

Audi-4G-HIGHEND

- MODEL : AD-4G-151223

- DATE : 2020.02.09



GU ELECTRONIC

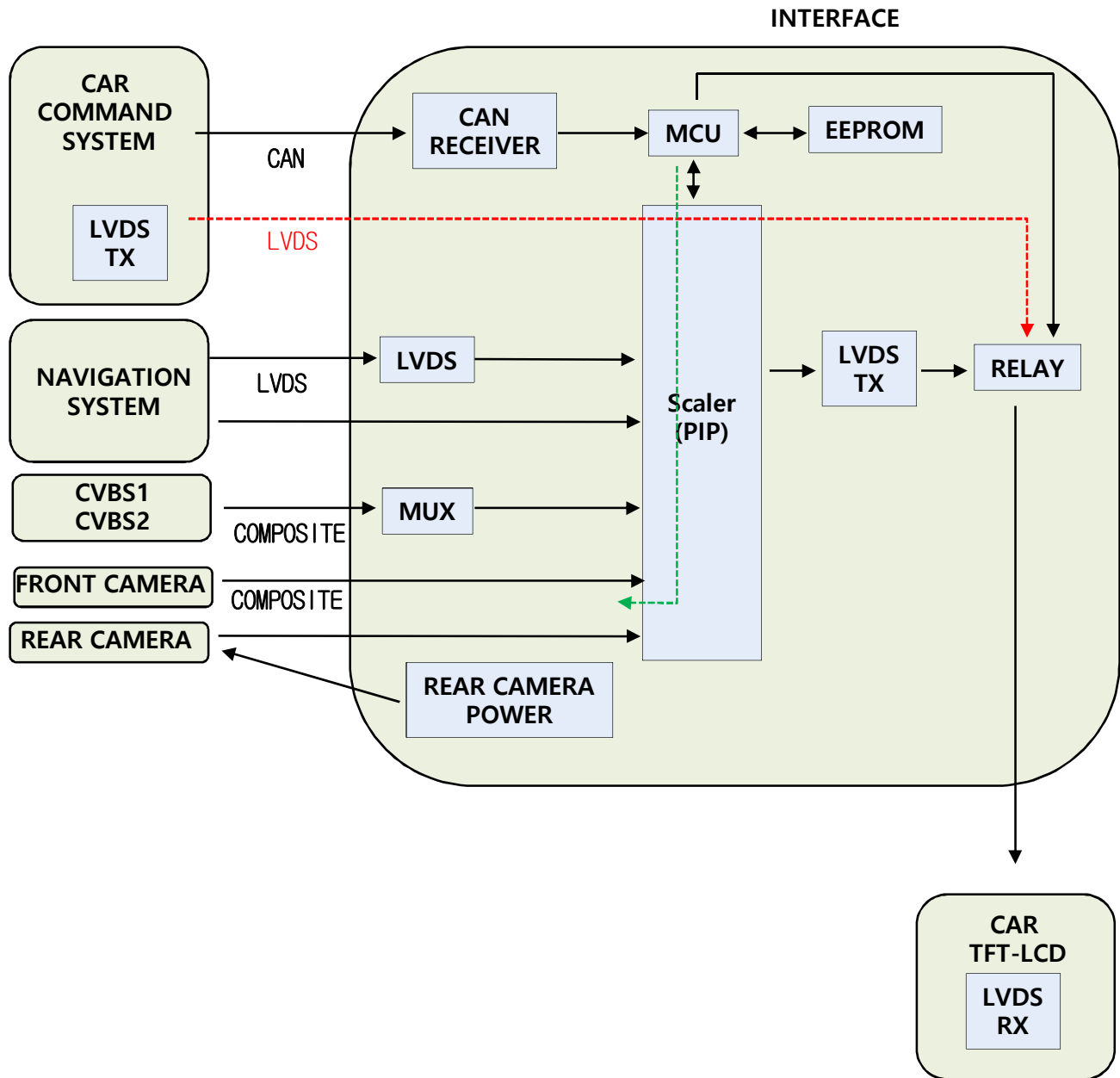
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1. Main Spec.

1. Input Spec. (MULTI VIDEO INTERFACE)
 - 1 x Digital RGB Input (Navigation System source)
 - 1 x Analog RGB Input (Navigation System output)
 - 2 x A/V Input (External video source)
 - 1 x CVBS(REAR CAMERA) Input. (Rear camera source)
 - 1 x CVBS(FRONT CAMERA) Input. (Front camera source)
 - 1 x LVDS Input. (Car Command System)
2. Output Spec.
 - 2 x CVBS Output (Video out for Installing Headrest Monitor)
 - 1 x Audio L/R Output.
 - 1 x Vertual Analog Touch (Navigation System source)
 - 1 x Uart Digital Touch (Navigation System source)
 - 1 x LVDS Output (LCD Operation)
3. Power Spec.
 - Input Power : 8VDC ~ 24VDC
 - Consumption Power : 12Watt, Max
4. 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

2. Block Diagram



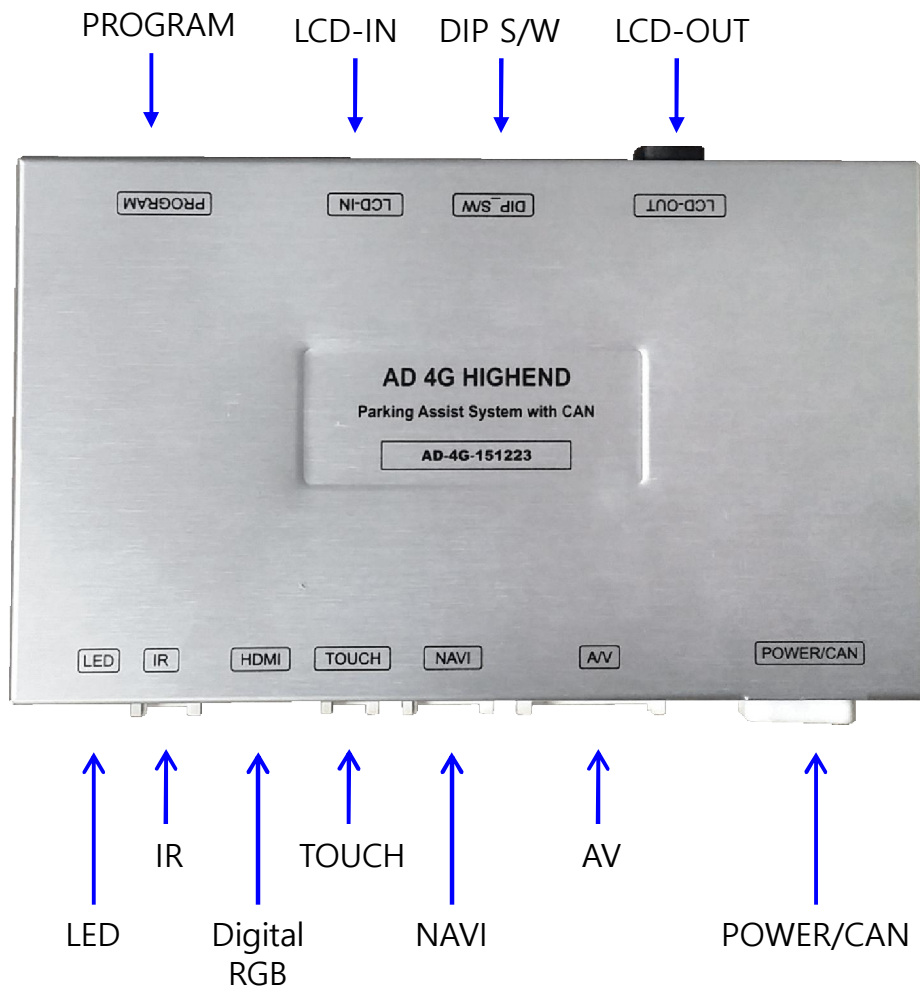
3. Dimension

156mm * 93mm * 26mm

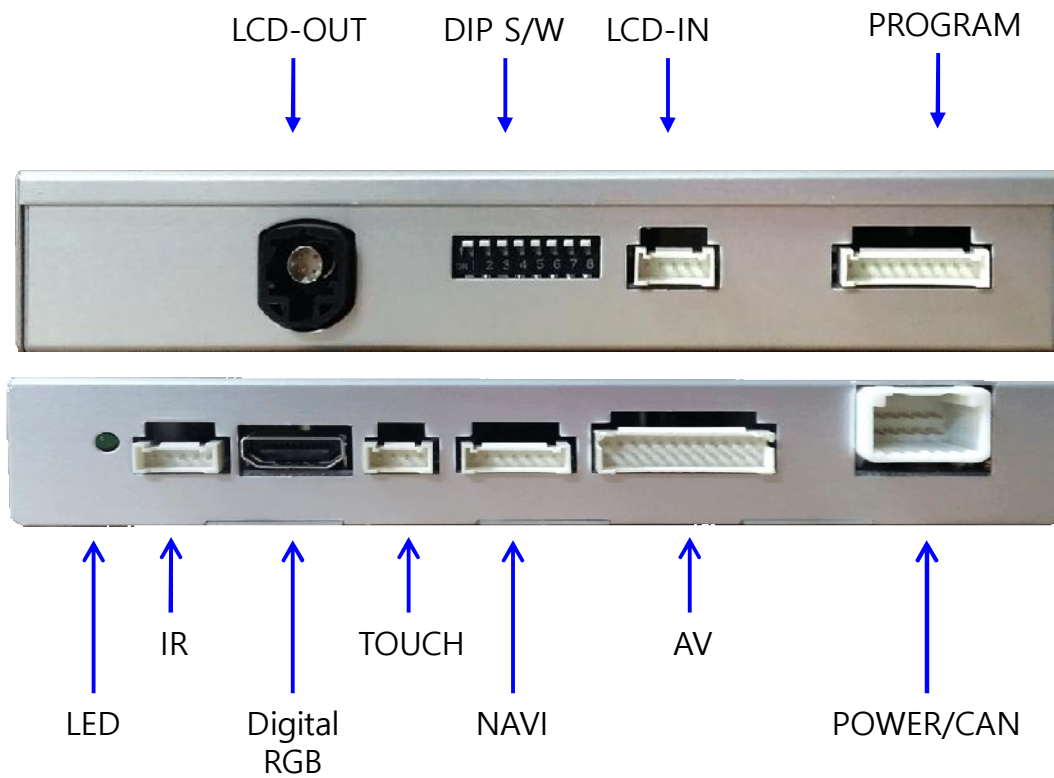


* This can change under manufacturer's circumstance

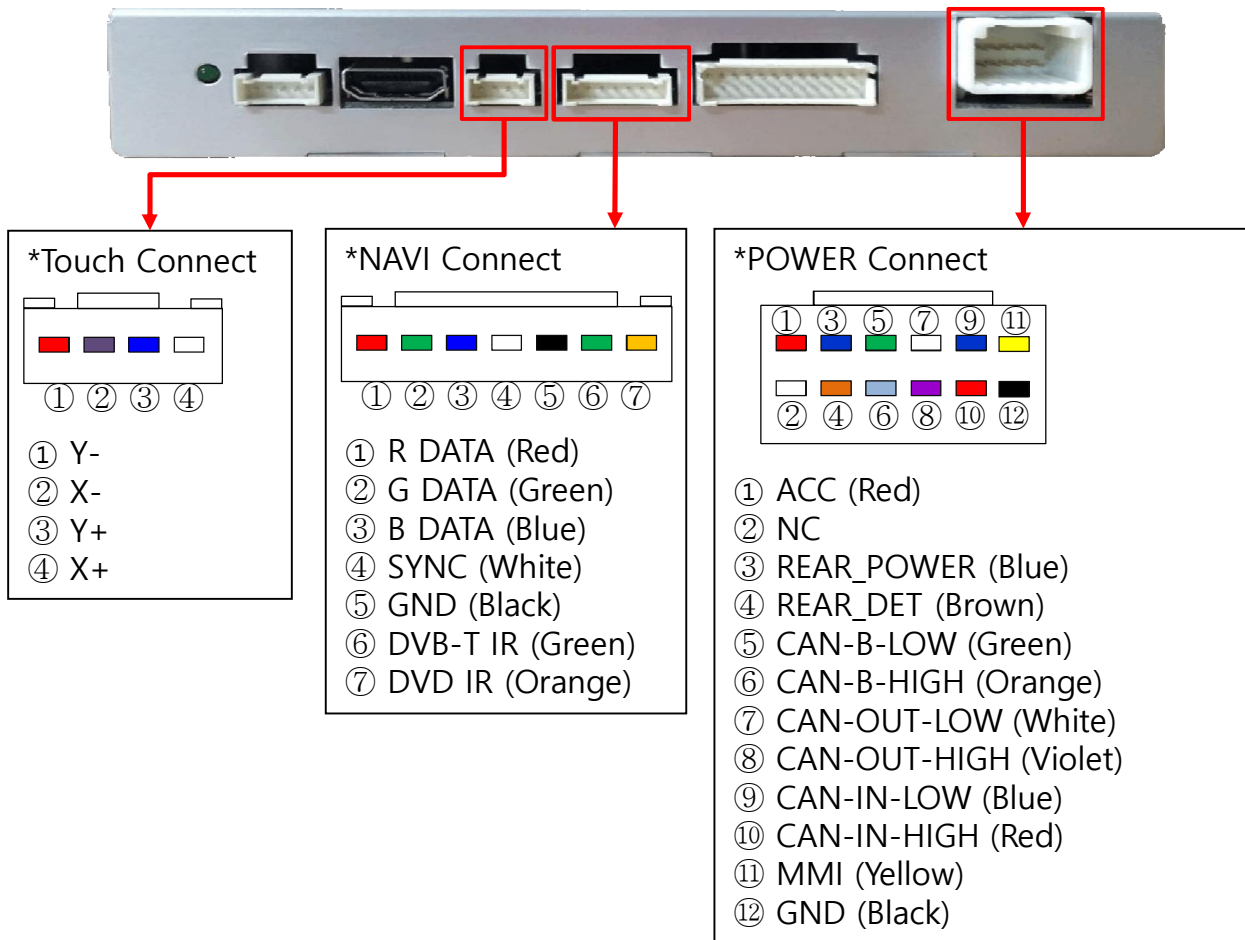
4. External Appearance



4. External Appearance



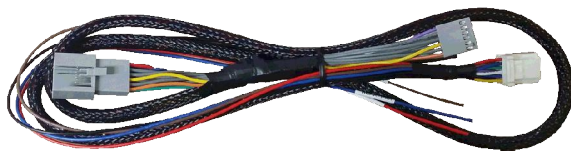
5. Connector Pin Assignment



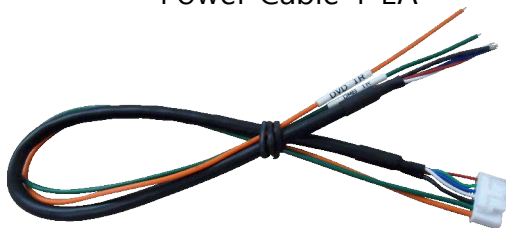
6. Product Composition



Interface 1 EA



Power Cable 1 EA



RGB NAVI Cable(7pin) 1 EA



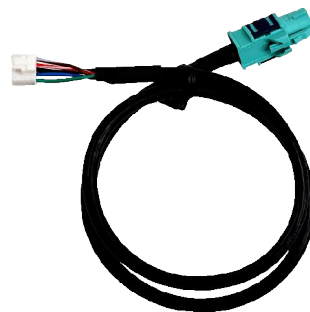
Touch convertor Cable(KD-900) 1 EA



A/V Cable (24pin) 1 EA



OSD Board 1 EA



LVDS Cable 1 EA

6. Product Composition

* CarPlay Set Sales(option) – KPLAY



Interface 1 EA



AUX Cable 1 EA



Power Cable 1 EA



HDMI Cable 1 EA



Bluetooth / Wifi Antenna 2EA



Microphone 1 EA

6. Product Composition

* CarPlay(NV17) Set Sales(option)



CarPlay Main 1 EA



AUX Cable 1 EA



Power Cable 1 EA



HDMI Cable 1 EA



Microphone 1 EA

7. DIP S/W Setting

* ON : DOWN , OFF : UP

PIN	FUNCTION	DIP S/W Selection
1	NAVI	ON : Not Used OFF : Used
2	DVB-T(AV1)	ON : Not Used OFF : Used
3	DVD(AV2)	ON : Not Used OFF : Used
4	N.C	
5	CAR type SEL	Right Picture
6		
7		
8		

* DIP S/W Example



Audi_A3_5.8"



Audi_A3_7.0"



Audi_A4/Q7_7.0"



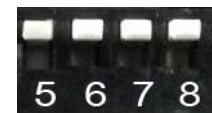
Audi_A6_8.0"



Audi_TT_12.0"



Audi_Q2_2017year_7.0"



Volkswagen_Golf_5.8"



Volkswagen_Polo_6.5"



Volkswagen_Golf_6.5"



Volkswagen_Golf_8.0"



Volkswagen_Tiguan_8.0"



Bentley_Mulsanne_2017year_8.0"



Porsche PCM4.0 2016_7.0"



Bentley_Mulsanne_2018year_8.0"



Bentley_Bentayga_2018year_8.0"

8. Mode Change

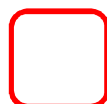
Mode Change SteeringWheel for Audi A3/A6/A7/Q7/TT



MENU	Option / SteeringWheelBtn	NAVI
Config	SteeringWheelBtn	MODE NAV OFF
Option	SteeringChannel	Off
Image	Camera	Rear
Screen	Reset	Execute Cancel
Parking		

- To use the Steering button You must select the "MODE" or "NAV" button in the menu.
- Select "OFF" when not in use.

Mode Change MMI Button for Audi A3/A6/A7/Q7/TT



mode change(1 second)



Return OEM display



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8. Mode Change

Mode Change SteeringWheel for Volkswagen Golf7/Polo



- To use the Steering button You must select the "MUTE" or "DOWN" button in the menu.
- Select "OFF" when not in use.

MENU	Option / SteeringWheelBtn	NAVI
Config	SteeringWheelBtn	MUTE DOWN OFF
Option	SteeringChannel	Off
Image	Camera	Rear
Screen	Reset	Execute Cancel
Parking		

Mode Change Button for Volkswagen Golf7/Polo



 mode change(1 second)

 Return OEM display

8. Mode Change

Mode Change Button for Volkswagen Golf7/Polo



-  mode change(1 second)
-  Return OEM display
-  3 second OEM display

MENU	Option / ScrChg-Wheel		NAVI
Config	UI DVD	On	
Option	Camera	Off	
Image	ScrChg-Wheel	On	Off
Screen	Reset	Execute	Cancel
Parking			

- Turn the button to show the oem screen for 3 seconds

8. Mode Change

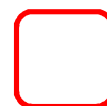
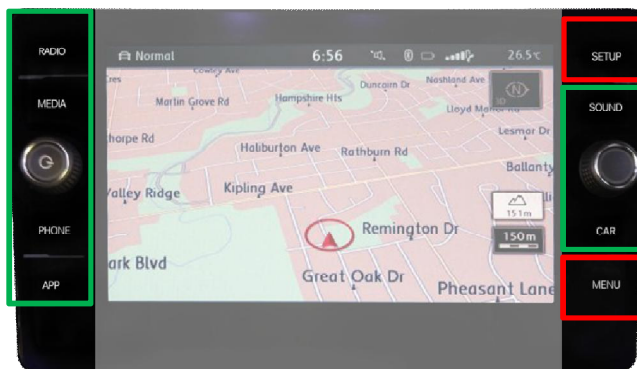
Mode Change SteeringWheel for Volkswagen Tiguan



MENU	Option / SteeringWheelBtn	NAVI
Config	SteeringWheelBtn	MUTE DOWN OFF
Option	SteeringChannel	Off
Image	Camera	Rear
Screen	Reset	Execute Cancel
Parking		

- To use the Steering button You must select the "DOWN" button in the menu.
- Select "OFF" when not in use.

Mode Change Button for Volkswagen Tiguan



mode change(1 second)



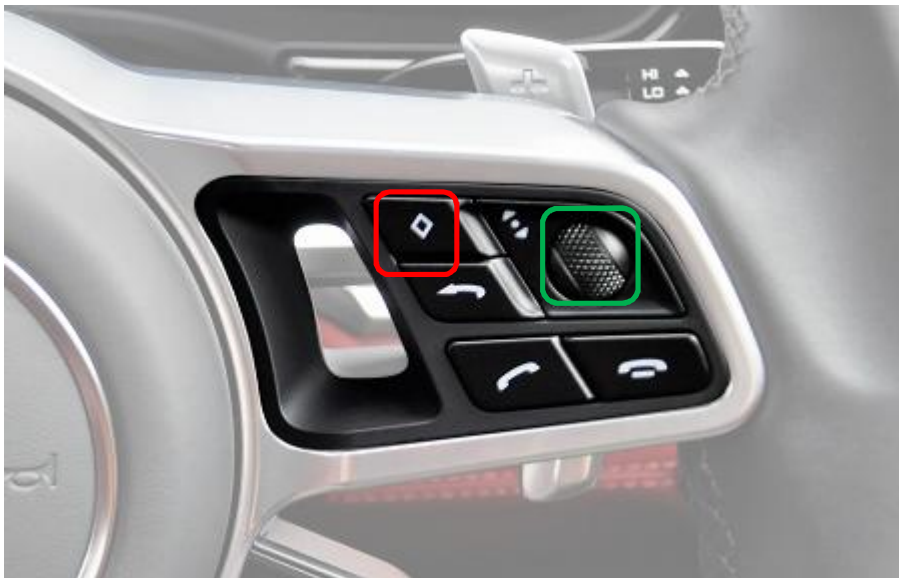
Return OEM display

MENU	Option / Deck Button	NAVI
Config	FrontCam-Power	Auto
Option	FrontCam-Det	ExtWire
Image	FrontCam-RcvOpt	0s
Screen	AV Out	USER
Parking	Deck Button	Menu Setup

- To use the Deck button You must select the "Menu" or "Setup" button in the menu.

8. Mode Change

Mode Change StreeingWheel for Porsche PCM4.0



MENU	Option / SteeringWheelBtn	NAVI
Config	AV Out	USER
Option	Deck Button	Setup
Image	SteeringWheelBtn	ON OFF
Screen	SteeringChannel	Off
Parking	UI DVB-T(DMB)	On

- To use the Streeing button You must select the "ON" in the menu.
- Select "OFF" when not in use.

 mode change(1 second)

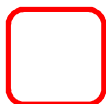
MENU	Option / SteeringChannel	NAVI
Config	AV Out	USER
Option	Deck Button	Setup
Image	SteeringWheelBtn	OFF
Screen	SteeringChannel	On Off
Parking	UI DVB-T(DMB)	On

- To use the Streeing button You must select the "ON" in the menu.
- Select "OFF" when not in use.

 DVB-T channel up/down in the DVB-T mode.

8. Mode Change

Mode Change Button for Porsche PCM4.0



mode change(1 second)



Return OEM display



3 second OEM display

MENU	Option / ScrChg-Wheel	NAVI
Config	UI DVD	On
Option	Camera	Off
Image	ScrChg-Wheel	On Off
Screen	Reset	Execute Cancel
Parking		

- Turn the button to show the oem screen for 3 seconds

8. Mode Change

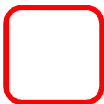
Mode Change for Bentley Mulsanne 2017



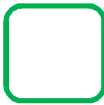
- ☐ mode change(1 second)
- ☐ Return OEM display

8. Mode Change

Mode Change for Bentley Bentayga



mode change(1 second)



Return OEM dispaly



3 second OEM dispaly

MENU	Option / ScrChg-Wheel	NAVI	
Config	UI DVD	On	
Option	Camera	Off	
Image	ScrChg-Wheel	On	Off
Screen	Reset	Execute	Cancel
Parking			

- Turn the button to show the oem screen for 3 seconds



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8. Mode Change

CarPlay Button for Audi A3/TT



- ① PUSH : Selection
- ② Moving toward the left
- ③ Moving toward the right
- ④ Moving toward the left
- ⑤ Moving toward the right
- ⑥ Moving up
- ⑦ Moving down
- ⑧ Return
- ⑨ Siri
- ⑩ Track Down
- ⑪ Track Up

9. Touch Control

Touch control - Calibration

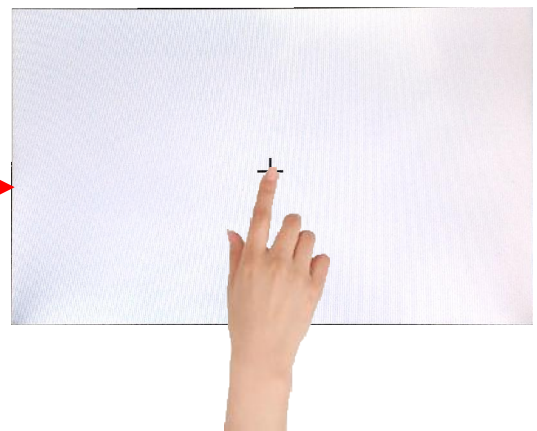


Press and hold for more than 11 seconds on NAVI, DVB-T, DVD screen.
(Note that it only works the first time after switching screens)

OR

MENU	Calibration	NAVI
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Calibration	Execute Cancel
Utility	Version	FDSHOOKRX-180112

OSD menu -> Utility -> Calibration



+ Touch according to the shape coordinates.

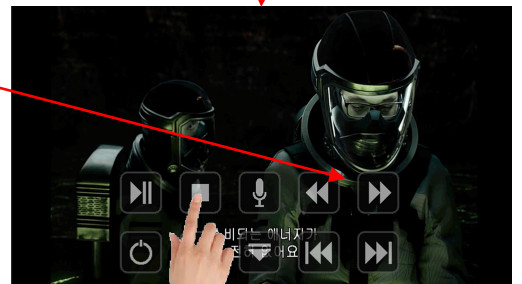
9. Touch Control

DVB-T/DVD Control

DVB-T



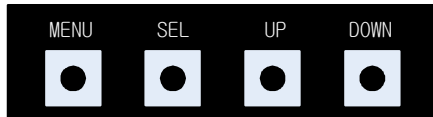
DVD



Press Icon

10. OSD(On Screen Display) Control

OSD control



MENU	Press to display when there is no OSD screen. When OSD screen is on, press it to EXIT or OFF.
SEL	Item Selection, Value Selection
UP	Item up Increase selected value
DOWN	Item down Decrease selected value

Mode State		
MENU	Option	
Config	RearCam-Type	ExtDevice
Option	RearCam-Power	Auto
Image	RearCam-Det	GEAR
Screen	AV Mode	Off
Parking	FrontCam-Type	ExtDevice
First Menu	Second Menu	Third Menu

10. OSD(On Screen Display) Control

OSD Config

First Menu	Second Menu	Third Menu	Description
Config	NAVI-RGB	DIGITAL-INAVI :	Setting the Connected NAVI Model
	DVB-T(DMB)	ELT_DVBT20 :	Setting the Connected DVB-T Model
	DVD	ELT_980XU Slim :	Setting the Connected DVD Model
	RearCam	AVM VIDEO :	Setting the Connected RearCam Model
	Reset	Execute	Reset to default value of Config menu

MENU	Config NAVI	
Config	NAVI-RGB	DIGITAL-INAVI
Option	DVB-T(DMB)	ELT_DVBT20
Image	DVD	ELT-980XU Slim
Screen	Reset	Execute Cancel
Parking		

10. OSD(On Screen Display) Control

OSD - Option Menu

First Menu	Second Menu	Third Menu	Description
Option	NAVI COM	HMS FINE :	Set up manufacturer of woodworking device for UART Touch use
		OFF	Do not use features.
	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-RcvOpt	ON	After RearCam shows FrontCam and returns to previous state
		OFF	Disable feature
	AV Out	AV1	In the OEM, NAVI, AV1, FRONT, and REAR modes, the output of AV OUT is set to AV1.
		AV2	In the OEM, NAVI, AV2, FRONT, and REAR modes, the output of AV OUT is set to AV2.
		USER	In the OEM, NAVI, FRONT, and REAR modes, output the output of AV OUT to the final screen.



10. OSD(On Screen Display) Control

OSD - Option Menu

First Menu	Second Menu	Third Menu	Description
Option	Deck Button	MENU	"MENU" Switching screen by using Screen button
		SETUP	"SETUP" Switching screen by using Screen button
	SteeringWheel Btn	MODE	"Mode" Switching screen by using Steering wheel button
		NAV	"Nav" Switching screen by using Steering wheel button
		OFF	Do not use features.
	Steering Channel	ON	Use DVB-T Channel Up / Down with Steering wheel button
		OFF	Do not use features.
	UI DVB-T (DMB)	ON	DVB-T device control UI output function
		OFF	Disable feature
	UI DVD	ON	DVD device control UI output function
		OFF	Disable feature
	Camera	On	Video(CVBS) Input Hardware Port - Front
		Off	Disable feature
	ScrChg-Wheel	On	Turn the button to show the oem screen for 3 seconds
		Off	Disable feature
	Reset	Execute	Option Menu all Reset

10. OSD(On Screen Display) Control

Rear Detect control

MENU	Option / RearCam-Det	REAR
Config	RearCam-Type	ExtDevice
Option	RearCam-Power	Auto
Image	RearCam-Det	PDC GEAR ExtWire
Screen	FrontCam-Type	ExtDevice
Parking	FrontCam-Power	Auto



Car Audio Box Button



MENU	Option / RearCam-Det	REAR
Config	RearCam-Type	ExtDevice
Option	RearCam-Power	Auto
Image	RearCam-Det	PDC GEAR ExtWire
Screen	FrontCam-Type	ExtDevice
Parking	FrontCam-Power	Auto



Gear



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10. OSD(On Screen Display) Control

OSD Option -> FrontCam-RcvOpt

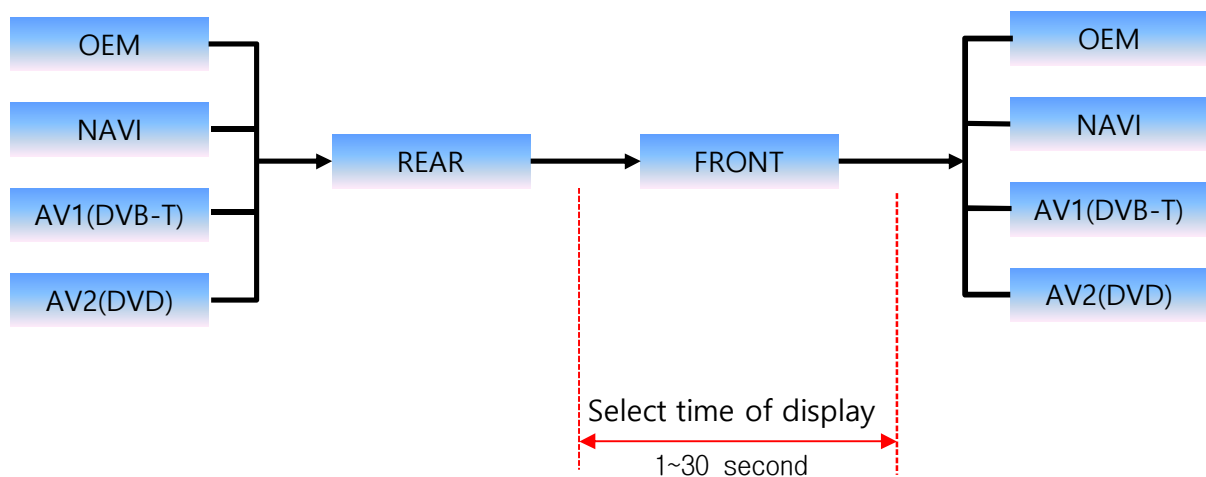
Front Camera Auto Mode

0 second = FrontCam-RcvOpt menu OFF

1~30 second = FrontCam-RcvOpt menu ON & time control

MENU	FrontCam-RcvOpt		NAVI
Config	FrontCam-Power	Auto	
Option	FrontCam-Det	ExtWire	
Image	FrontCam-RcvOpt	0s	
Screen	Steering Wheel	Voice	
Parking	Reset	Execute Cancel	

MENU	FrontCam-RcvOpt		NAVI
Config	FrontCam-Power	Auto	
Option	FrontCam-Det	ExtWire	
Image	FrontCam-RcvOpt	30s	
Screen	Steering Wheel	Voice	
Parking	Reset	Execute Cancel	



10. OSD(On Screen Display) Control

NAVI-RGB menu

First Menu	Second Menu	Third Menu	Action
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Color-RED		Adjust the value of RED
	Color-GREEN		Adjust the value of GREEN
	Color-BLUE		Adjust the value of BLUE
	Reset	Excute	Option Menu all Reset

DVD,DVB-T(DMB),NAVI-AV,REAR,FRONT menu

First Menu	Second Menu	Third Menu	Action
Image	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Saturation		Adjust the value of Saturation
	Hue		Adjust the value of Hue
	Sharpness		Adjust the value of Sharpness
	Reset	Excute	Option Menu all Reset



<< Brightness >>



<< Contrast >>



<< Saturation >>



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10. OSD(On Screen Display) Control

OSD – 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

MENU	Horizontal	NAVI
Config	Horizontal	50
Option	Vertical	50
Image	Scale X Up	50
Screen	Scale X Down	50
Parking	Scale Y Up	50

10. OSD(On Screen Display) Control

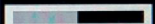
OSD – Parking Menu

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
	Grid Type	Full	Do not show OPS
		SPLIT	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

MENU	Parking / Line Display		REAR
Config	Line Display	On	Off
Option	PDC Display	On	
Image	Grid Type	Split	
Screen	Warnings Lang	English	
Parking	Horizontal	 50	

10. OSD(On Screen Display) Control

OSD Parking – OPS Display On / Off

MENU	Parking / Grid Type		REAR
Config	Line Display	On	
Option	PDC Display	On	Off
Image	Grid Type	Full	
Screen	Warnings Lang	English	
Parking	Horizontal		50



OPS ON Screen

MENU	Parking / Grid Type		REAR
Config	Line Display	On	
Option	PDC Display	On	Off
Image	Grid Type	Full	
Screen	Warnings Lang	English	
Parking	Horizontal		50



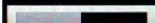
OPS OFF Screen

OSD Parking – Guide line On / Off

MENU	Parking / Line Display		REAR
Config	Line Display	On	Off
Option	PDC Display	On	
Image	Grid Type	Split	
Screen	Warnings Lang	English	
Parking	Horizontal		50



Parking Line ON Screen

MENU	Parking / Line Display		REAR
Config	Line Display	On	Off
Option	PDC Display	On	
Image	Grid Type	Split	
Screen	Warnings Lang	English	
Parking	Horizontal		50



Parking Line OFF Screen



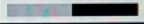
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10. OSD(On Screen Display) Control

OSD Parking – OPS Display On / Off

MENU	Parking / Grid Type		REAR
Config	Line Display	On	
Option	PDC Display	On	
Image	Grid Type	Full	Split
Screen	Warnings Lang	English	
Parking	Horizontal	 50	



MENU	Parking / Grid Type		REAR
Config	Line Display	On	
Option	PDC Display	On	
Image	Grid Type	Full	Split
Screen	Warnings Lang	English	
Parking	Horizontal	 50	



10. OSD(On Screen Display) Control

OSD Parking – Change warning language

MENU	Parking / Warnings Lang	REAR
Config	OPS Display	English
Option	Line Display	中文
Image	Warnings Lang	한국어
Screen	Horizontal	台灣
Parking	Vertical	Р о с с и я

English

Check entire surroundings!

中文

请注意车辆周围环境!

한국어

차량 주변을 전부 확인

台灣

請注意車輛周圍環境!

Р о с с и я

Следите за всем окружением автомобиля!

日本

周辺の安全を確認



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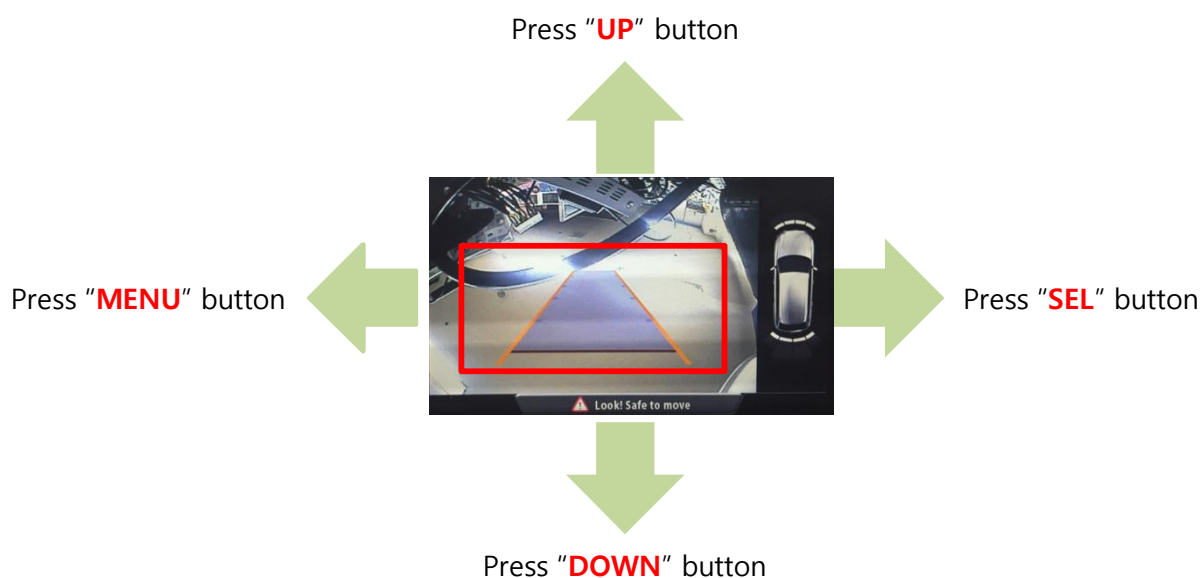
10. OSD(On Screen Display) Control

OSD Parking – Adjust position of parking guide line

MENU	Parking	REAR
Config	OPS Display	Off
Option	Line Display	On
Image	Warnings Lang	English
Screen	Horizontal	50
Parking	Vertical	50

Possible to adjust the position of parking guide line
by Keypad in Horizontal / Vertical menu

※ Pressing this Horizontal / Vertical menu,
The OSD screen automatically disappears.
Please adjust from the parking line Screen.



10. OSD(On Screen Display) Control

OSD – 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

MENU	Horizontal DVB-T	
OSD	Horizontal	 50
IR-Ctrl	Vertical	 50
Utility	Display Time	 10s
	Transparency	 30
	Language	English
MENU	Reset DVB-T	
OSD	Reset	Execute Cancel
IR-Ctrl		
Utility		

10. OSD(On Screen Display) Control

OSD – IR learning function



* In order to work with the IR learning function, a separate IR cable is required.

MENU	IR-Ctrl / DVB-T(DMB)	NAVI
OSD	DVB-T(DMB)	Sel Learn Cancel
IR-Ctrl	DVD	Sys
Utility		

1. In DVB-T / DVD menu, select User in Sys (OSD list) or User (learned contents).
2. Select Learn from the OSD menu.



MENU	IR-Ctrl / DVB-T(DMB)	NAVI
OSD	All-Clear	
IR-Ctrl	POWER	----
Utility	SCAN	----
	CH+	----
	CH-	----

3. Before using IR learning function, select All-Clear to delete existing stored data.



MENU	IR-Ctrl / DVB-T(DMB)	DVB-T
OSD	New Code:	
IR-Ctrl	Cfm Code:	
Utility	Save	Clr Cancel

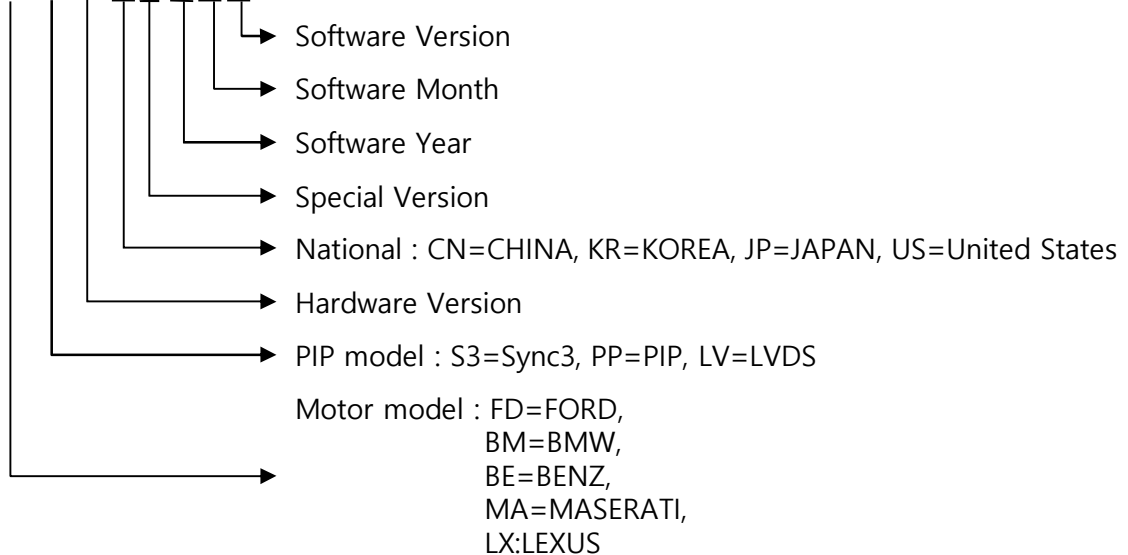
4. Press the remote control button to be used in each ICON once in New Code, press once again in Cfm Code to confirm it is the same and save it.

10. OSD(On Screen Display) Control

OSD – Utility Menu

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

Last Source : FDSYOOKRX-180209



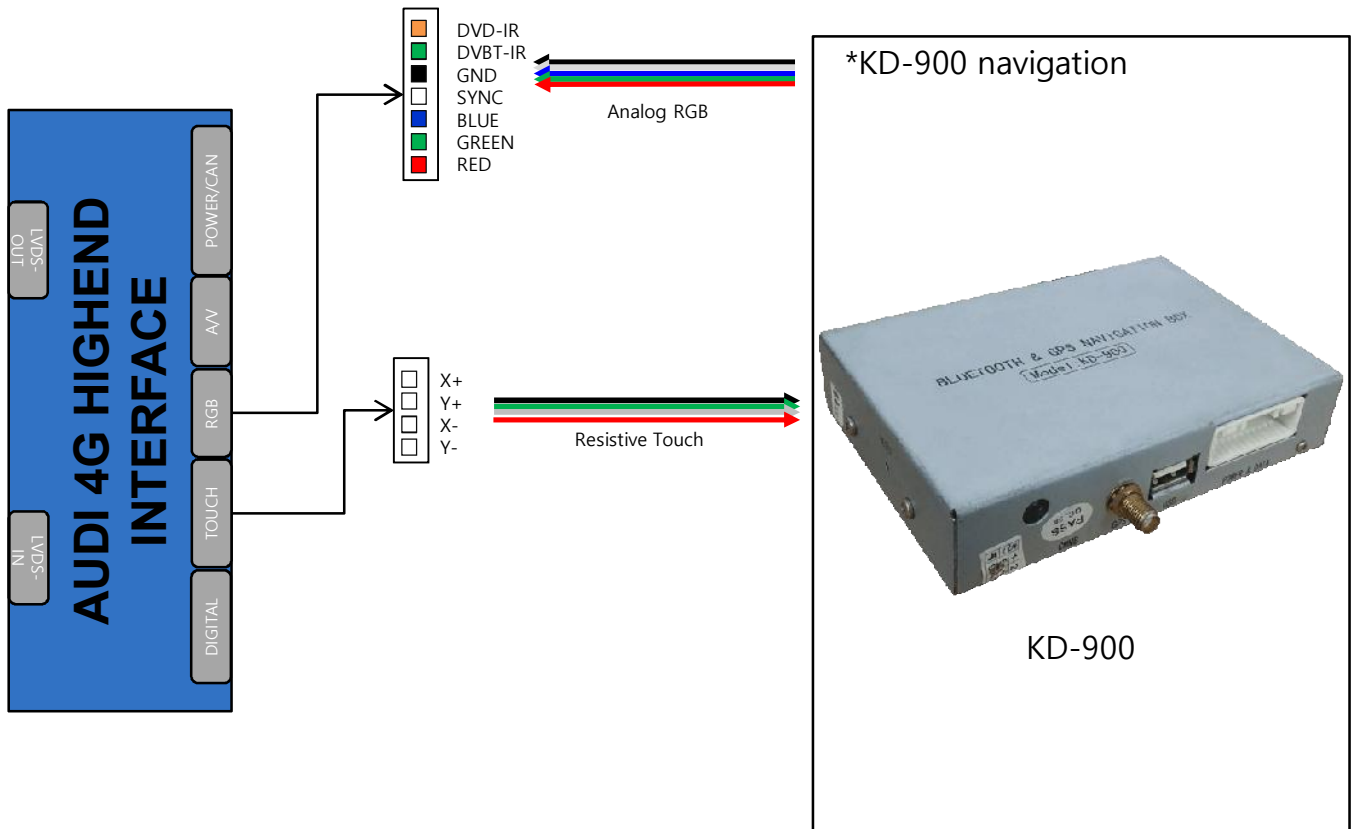
MENU	Utility	NAVI
OSD	Factory Reset	Execute Cancel
IR-Ctrl	Version	FDSYOOKRX-180209
Utility		



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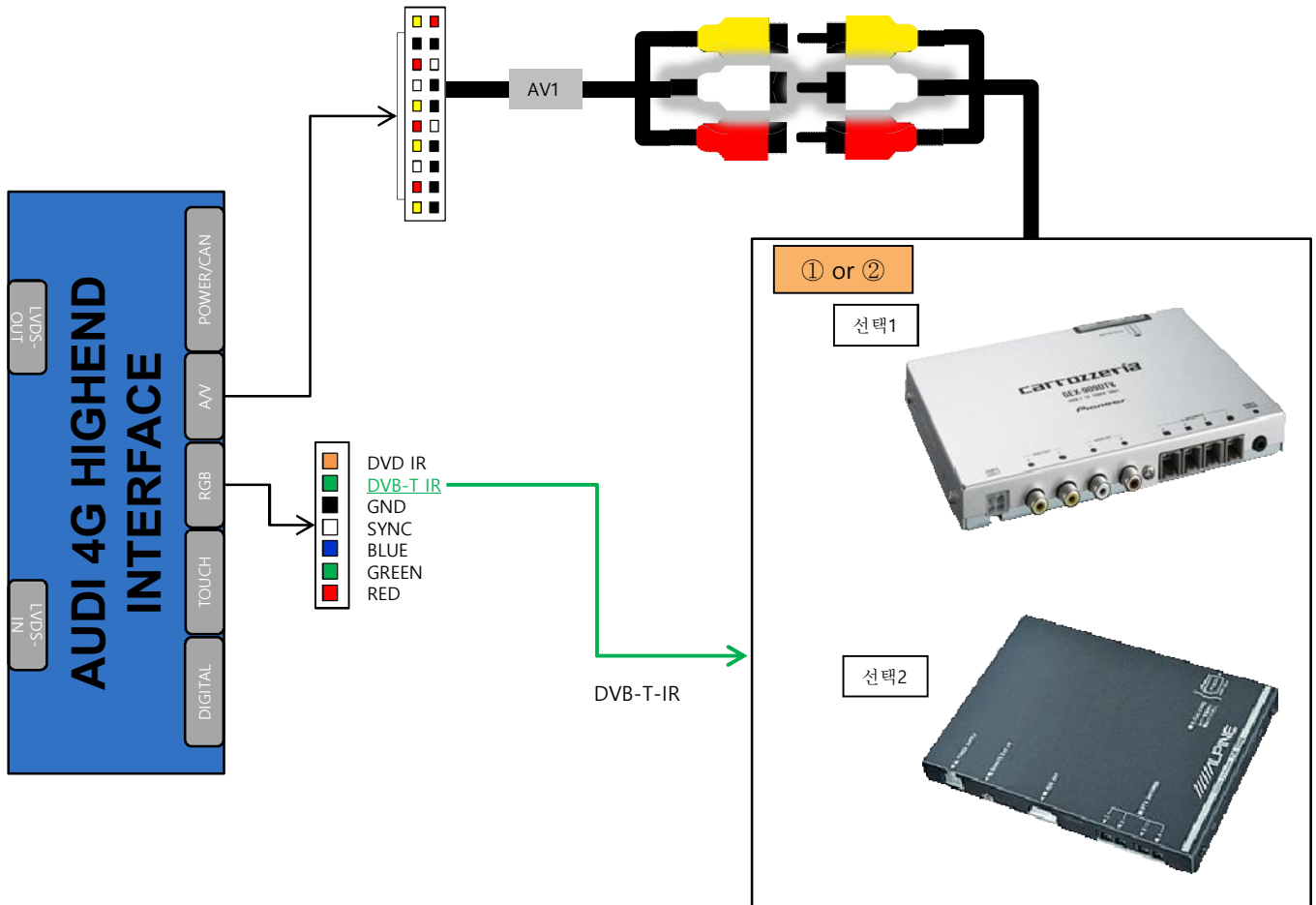
11. Install Manual

1. Installation Navigation Connection



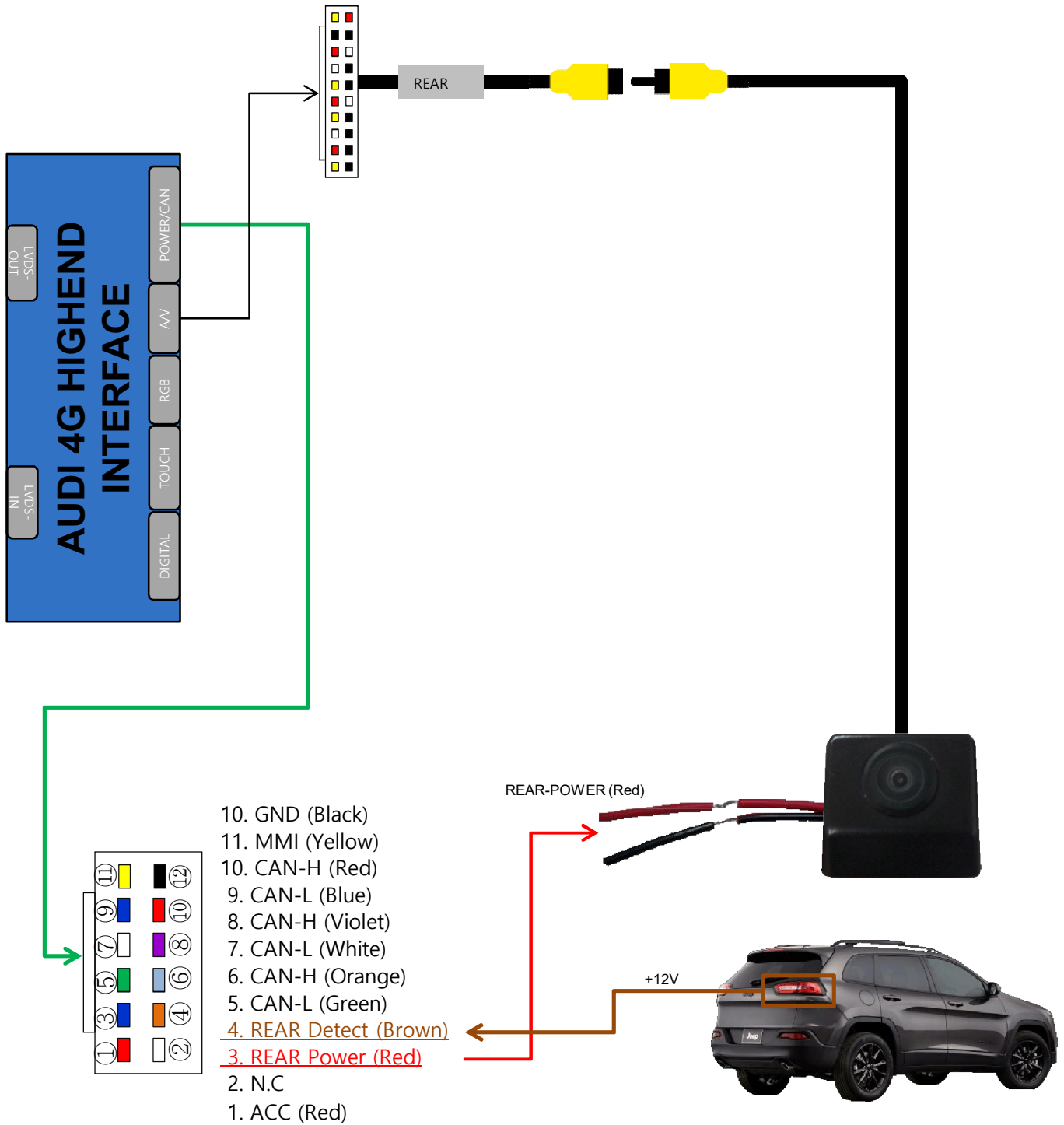
11. Install Manual

2. Installation DVB-T Remote Control Connection



11. Install Manual

4. Installation External Reverse(Rear) Camera Connection

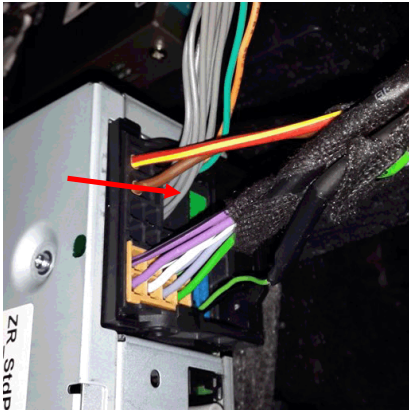


Must be gray
Do not use blue, green

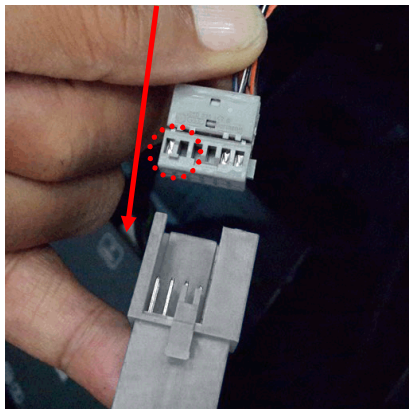
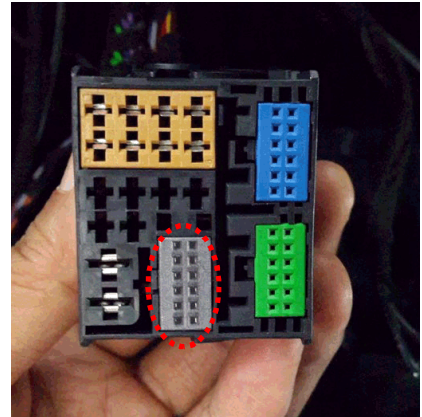


11. Install Manual

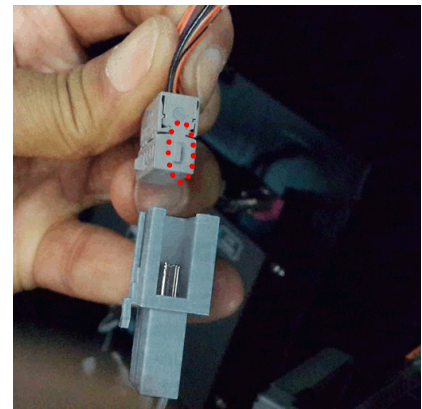
6. Installation CAN connection



Remove the original gray connector.



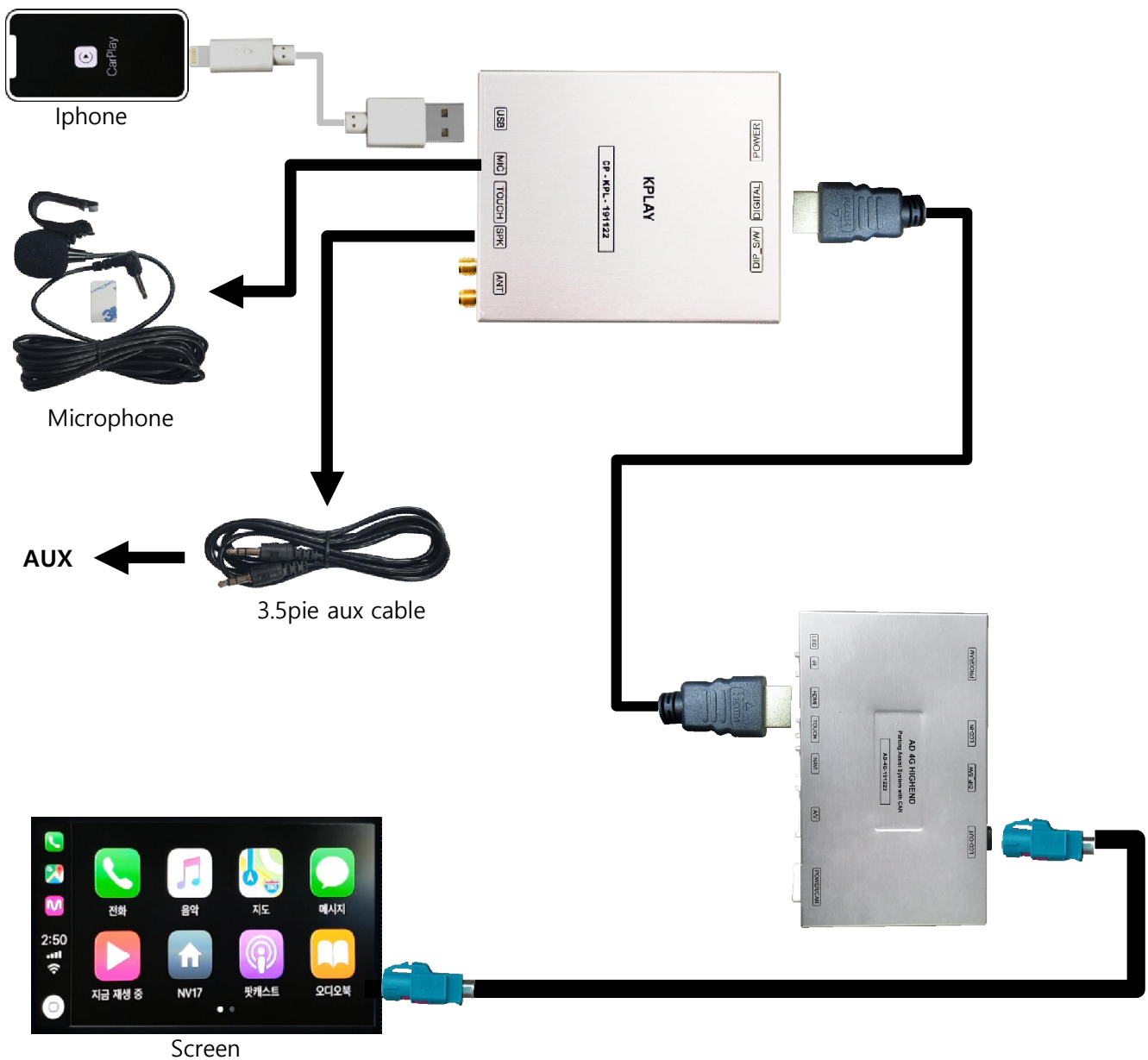
Attach the connector carefully to the locking part.



11. Install Manual

7. Installation CarPlay - KPLAY

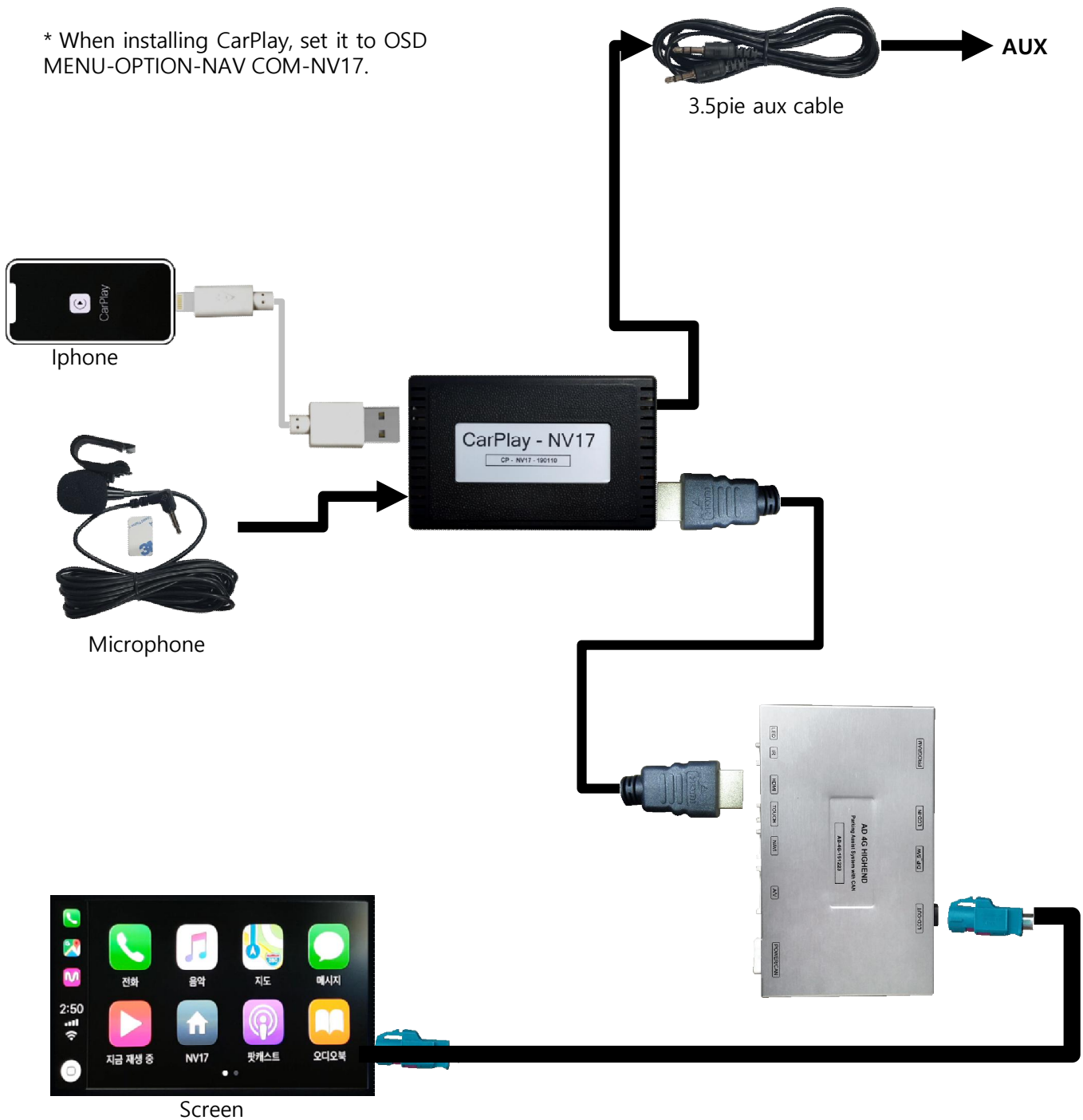
* When installing CarPlay, set it to OSD
MENU-OPTION-NAV COM-KPLAY.



11. Install Manual

8. Installation CarPlay – NV17

* When installing CarPlay, set it to OSD MENU-OPTION-NAV COM-NV17.



12. Q & A

FAQ

1. Not possible to switch mode
 - Check connection of OSD Key pad wire
 - Check CAN connection
2. Display wrong size of picture
 - Check Dip s/w setting
3. Display black screen in OEM mode
 - Check connection of LVDS/LCD cable
4. Not possible to switch to rear screen
 - Check the packing setting (OSD Menu – option – RearCam-Det)

Caution

1. The device must not be installed in where it interferes driving
(close to brake pedal, steering wheel, airbag etc.)
2. LVDS cable must be connected correctly according to the manual
3. Insulate the end of wire by using electrical tape
4. The installation should be done by expert
5. GU electronic does not take any responsibility for any problem caused by wrong installation
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