

Instruction Manual

MB 2015-PAS-TDC2 with PAS for Mercedes Benz



GU ELECTRONIC

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Specification

1. Main spec.

1-1 Input Spec. (MULTI VIDEO INTERFACE)

- 1 x Analog RGB Input (Navigation System output)
- 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)
- 1 x Digital RGB Input
- 1 x Capacitive Touch Input

1-2 Output Spec.

- 1 x LCD Output (LCD Operation)
- 1 x Resistive Touch Output

1-3 Power Spec.

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

1-4 Switch Input mode

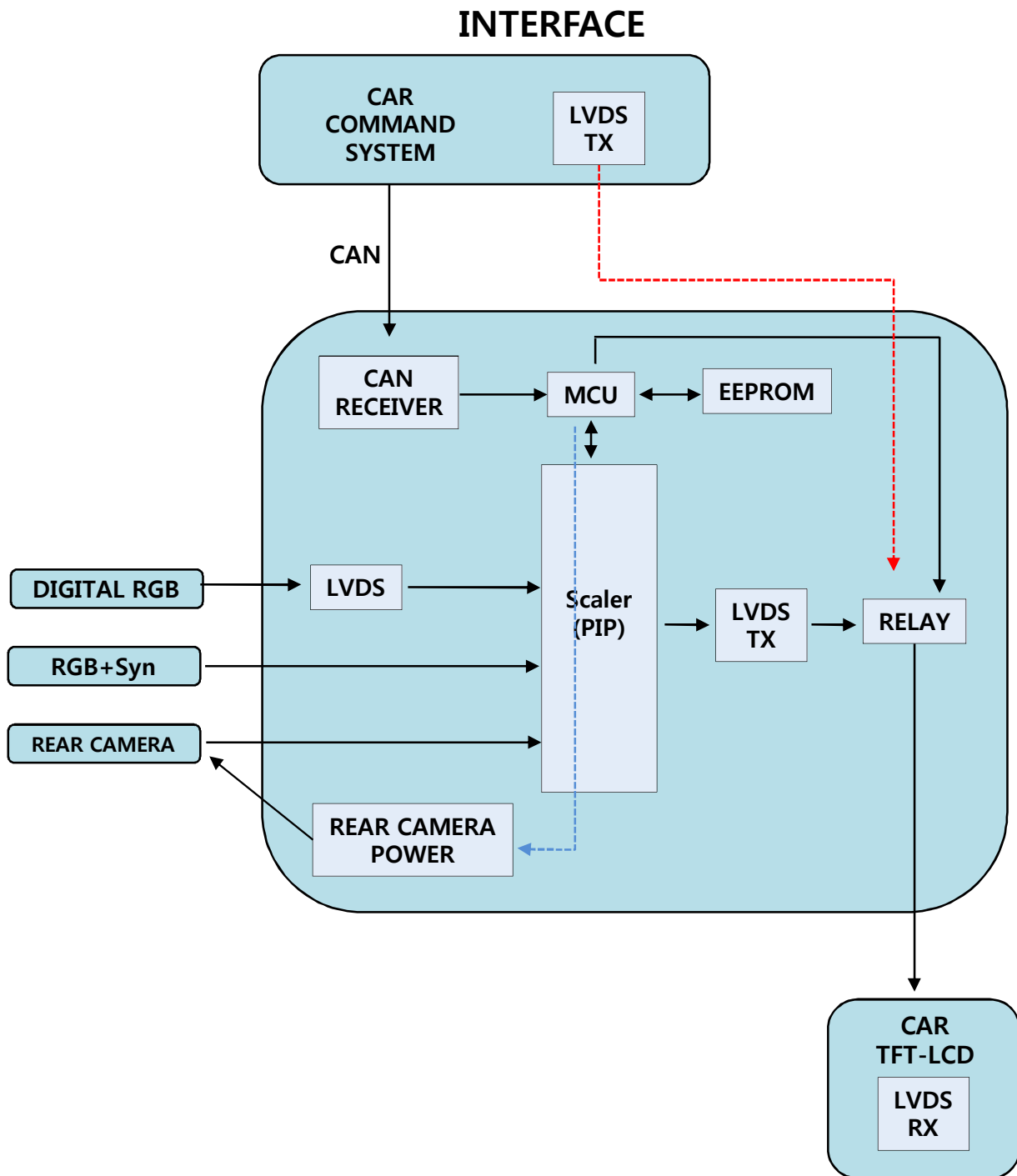
- Possible to switch input mode through original button

2. Features

- Possible to switch from external screen to OEM Phone mode screen automatically when phone rings
- The external video input will be blocked while driving
- Possible to register IR code of DVD/DTV
- Easy installation with Plug&Play power/LVDS cable
- Display dynamic PAS(Parking assistance system) with PDC
- Capacitive touch screen with frame

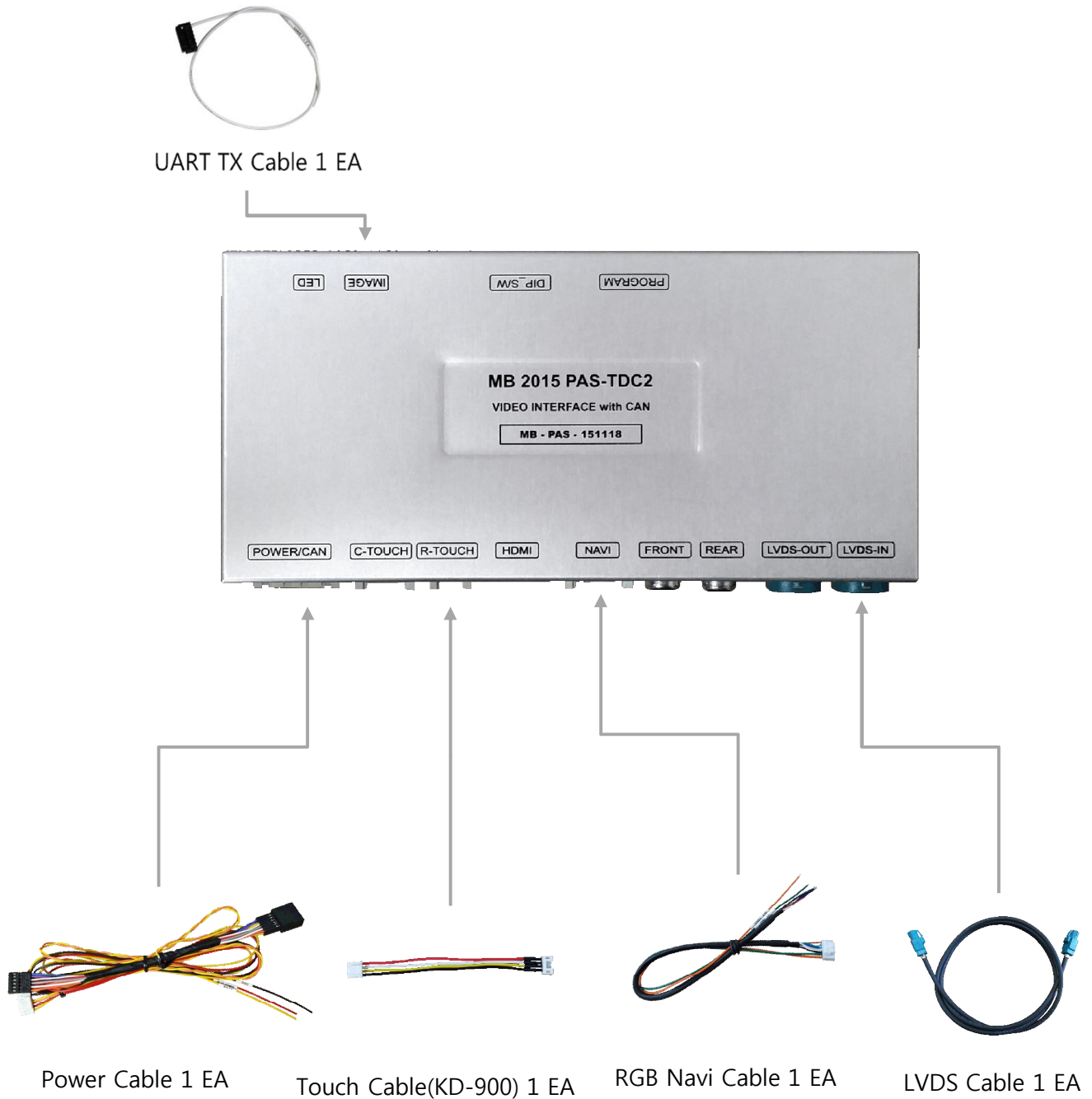
Specification

3. Diagram



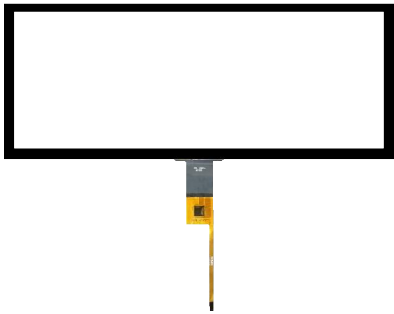
Specification

4. Components



Specification

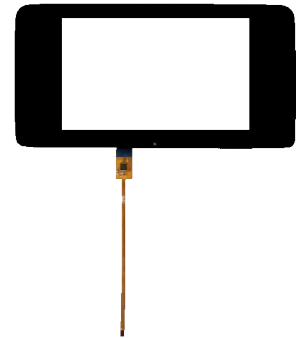
4. Components (Option)



S 12.2"
Capacitive Touch Screen



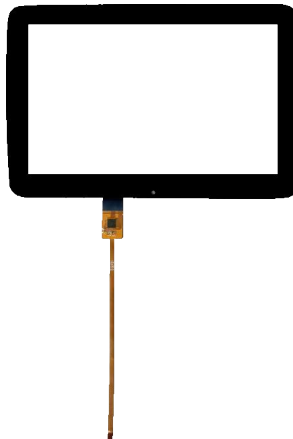
GLC/C 8.4"
Capacitive Touch Screen



CLS 8.0"
Capacitive Touch Screen



CLA/B 7.0"
Capacitive Touch Screen



GLA/CLA 8.0"
Capacitive Touch Screen



E 7.0"
Capacitive Touch Screen



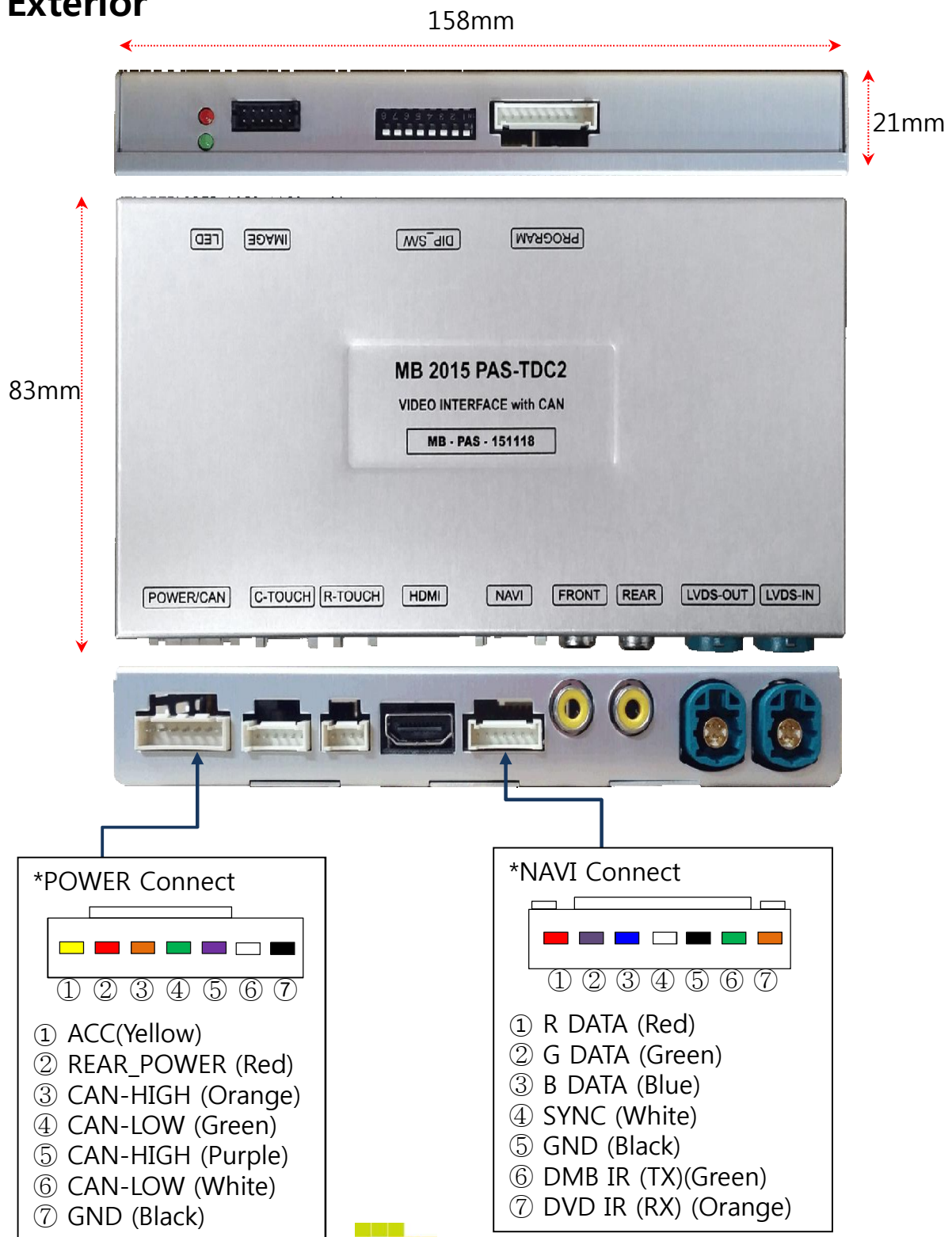
Touch Cable



Touch Board

Specification

5. Exterior



Settings

1. Dip Switch

* ON : DOWN , OFF : UP

NO.	Function	Selection
1	NAVI	ON : Skipping NAVI OFF : Display
2	DVB-T(AV1)	ON : Skipping DVB-T OFF : Display
3	DVD(AV2)	ON : Skipping DVD OFF : Display
4	N.C	
5	Rear Camera	Page. 9
6	Car model	ON : B,E,CLA,CLS,GLE 7", 8", 12"split view
7		ON : S 12", 12" Split view
8		ON : S 12", 12 Split view, C 8.4"

* Example



C class 8.4"Model



E/B/CLA/CLS/GLE class
7"/8"Model



S class 12"Model



S class 12"split view



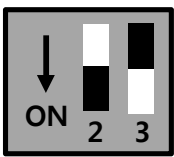
C/GLC class 7"Model
Aston martin vantage2018

Settings

1. Dip Switch- DVB-T, DVD Setting

※ The "Front input" can be used for DVD or DTV input (AV1 : DTV, AV2: DVD – Possible to install only one of them)

- AV1 Setting – For DTV



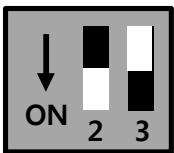
No.2: Off / No.3: On

DVB-T UI On/Off (Refer to P15)

(Dip no.3 should be ON (Skip) Otherwise AV2 screen will appear)



- AV2 Setting – For DVD



No.2: On / No.3: Off

DVD UI On/Off (Refer to P15)

(Dip no.2 should be ON (Skip) Otherwise AV1 screen will appear)



Settings

2. Parking → Drive setting

- Setting time to display screen when changing gear from P to N or D



: Dip S/W No.5 "OFF"



Rear Mode



After 15sec. in N gear

OR



After driving up 10km



Display

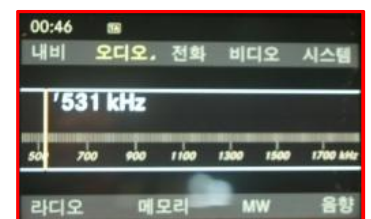


: Dip S/W No.5 "ON"



Rear Mode

Right after changing gear

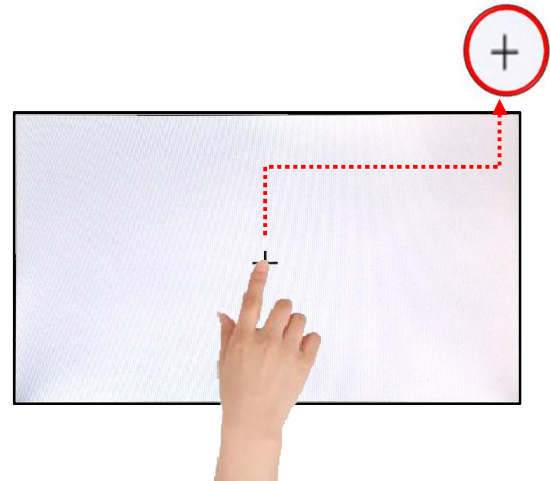


Display

Settings

3. Touch Control

- Touch calibration



Touch OEM screen in any mode more than 7sec. For calibration
(This function can be activated only one time after switching mode)

Touch the "+" correctly

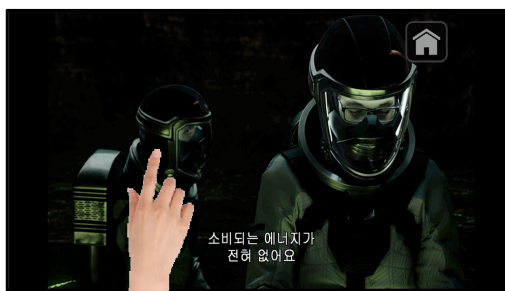
- DVB-T/DVD Control

Press Touch (Anywhere)

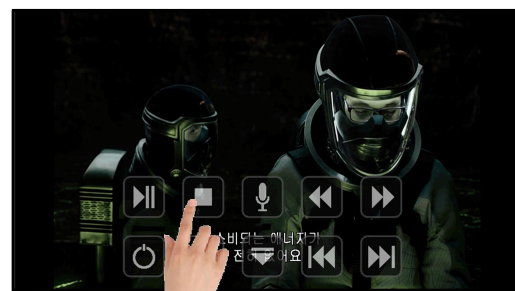


DVB-T
DAB-I

Press Icon



DVD
DAB-I



Settings

4. Original button

- Switching mode

C- CLASS



<Steering wheel>



<Jog shuttle>

S- CLASS



<Steering wheel>



<Jog shuttle>

 / **NAVI** :

1. Long Press: Switching mode
2. Short Press: Switching to OEM directly

Settings

4. Original button – DVB-T, DVD Menu

* Control the menu below by Original button

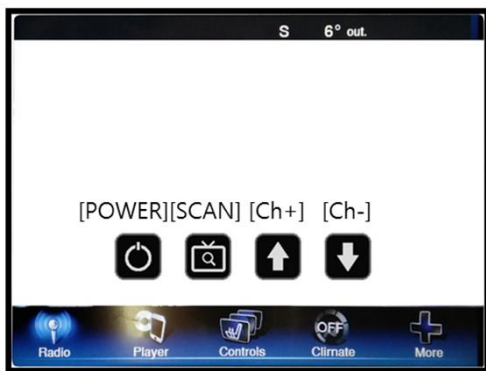


PUSH : Selection

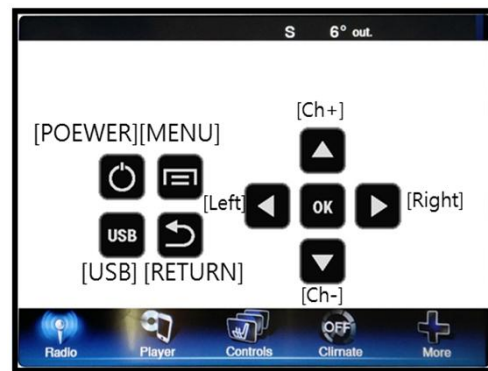
Activating DVD/DTV menu

↑ ↓ → ← : Moving to the Up, Down, Right, Left

• DTV (Select the type of I-con)

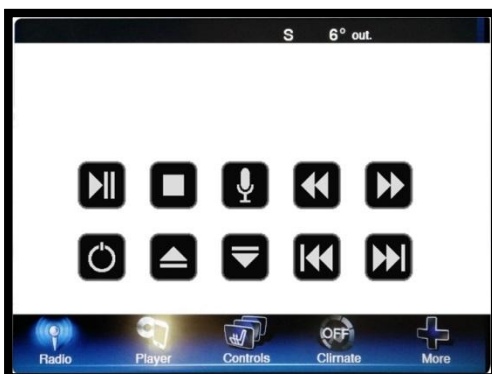


[Type -1]



[Type -2]

• DVD



	[Play/Pause]		[POWER]
	[stop]		[DISC UP]
	[Audio]		[DISC DOWN]
	[FR]		[Play next chapter]
	[FF]		[Play previous chapter]

※ To use this function, It is necessary to offer the remote IR code to manufacturer or setting OSD IR – Ctrl (P. 21)

Settings

4. Original button - OSD Menu Setting



① Long press (6sec) :Activating OSD
Short press : Exit
(※ s-class : )

② Select

③ Up, Increasing value

④ Moving from first menu to third menu in order

⑤ Down, Decreasing value

⑥ Moving from Third menu to First menu in order

MENU	Config		NAVI
Config	NAVI-RGB	GI5000	
Option	DVB-T(DMB)	ELT_DVBT20	
Image	DVD	NECVOX DVA-3206	
Screen	HDMI	iPhone	
Parking	Reset	Execute	Cancel

First Menu

Second Menu

Third Menu

← Mode State

Settings

5. OSD Menu

※ Control the menu below by Original button

MENU	Config		NAVI
Config	NAVI-RGB	HDMI	
Option	DVB-T(DMB)	ELT_DVBT20	
Image	DVD	ELT_980XU Slim	
Screen	Reset	Execute	Cancel
Parking			

Config - NAVI-RGB : Setup for the type of RGB

Config - DVB-T : Setup for the type of DVB-T

Config - DVD : Setup for the type of DVD

Reset : Reset all value

Settings

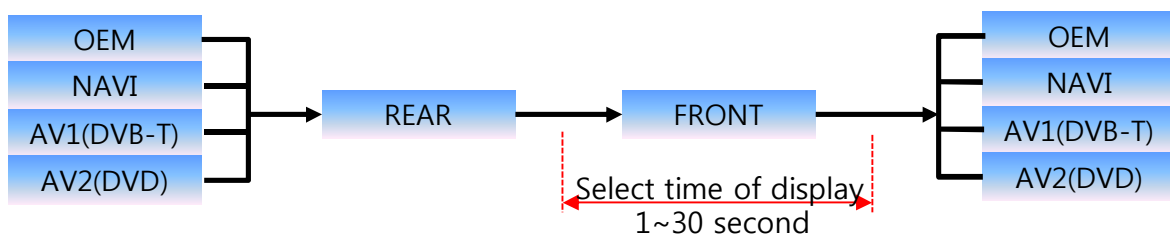
5. OSD Menu

※ Control the menu below by Original button

MENU	Option	NAVI
Config	Rear Cam - Type	ExtDevice
Option	Rear Cam - Power	On
Image	Rear Cam - Det	CAN
Screen	SafeMode	On Off
Parking	Rear Cam -RcvOpt	0s

Option

- RearCam- Type : Setup for rear camera
ExtDevice : External rear camera
OEM : Original camera
- RearCam- Power : Setup for Rear VCC wire in power cable
ON : +12V out always (current consumption : 200mA)
AUTO : +12V out in rear mode only (200mA)
OFF : Power OFF
- RearCam- Det : Setup for Rear detection
CAN : By CAN
Extwire : by rear cam detect wire
- SafeMode : The external video input will be blocked while driving
(It is necessary to select car model – refer to next page)
ON – ON
OFF – OFF
- RearCam-RcvOpt : The time of displaying front camera



Settings

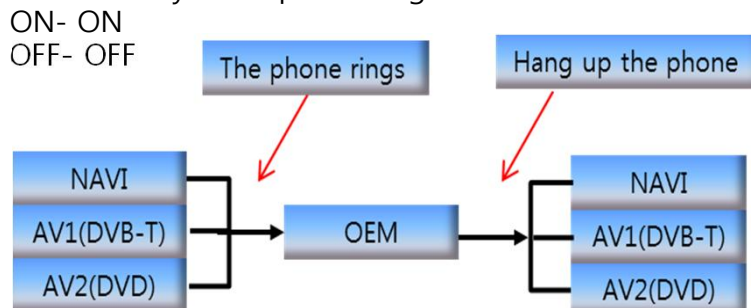
5. OSD Menu

※ Control the menu below by Original button

MENU	Option	NAVI
Config	ScrChg-Call	On
Option	PBrake ID	NTG5.0 NTG5.1
Image	NAV COM	QROI
Screen	Reset	Execute Cancel
Parking		

Option

- ScrChg-Call : Setup for switching from external screen to OEM Phone mode screen automatically when phone rings



- PBrake ID : Set up car model for using 'Safe Mode'
NTG5.0- NTG5.0 ex) S, C-class
NTG5.1- NTG5.1 ex) E, G, B, A-class
- NAVI COM : Connect touch through UART
(Feature : Possible to implement Zoom IN/OUT in Navi screen)
※ 1) Necessary to get Uart protocol from Navi manufacturer
2) Impossible to calibrate in Qroi
- Reset : Reset all value

Settings

5. OSD Menu

※ Control the menu below by Original button

- NAVI(RGB) Image / Screen

MENU	IMAGE	NAVI
Config	Brightness	50
Option	Contrast	50
Image	Color- RED	50
Screen	Color- GREEN	50
Parking	Color- BLUE	25

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

- DVD, DVBT, NAVI-AV, REAR, FRONT Image

MENU	IMAGE	Rear
Config	Brightness	50
Option	Contrast	50
Image	Saturation	50
Screen	Hue	50
Parking	Sharpness	25

Settings

5. OSD Menu - Parking mode

※ Control the menu below by Original button

-Parking guide line ON/OFF

MENU	Parking Rear	
Config	OPS Display	On
Option	Warnings Lang	English
Image	Horizontal	<input type="range"/> 50
Screen	Vertical	<input type="range"/> 50
Parking	Transparency	<input type="range"/> 40

Select a use of parking line
(OSD Menu – Parking – Line display – ON or OFF)

- Language

MENU	Parking / Warnings Lang Rear	
Config	OPS Display	English
Option	Warnings Lang	中文
Image	Horizontal	한국어
Screen	Vertical	台灣
Parking	Transparency	Р О С С И Я

Selecting a type of language
(OSD Menu – Parking – Warning lang)

-Adjusting the position of guide line

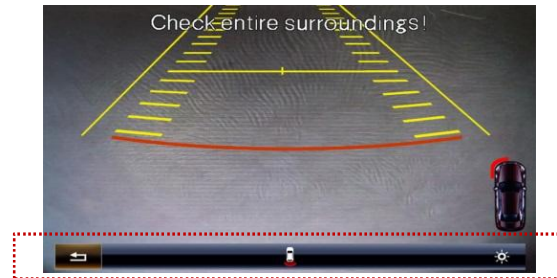
MENU	Parking Rear	
Config	OPS Display	On
Option	Warnings Lang	English
Image	Horizontal	<input type="range"/> 50
Screen	Vertical	<input type="range"/> 50
Parking	Transparency	<input type="range"/> 40

Possible to adjust the position of line
by Jog shuttle in Horizontal / Vertical menu

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



Parking line - ON



: Original mode



: PAS on/off



: Adjustment of brightness

* Can be adjusted by the Jog shuttle

Check entire surroundings!

请注意车辆周围环境!

차량 주변을 전부 확인

請注意車輛周圍環境!

Следите за всем окружением автомобиля!

周辺の安全を確認

Settings

5. OSD Menu

※ Control the menu below by Original button

- OSD

MENU	Horizontal	
OSD	Horizontal	 50
IR-Ctrl	Vertical	 50
Utility	Display	 10s
	Transparency	 30
	Language	English

- OSD – Horizontal
- OSD – Vertical
- OSD – Display : Setting time for displaying OSD menu
- OSD – Transparency
- OSD – Language : Setting language of ODS menu

- IR – Ctrl (p.21)

- Utility

MENU	Utility	
OSD	Factory Reset	Execute Cancel AD4P52KRX - 160509
IR-Ctrl	Version	
Utility		

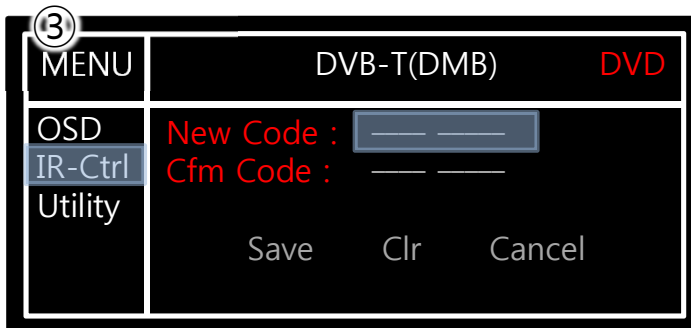
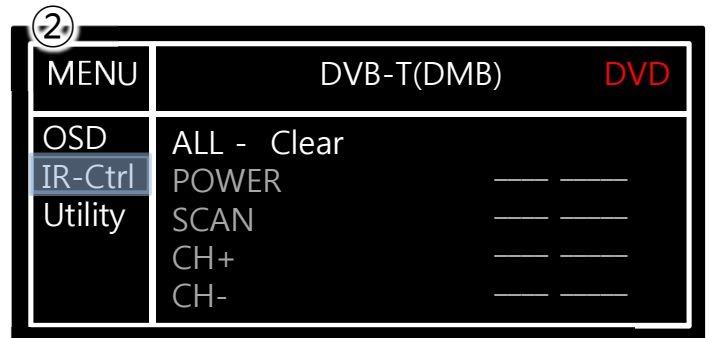
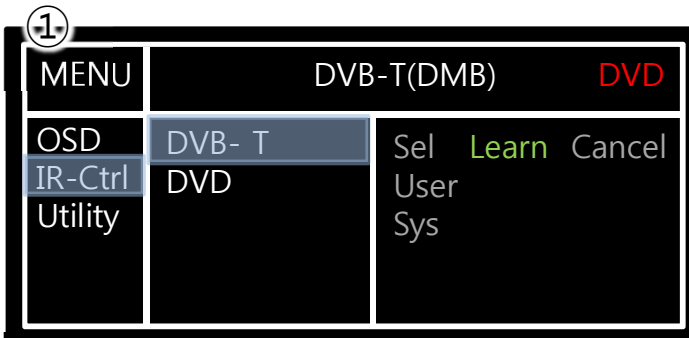
- Utility – INTERFACE SOFTWARE

Settings

5. OSD Menu – Register IR code

※ Control the menu below by Original button

- IR Ctrl

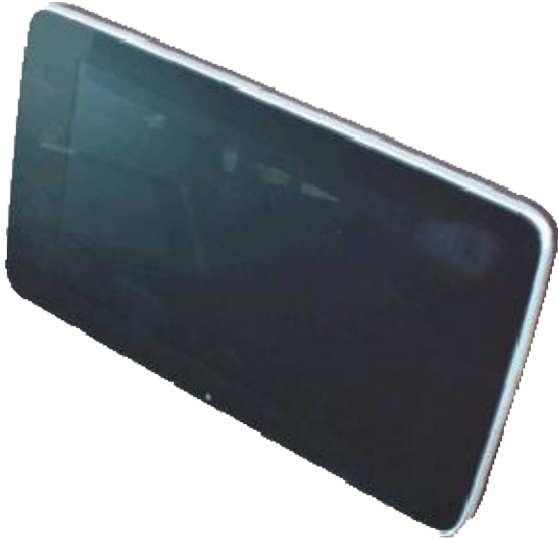


※ Caution

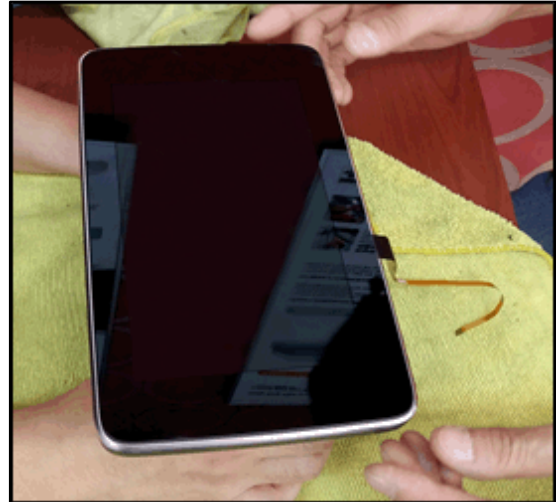
- Delete :
ALL Clear – Delete all value
Clr – Delete one button's Value
- Play/Pause:
To use  button, Please register the IR code in power / Pause menu separately

Installation

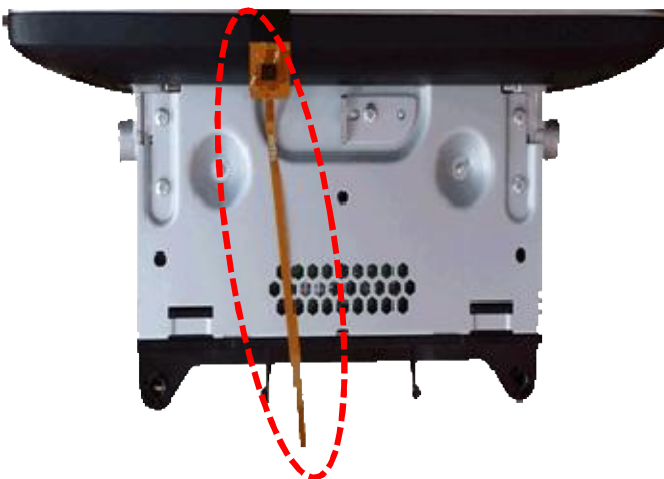
2. Touch installation – C-Class 8.4"



① Please remove the monitor from a car



② Please stick the touch screen on an OEM screen
(Make sure the sensor position before sticking)



③ Please pull out the cable through the back side of monitor



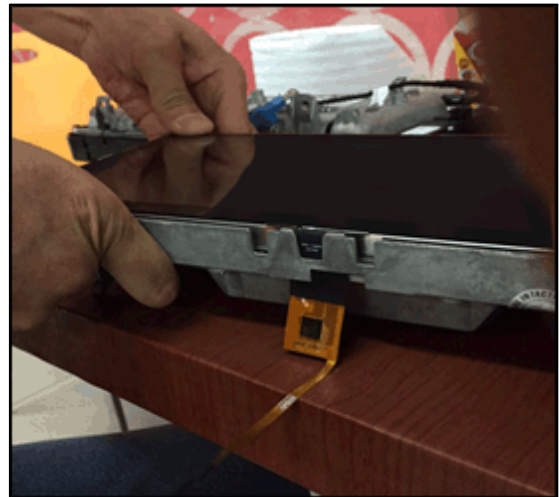
③ Please put the supplied touch board on the indicated part

Installation

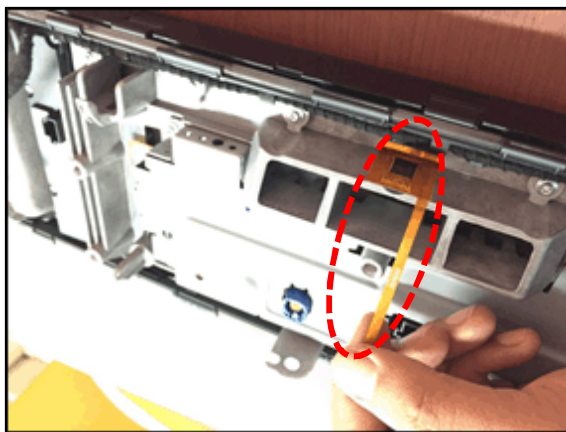
2. Touch installation – S-Class 12.2”



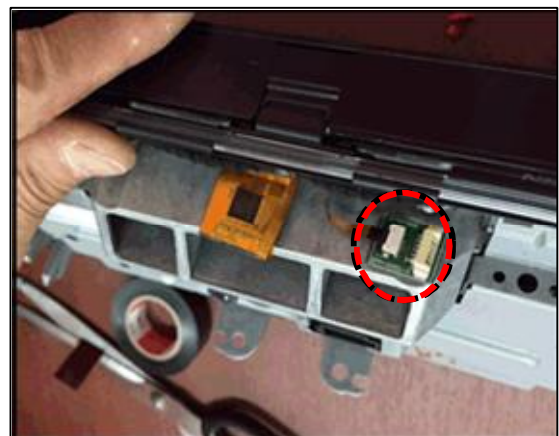
- ① Please remove the monitor from a car



- ② Please stick the touch screen on an OEM screen
(Make sure the sensor position before sticking)



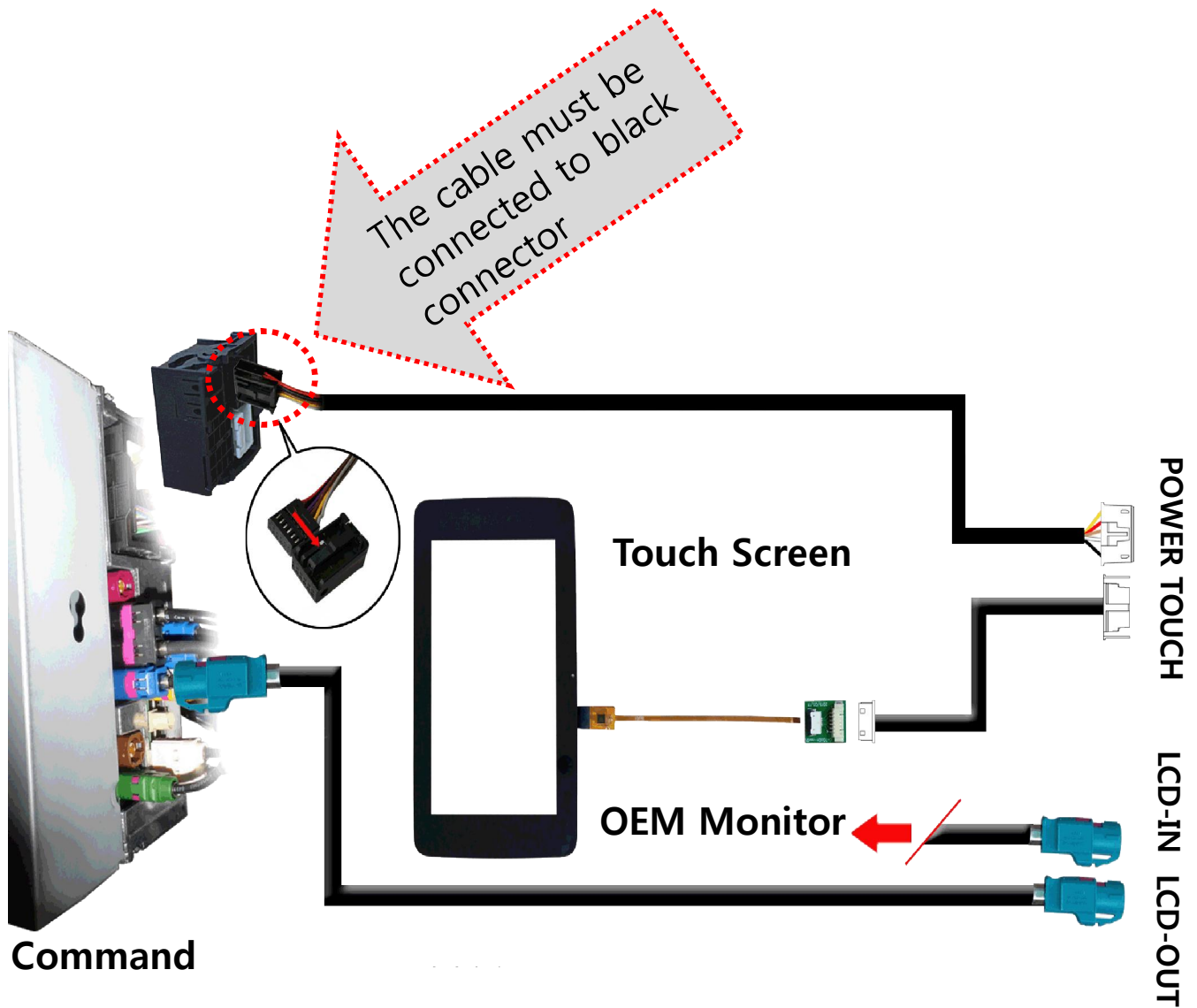
- ③ Please pull out the cable through the back side of monitor



- ③ Please put the supplied touch board on the indicated part

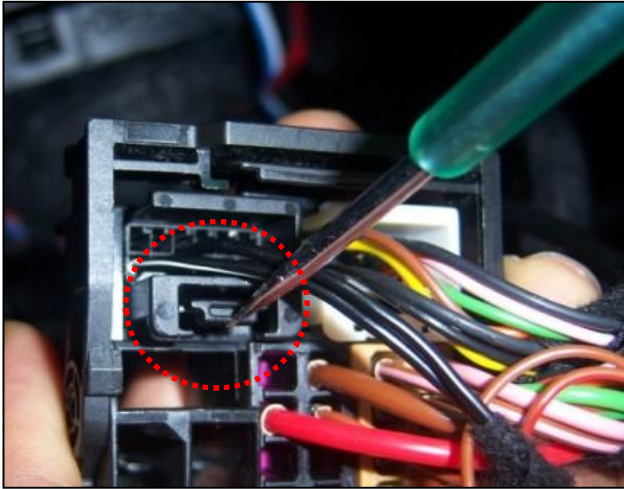
Installation

2. LVDS Connection

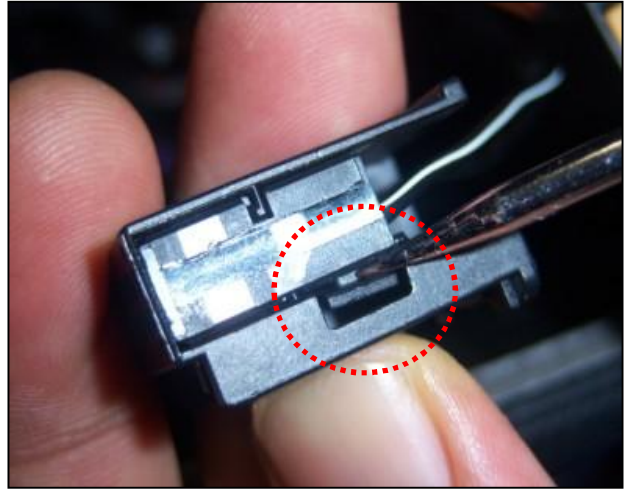


Installation

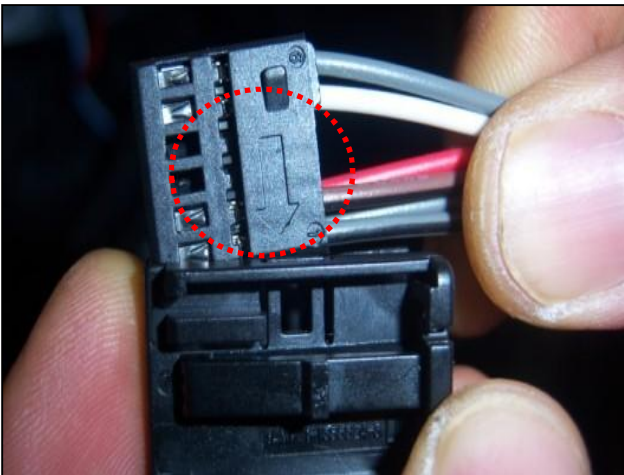
3. CAN Connection



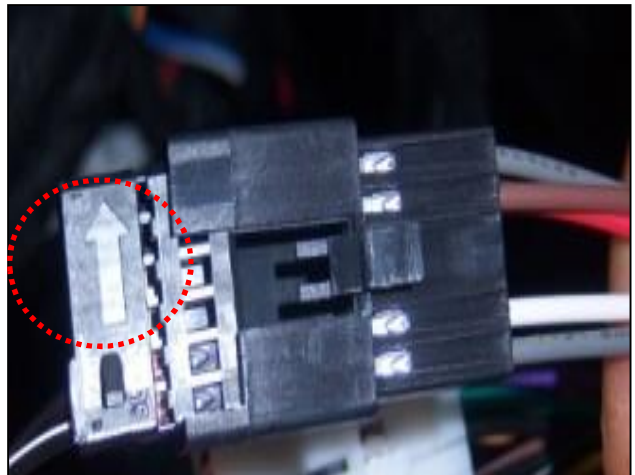
① Please remove the indicated black connector from the OEM plug&play connector



② Please push the indicated lock button to take away connector



③ Please put the removed cable into the black connector
(Make sure the direction of an arrow)



Caution

1. FQA

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

2. Caution

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



GU Electronic

For your better life, better driving