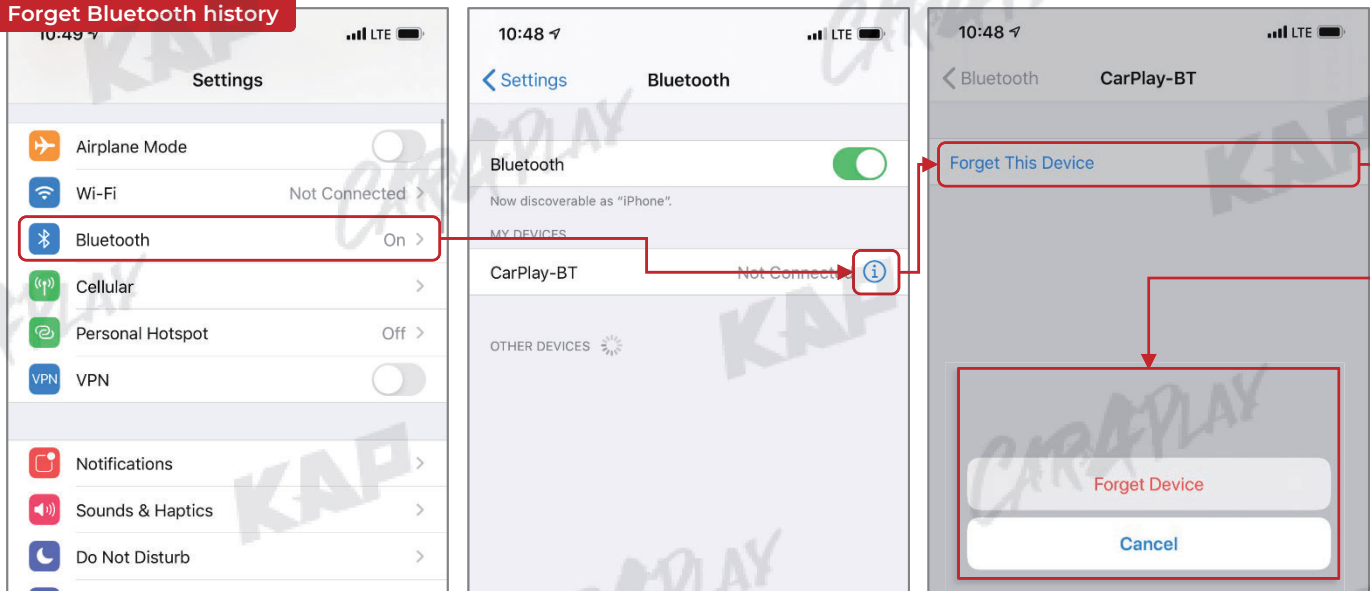
6. Enjoy CarPlay!

KPLAY CONTROL

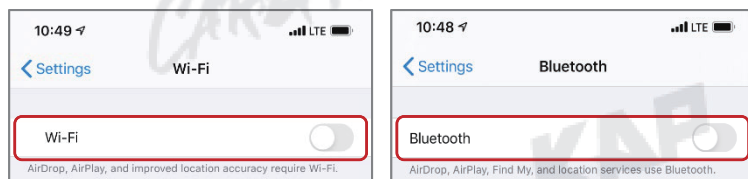
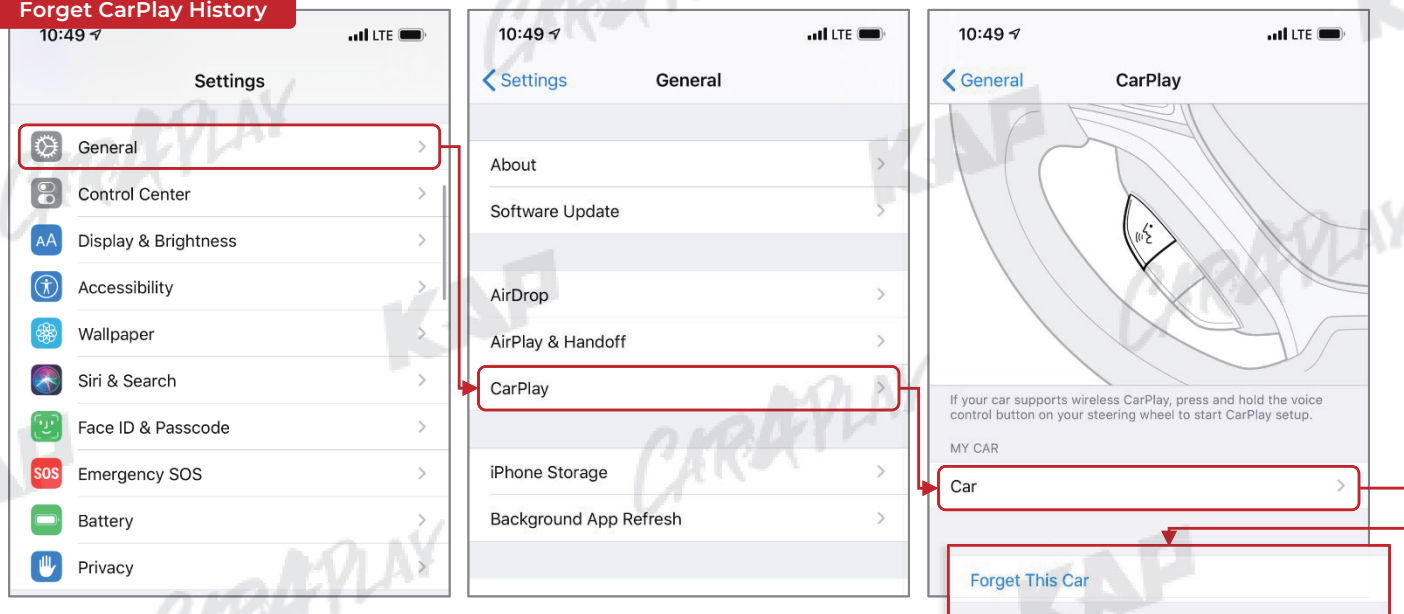
If your iPhone fails to connect

1. Make sure Siri is active
2. Delete the Bluetooth and CarPlay records as shown below,
3. disable and re-enable WiFi and Bluetooth, then try to connect again.

Forget Bluetooth history



Forget CarPlay History



Warning

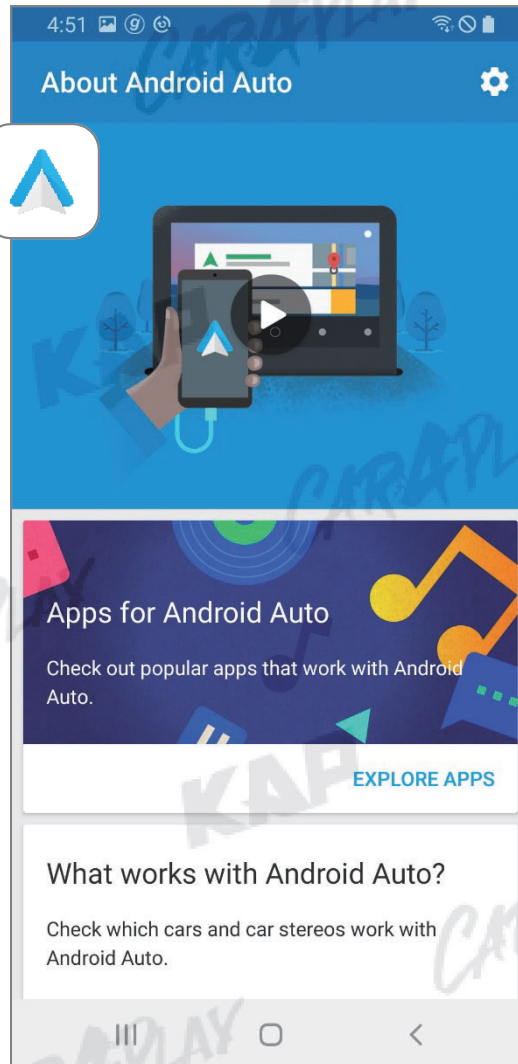
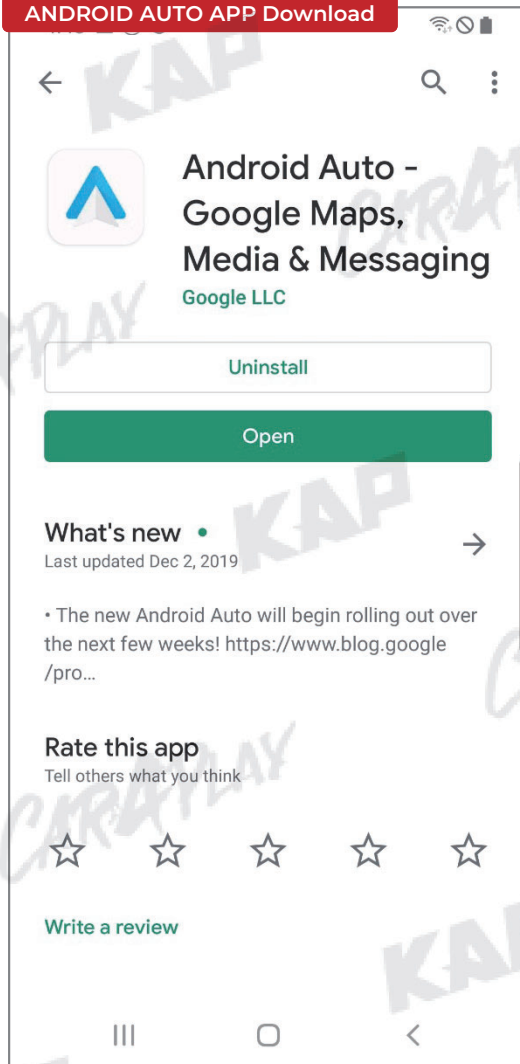
- Due to the nature of the wireless connection, sometimes the connection is not working properly
- If you follow the same procedure as above, but the connection is not working properly, reboot KPLAY and iPhone and try again

KPLAY CONTROL

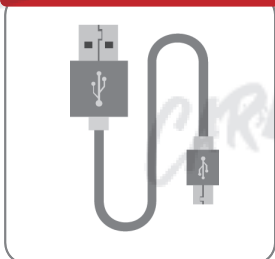
If your Android Phone fails to connect

1. Check if your smartphone has ANDROID AUTO application
2. Replace the cable

ANDROID AUTO APP Download



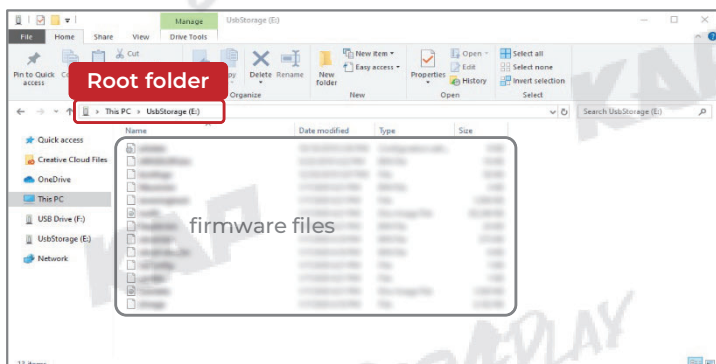
Changing the cable



► Warning

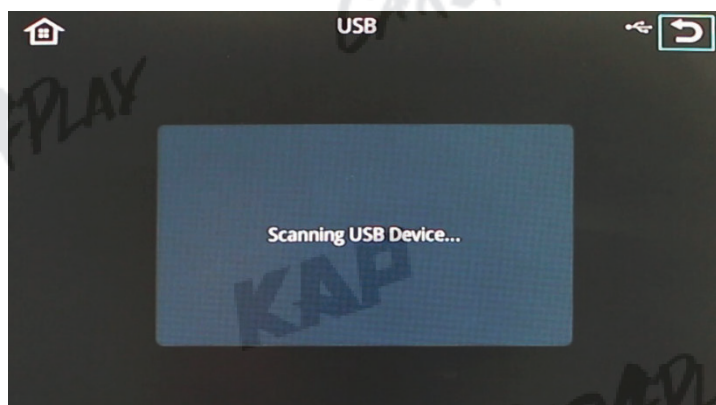
- Android Auto may not run even if the cable is not broken
- If you follow the same procedure as above, but the connection is not working properly, reboot KPLAY and iPhone and try again

FIRMWARE UPDATE

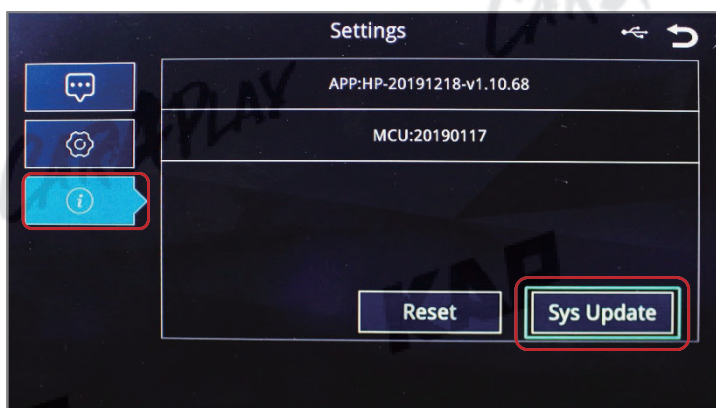


1. Add the firmware file provided in root folder * of the USB

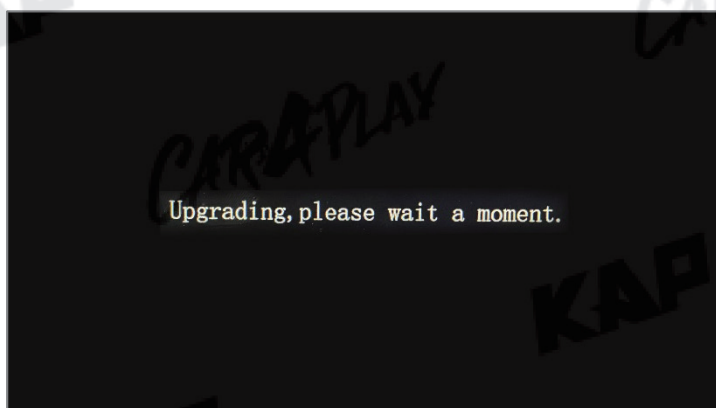
*Root folder : Top-level folder without adding folder



2. Connect USB to the KPLAY board with the update file. The USB media will be scanned automatically
Press the Home button on the top right corner of the USB Media screen and select the Settings menu



3. Select 'Sys Update' from the Settings menu



4. After the device reboots, check the message and wait for the update to complete.

► Warning

- If USB with firmware is connected, the update will be performed every time the device is rebooted

BUTTON CONTROL

Change Mode to Interface Screen



RADIO | MEDIA

BUTTON	PRESS	FUNCTION
RADIO MEDIA	Long press	OEM screen to interface screen Interface screen to the OEM screen
	► Screen change sequence : OEM > NAVI > AV1 > AV2 > OEM	

BUTTON CONTROL

Change Mode to Interface Screen



BACK

BUTTON	PRESS	FUNCTION
BACK	Long press	OEM screen to interface screen Interface screen to the OEM screen
	► Screen change sequence : OEM > NAVI > AV1 > AV2 > OEM	

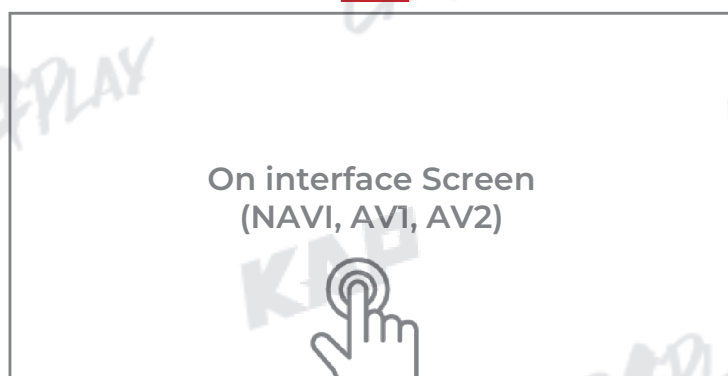
TOUCH CONTROL

Touch Calibration

MENU	Config	NAVI
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Calibration	Execute Cancel
Utility	Version	Interface version

Select OSD menu> Utility> Calibration.

or



Press and hold the display for longer than 10 seconds.



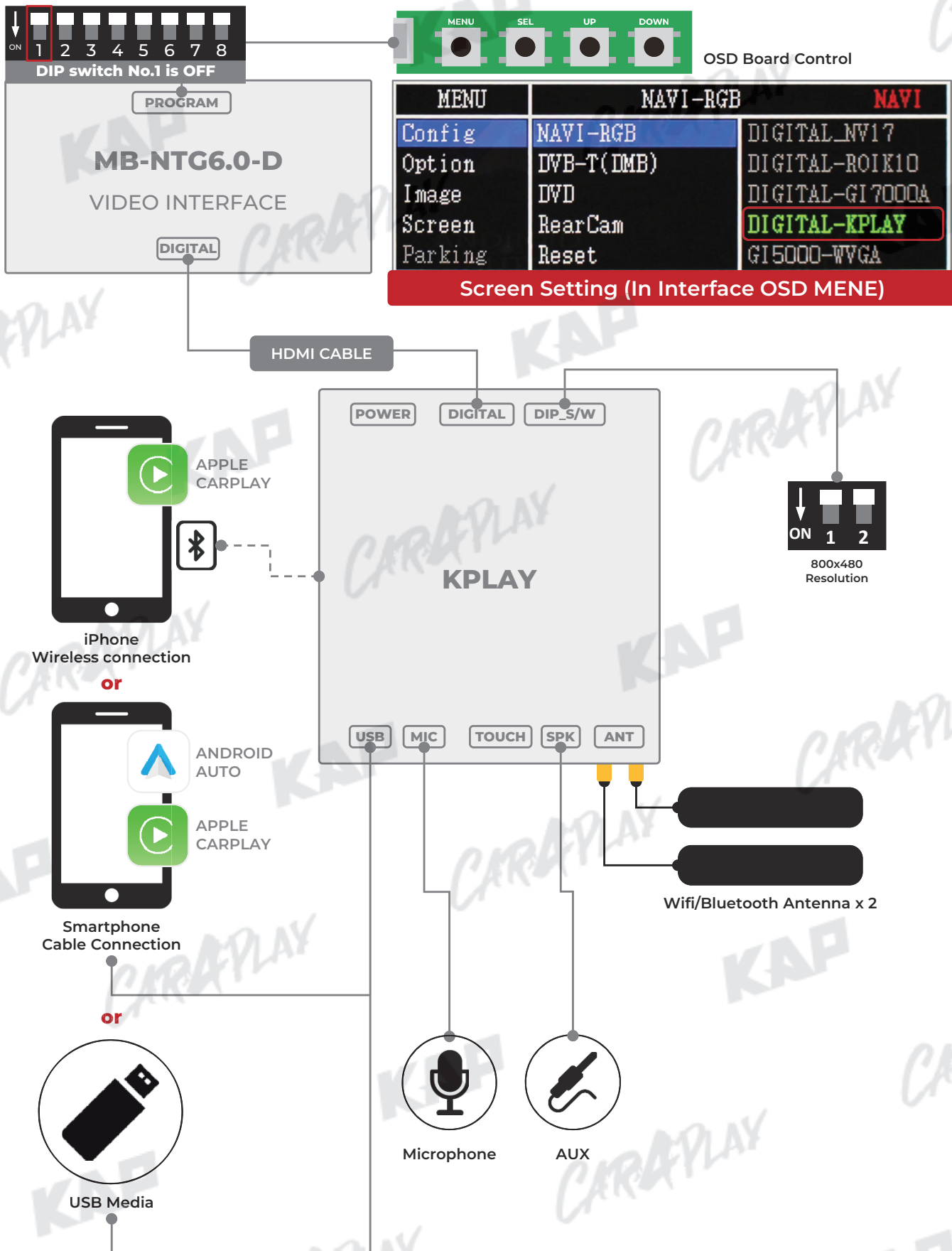
Warning

- Touch control icon in DVBT / DVD



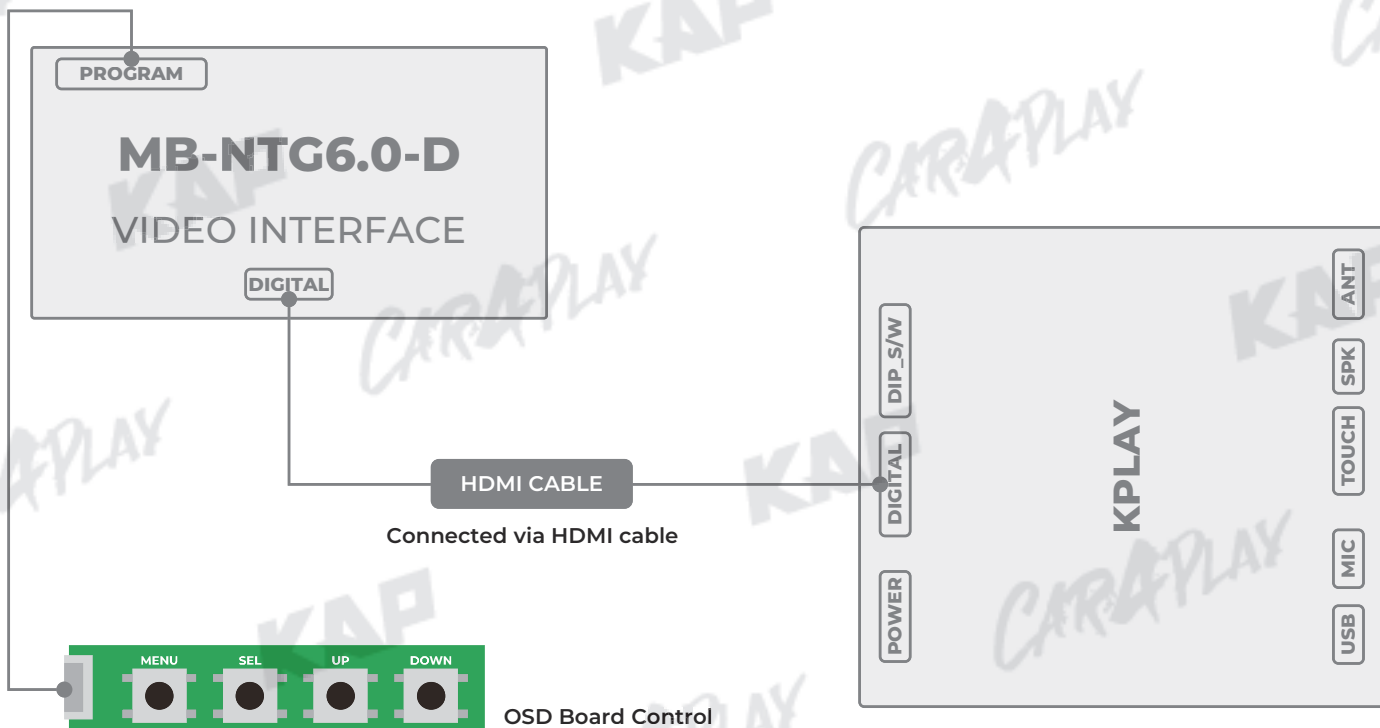
INSTALL MANUAL

KPLAY Connection – Screen Setting



INSTALL MANUAL

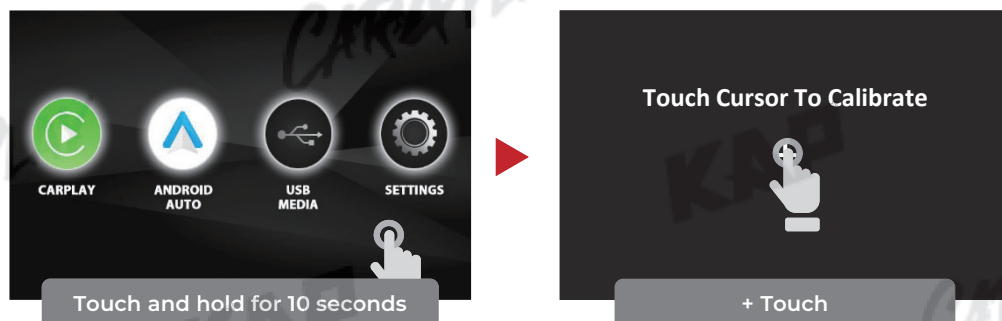
KPLAY Connection – Touch Setting



UART TOUCH Setting		NAVI COM	NAVI
Config	NAVI COM	I-MERCURY	
Option	RearCam-Type	NAVTEK	
Image	RearCam-Power	KPLAY	
Screen	RearCam-Det		
Parking	AV Mode		

UART Touch Setting (In Interface OSD MENE)

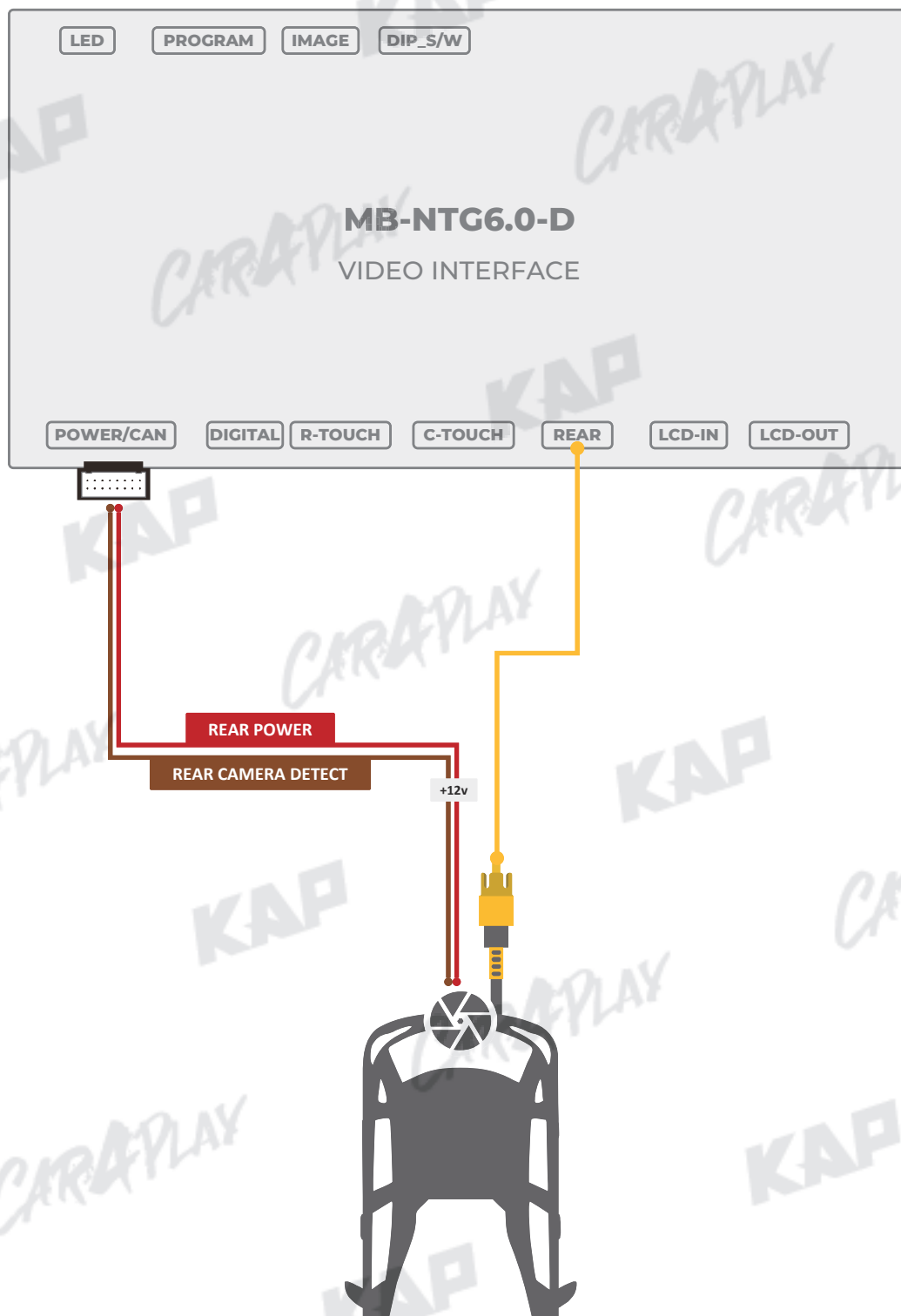
TOUCH CALIBRATION (IN KPLAY)



- Touch and hold anywhere on the screen for 10 seconds
- Touch in the center of the "+" icon

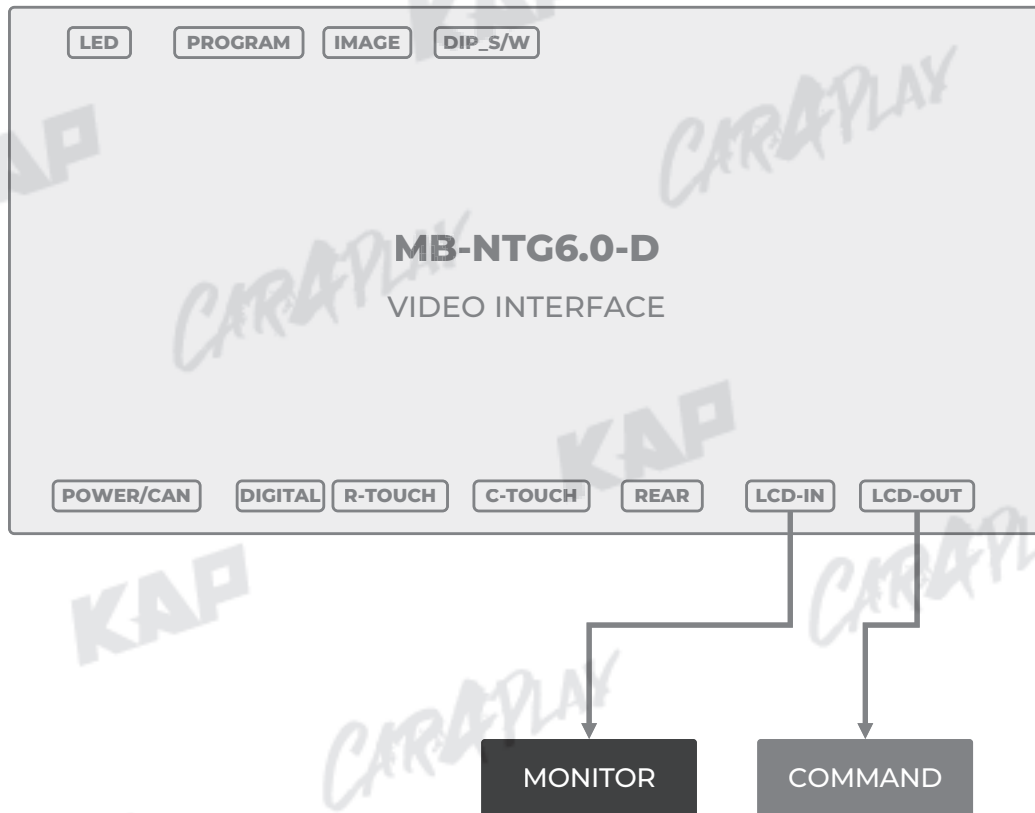
INSTALL MANUAL

EXTERNAL REAR CAMERA

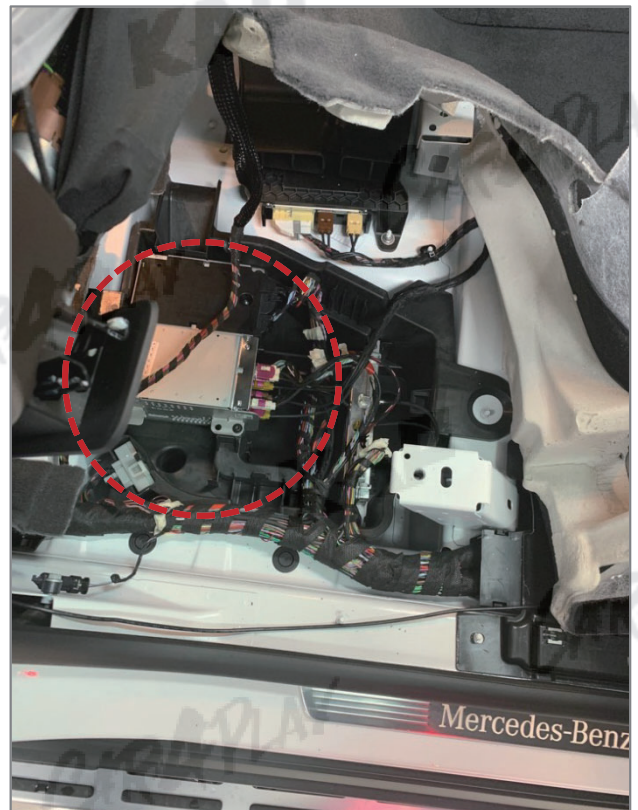


INSTALL MANUAL

INSTALLATION DIAGRAM



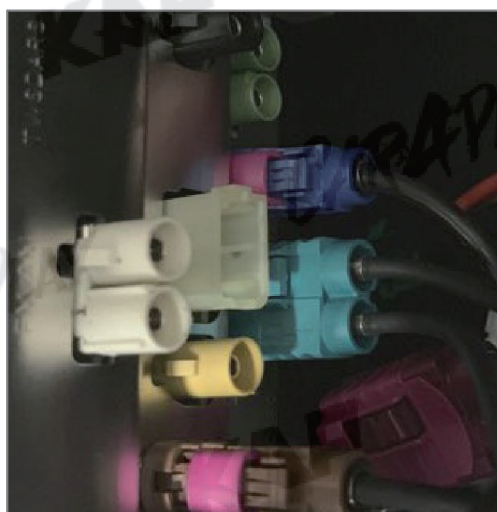
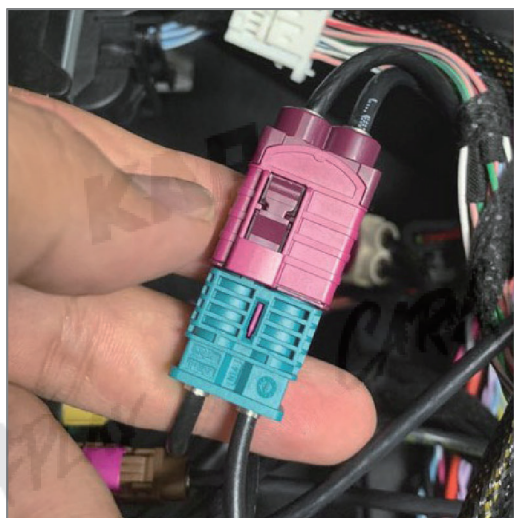
A-CLASS HeadUnit



GLE HeadUnit

INSTALL MANUAL

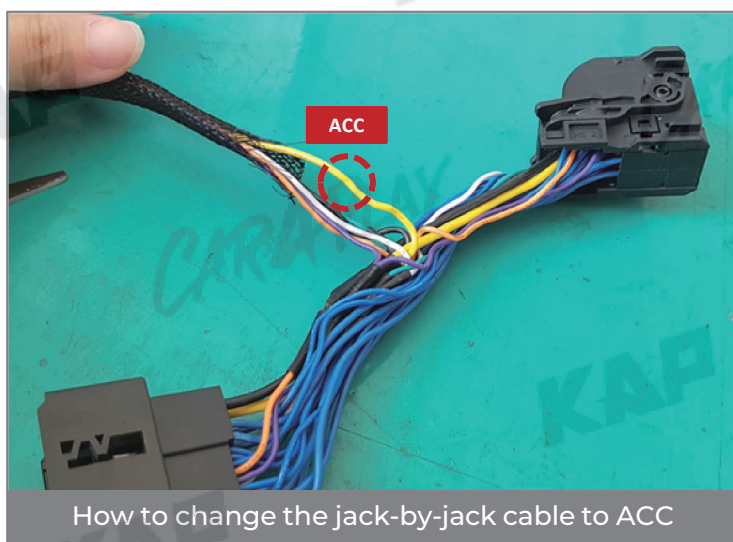
LVDS IN/OUT / POWER



LVDS IN/OUT



POWER JACK by JACK
(Check and connect the battery (yellow))



How to change the jack-by-jack cable to ACC

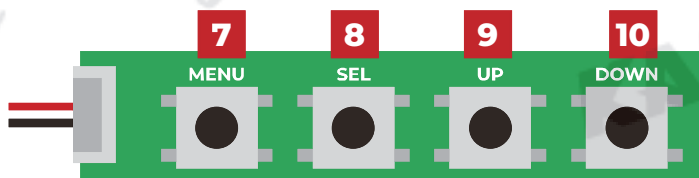
OSD CONTROL

Basic information

1	2	3
MENU	Option	NAVI
4 Config	5 RearCam-Type	6 ExtDevice
Option	RearCam-Power	Auto
Image	RearCam-Det	GEAR
Screen	AV Mode	Off
Parking	FrontCam-Type	ExtDevide

OSD(On Screen Display) Menu

1	MENU	2	Mode State	3	Interface Status
4	First Menu	5	Second Menu	6	Third Menu



No	OSD(On Screen Display) Board Control	
7	MENU	- The OSD screen can be switched ON/OFF - Return to previous menu
8	SEL	- Select the currently active item - If the OSD screen is off, mode changes can be made.
9	UP	- Move up from the menu - Increase the selected item value
10	DOWN	- Move down from the menu - Decrease the selected item value

OSD CONTROL

Config Menu

First Menu	Second Menu	Third Menu	Description
Config	NAVI-RGB	DIGITAL : :	Setting the Connected NAVI Model
	Reset	Execute Cancel	Reset to default value of Config menu

OSD CONTROL

Option Menu

First Menu	Second Menu	Third Menu	Description
Option	RearCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	RearCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Rear camera mode
		OFF	+ 12V off
	RearCam-Det	GEAR	Detected by CAN
		WIRE	Detected by Rear-Det Wire
	FrontCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
	FrontCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Front camera mode
		OFF	+ 12V off
	FrontCam-Det	CAN	Detected by CAN
		WIRE	Detected by Front-Det Wire
	FrontCam-RcvOpt	ON	The time (1-30 seconds) that FrontCam is displayed before returning to the previous state in RearCam.
		OFF	Disable feature
	Steering WheelBtn	ON	Switching screen by using Steering wheel button
		OFF	Do not use features.
	NAVI COM	HMS FINE :	Set up manufacturer of woodworking device for UART Touch use
		OFF	Do not use features.
	Reset	Execute	Option Menu all Reset

OSD CONTROL

Image Menu

First Menu	Second Menu	Third Menu	Description
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Saturation		[AV / REAR / FRONT / DVD / DVBT MENU] Adjust the value of Saturation
	Hue		[AV / REAR / FRONT / DVD / DVBT MENU] Adjust the value of Hue
	Sharpness		[AV / REAR / FRONT / DVD / DVBT MENU] Adjust the value of Sharpness
	Color-RED		[NAVI MENU ONLY] Adjust the value of RED
	Color-GREEN		[NAVI MENU ONLY] Adjust the value of GREEN
	Color-BLUE		[NAVI MENU ONLY] Adjust the value of BLUE
	Reset	Execute	Image Menu all Reset

OSD CONTROL

Screen Menu

First Menu	Second Menu	Third Menu	Description
Screen	Horizontal		Output screen horizontal movement
	Vertical		Output screen vertical movement
	Scale X Up		Reduce / increase output screen width
	Scale X Down		
	Scale Y Up		Reduce / Increase Output Screen Height
	Scale Y Down		
	Reset		Screen menu all reset

OSD CONTROL

Parking Menu

First Menu	Second Menu	Third Menu	Description
Parking	Line Display	ON	Show parking line
		OFF	Do not show parking lines
	OPS Display	ON	Show OPS
		OFF	Do not show OPS
	Warnings Lang		Set warning text language
	Horizontal		Moving a parking line horizontally
	Vertical		Moving a parking line vertically
	Transparency		Parking line transparency
	Reset		Parking menu all reset

OSD CONTROL

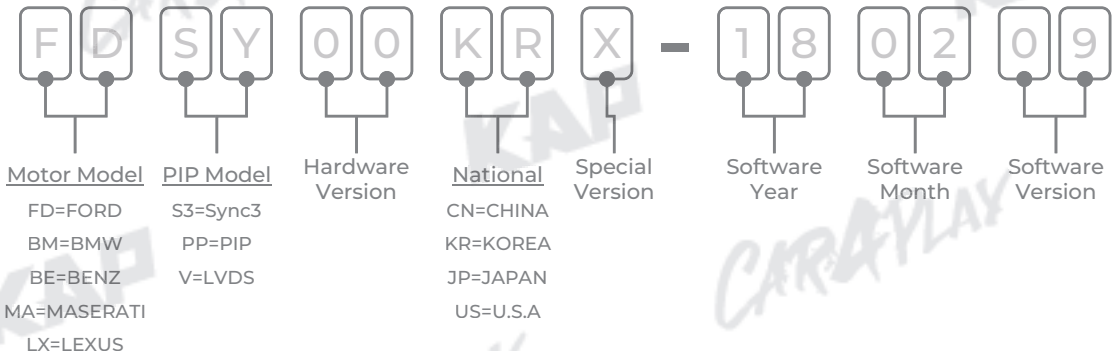
OSD Menu

First Menu	Second Menu	Third Menu	Description
OSD	Horizontal	<i>value</i>	OSD Menu Horizontal Shift
	Vertical	<i>value</i>	OSD menu vertical Shift
	Display Time	<i>value</i>	OSD Menu Display Time (in seconds)
	Transparency	<i>value</i>	OSD menu transparency
	Language		OSD menu display language
	Reset	Execute	Initialize OSD settings

OSD CONTROL

Utility Menu

First Menu	Second Menu	Third Menu	Description
Utility	Factory Reset	Execute	Initialize all settings
	Calibration	Execute	Run Calibration mode
	Version		FDSYOOKRX-180209 (Check for future upgrades)





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