

Instruction Manual

NTG 5.5 for Mercedes Benz E-class

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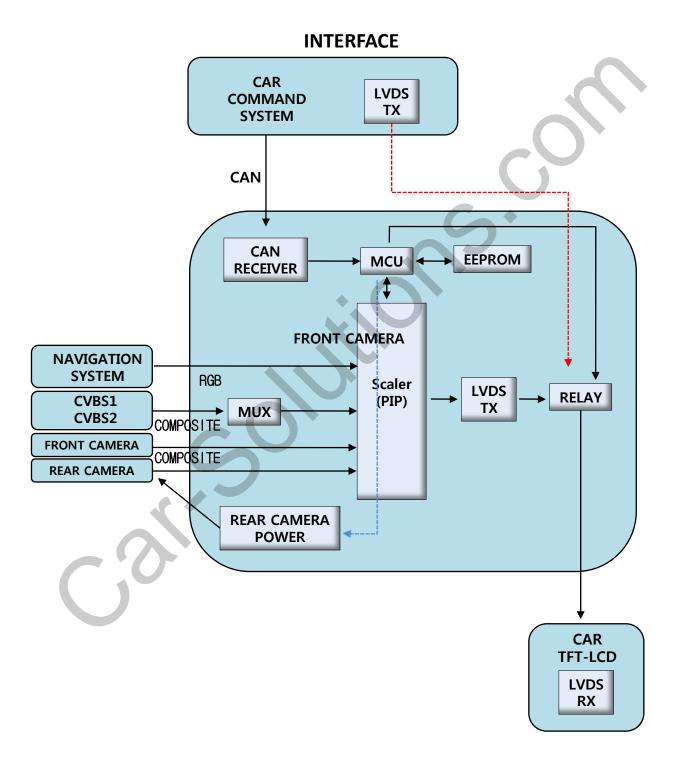
1. Main spec.

- 1-1 Input Spec. (MULTI VIDEO INTERFACE)
 - 2 x A/V Input (External video source).
 - 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 Capacitive Touch Input
 - 1 x Digital RGB
- 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

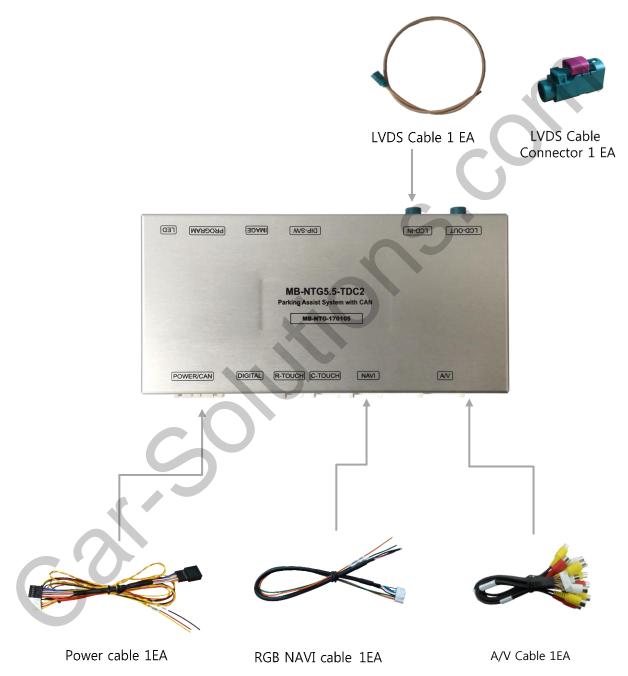
2. Features

- Possible to appear OEM information of Air conditioner when using A/C buttons (Refer to P.11)
- NAVI PIP function
- Possible to switch from external screen to OEM Phone mode screen automatically when phone rings
- Possible to register IR code of DVD/DTV
- Easy installation with Plug&Play CAN/LVDS cable
- Display dynamic PAS (Parking assistance system) with PDC(Only for 8.4")

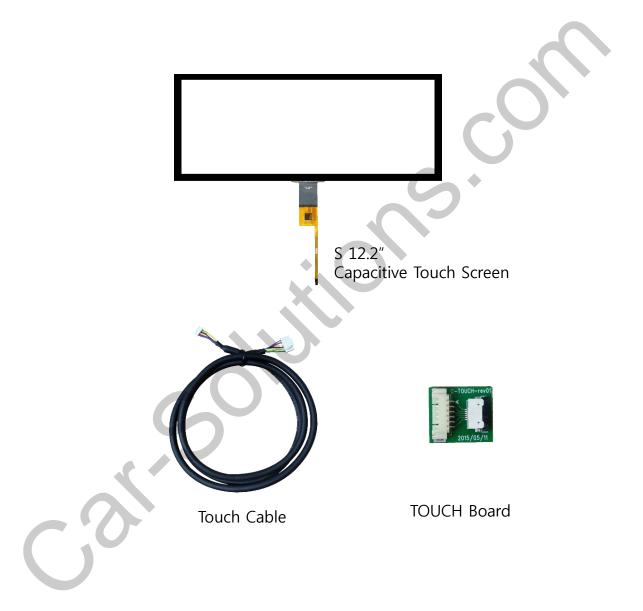
3. Diagram



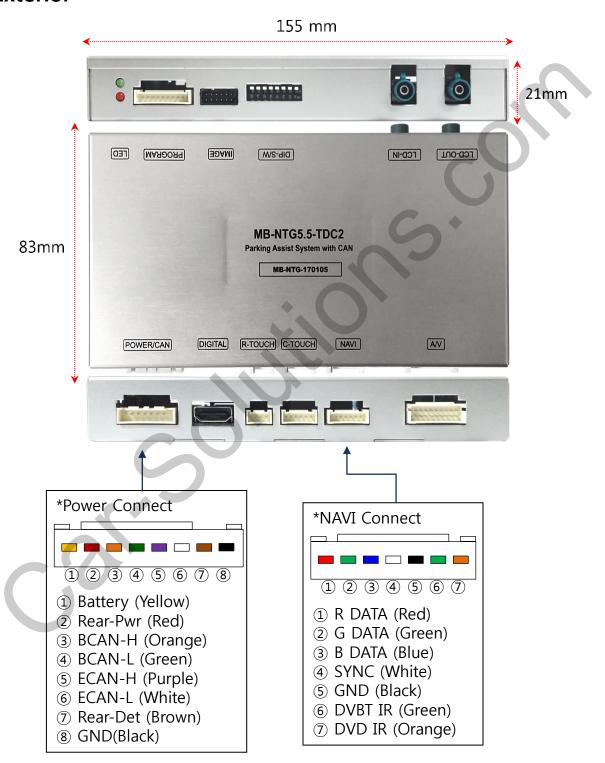
4. Components



4. Components (Option)



5. Exterior



1. Dip Switch

* ON: DOWN, OFF: UP

NO.	Function	Selection
1	NAVI	ON : Skipping NAVI OFF : Display
2	DVB-T	ON : Skipping DVB-T OFF : Display
3	DVD	ON : Skipping DVD OFF : Display
4	N.C	
5	Rear Camera	ON : External camera OFF : OEM Camera
6		ON : E class 8.4"
7	CAR model	ON : E class 12.3"
8		ON : E class 8.4" , E class 12.3"

* Example







E class 8.4" Model

2. Parking → Drive setting

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



3. Original button - Switching mode

-Switching Mode



Steering wheel

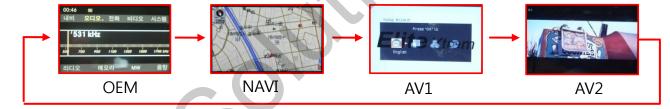


Jog shuttle



: Long Press: Switching mode

Short Press: Switching to OEM directly



-PIP function



NAVI: Long press for activating PIP function



※ You can set for PIP function ON/OFF in OSD MENU (p. 17)

- 3. Original button Switching mode
- Overlay function



- When pressing the buttons in the picture above, The OEM A/C information bar will appear on external screen like the picture blow



※ You can set for Overlay function ON/OFF in OSD MENU (p. 17)

3. Original button - DVB-T, DVD Menu

* Control the menu below by Original button



PUSH: Selection

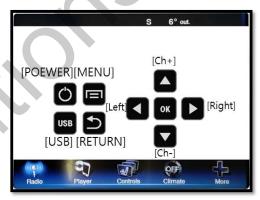
Activating DVD/DTV menu

 $\uparrow \downarrow \rightarrow \leftarrow$: : Moving to the Up, Down, Right, Left

DTV (Select the type of I-con)



[Type -1]



[Type -2]

• DVD





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

3. Original button – OSD Setting



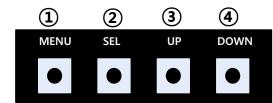
- 1 Long press (6sec) :Activating OSD Short press : Exit
- ② Select
- 3 Up, Increasing value
- 4 Moving from first menu to third menu in order
- **5** Down, Decreasing value
- **6** Moving from Third menu to First menu in order



First Menu Second Menu

Third Menu

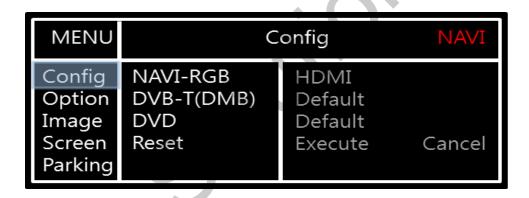
4. KEYBOARD



- 1 MENU: Activating OSD Menu
- 2 SEL: Selection
- 3 Up: Moving upward / increasing value
- 4 Down: Moving downward / decreasing value

5. OSD Menu

※Press "MENU" button on Key board



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

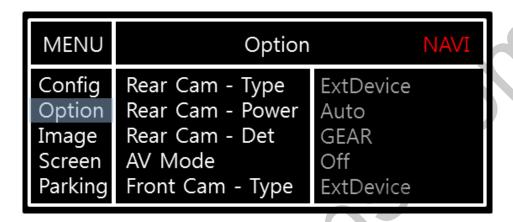
Config - DVB-T : Setup for the type of DVB-T

Config - DVD : Setup for the type of DVD

Reset: Reset all value

5. OSD Menu

XPress "MENU" button on Key board



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

AV Mode: When the "REAR TYPE" is OEM

ON: Using the "Rear input" as AV3

OFF: Not used

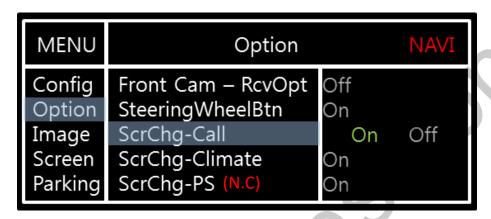
• FrontCam-Type : Setup for front camera

ExtDevice - External rear camera

OEM - Original camera

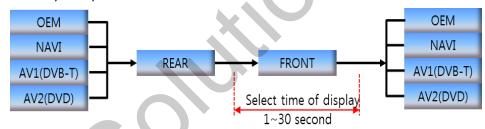
5. OSD Menu

XPress "MENU" button on Key board

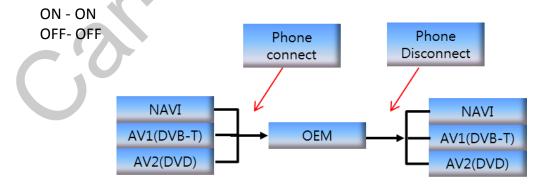


Option

 FrontCam-RcvOpt : Selecting time of displaying Front camera before switching to RGB, DVD, OEM from Rear



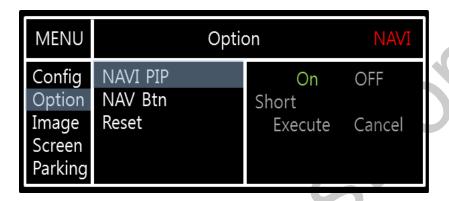
ScrChg-Call: Setup for switching from external screen to OEM Phone mode screen automatically when phone rings



- ScrChg-Climate: Setup for overlay function ON or OFF
- ScrChg-PS: (N.C)

5. OSD Menu

※Press "MENU" button on Key board



Option

NAVI PIP: Setup for PIP function - ON or OFF

NAV Btn : Setup for Original 'NAVI' Button (Switching Mode type)

Short: Short press to switch Long: Long press to switch

Reset : Reset all value

5. OSD Menu

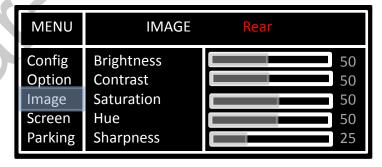
※Press "MENU" button on Key board

- NAVI(RGB) Image / Screen



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

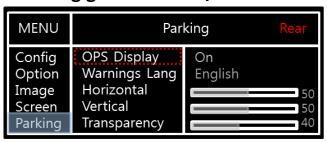
- DVD, DVBT, NAVI-AV, REAR, FRONT Image



5. OSD Menu - Parking mode

XPress "MENU" button on Key board

-Parking guide line ON/OFF



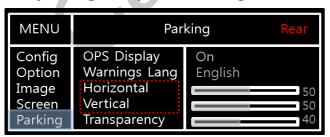
Select a use of parking line (OSD Menu – Parking – Line display – ON or OFF)

Language

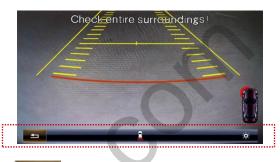


Selecting a type of language (OSD Menu - Parking - Warning lang)

-Adjusting the position of guide line



Parking line - ON



: Original mode

: PAS on/off

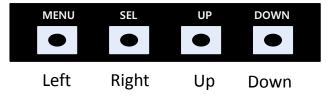
Adjustment of brightness

* Can be adjusted by the Jog shuttle



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

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

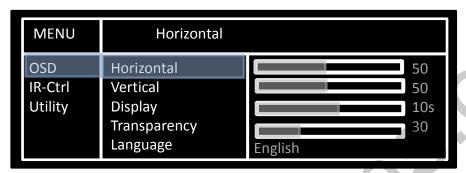


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5. OSD Menu

XPress "MENU" button on Key board

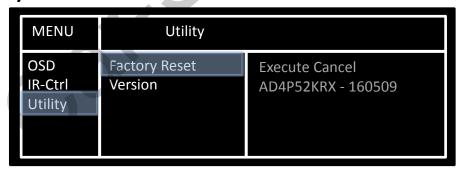
- OSD



- 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



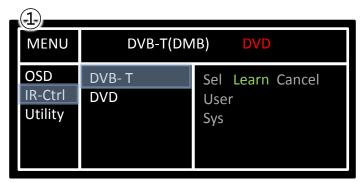
Utility – INTERFACE SOFTWARE

20

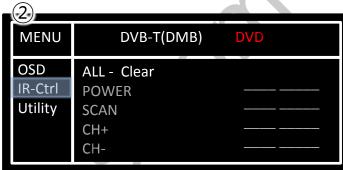
6. OSD Menu – Register IR code

XPress "MENU" button on Key board

- IR Ctrl



① Select IR Ctrl → DVB/DVD/DVR → Learn to register IR code



② All Clear: Remove all value of Remote control registered before Select one of the buttons registering to move on to next step



③ Press a button on the remote control of DVD/DTV then the IR code will be appeared on "New code" menu. Press the same button one more time to confirm the IR code. (Cfm code = confirm code)

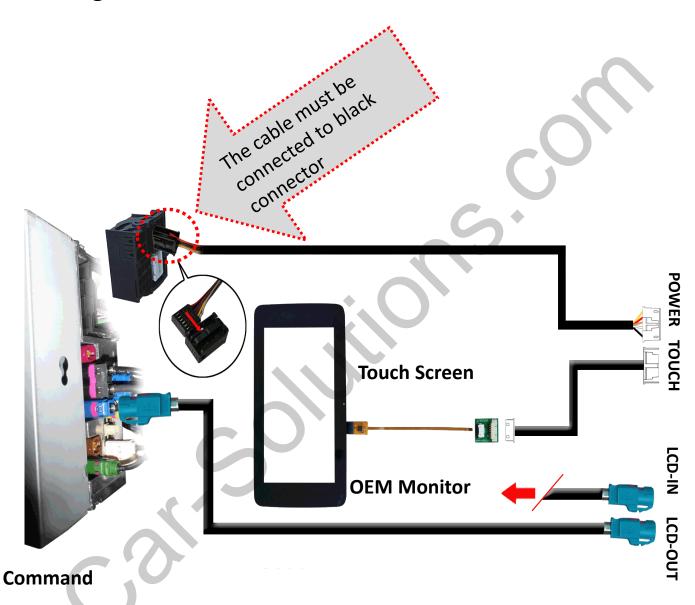
X Caution

- Delete:

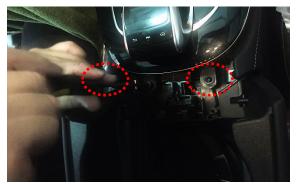
 ALL Clear Delete all value
 Clr Delete one button's Value
- Play/Pause:

To use on, Please register the IR code in power / Pause menu separately

1. Diagram



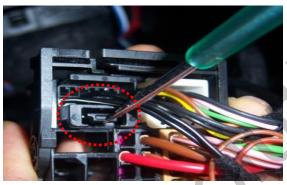
2. CAN Connection



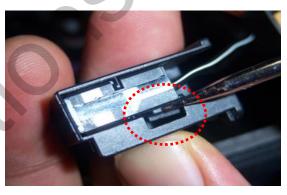
Please loosen the indicated screws to remove the Jog shuttle cover



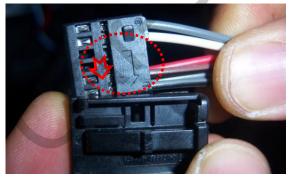
2. Please take the Command out to disconnect OEM power cable



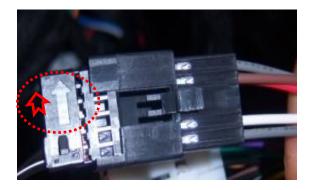
3. Please remove the indicated black connector from the OEM plug & play connector



4. Please push the indicated lock button to take away connector



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

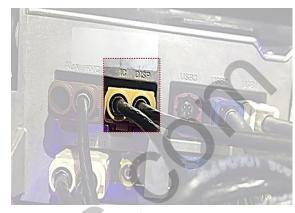


3. LVDS Connection





1. First, please prepare offered LCD connector and LVDS cable

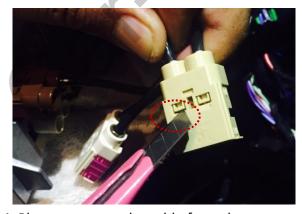


2. Please unplug the Original LVDS cable from the back of monitor (IC, DISP)



3. Please remove the pink cover by using a to ol



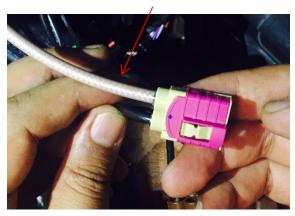


4. Please separate the cable from the connector like the picture above



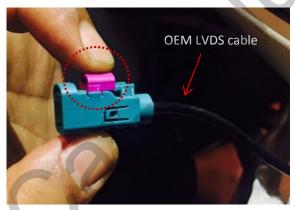
3. LVDS Connection

Offered LVDS cable



5. Please insert the offered LVDS cable to the OEM connector then cover the connector with the pink cover





6. Please insert the disconnected OEM LVDS cable into the offered LCD connector and push the pink button on the connector to fix the OEM cable to the connector



※Please refer to the next page for the different type of command

3. LVDS Connection

X The LVDS connection is different according to the type of command.

[Type-1]

: There is an OEM brown connector next to the OEM white connector



Offered LVDS cable

Please insert the offered LVDS cable to the white OEM connector

[Type-2]

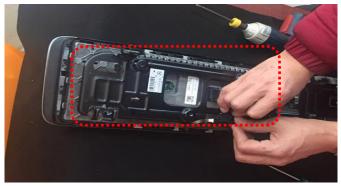
: There is no OEM brown connector next to the OEM white connector



Please insert the offered LVDS cable to the Blue OEM connector

3. TOUCH PANEL Installation

*Caution: The OEM screen can be defective by being pressed (There is no space between LCD panel and plastic cover. Therefore, some parts should be chopped to attach the touch film. But even though chopping some parts, The OEM touch screen can be pressed by the touch film) - GU electronic does not recommend to attach the touch film because of the reason



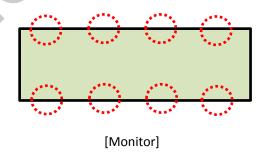
1. Take the indicated cover out from the back side of monitor



Loosen the screws



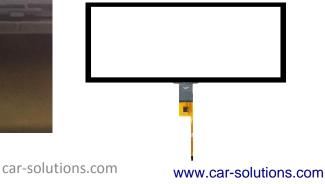
3. Chop the plastic indicated in the picture above to attach the 12.3" touch film



4. Chop the indicated parts until touch film can be attached



4. Attach the 12.3" touch film support@car-solutions.com



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