MB NTG5.5 TDC2 Mercedes Benz - NTG 5.5

IMAGE) LED	MARDORA (W2_910)	(I-SQAT)	TUO-SOVJ
	MB-NTG5.5-THC Parking Assist System with MB - PAS - 170210	2 can	
(POWER/CAN)	HD (5V-OU	T NAVI	AV

VIDEO INTERFACE

MODEL.	MB-NTG-170105
DATE.	2019.09.20



Korea Auto Parts

Spec

1. Input Spec (MULTI VIDEO INTERFACE)

- 1 x Digital 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 Analog RGB Input (Navigation System output)
- 1 x LVDS Input. (Car Command System)
- 1 x Capacitive Touch Screen

2. Output Spec

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

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



External Appearance





MB NTG5.5 TDC2

Connector Pin Assignment



1	POWER Connect (8Pin)		•	•	•	•	•	•	
		1	2	3	4	5	6	7	8

No	1	2	3	4	5	6	7	8
Color								
	YELLOW	RED	ORANGE	GREEN	PURPLE	WHITE	BROWN	BLACK
Connect	ACC	REAR POWER	CAN-HIGH	CAN-LOW	CAN-HIGH	CAN-LOW	REAR DETECT	GND

Kesisuve rouch Connect (4Pin	2	Resistive	Touch	Connect	(4Pin)
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•	٠		•	
1	2	3	4	

No	1	2	3	4
Color	•			
	RED	GREEN	BLUE	WHITE
Connect	Y-	Х-	Y+	X+

-	 -	-	 	-	-	-	-	-	 			-	-	-	-	-	-	-	 		 -	-	 	 	-	-	 	-	-	- 1		 	 -		 -

3	NAVI Connect (7Pin)	•	•	•	•	•	•	•	
		1	2	3	4	5	6	7	

No	1	2	3	4	5	6	7
Color							
	RED	GREEN	BLUE	WHITE	BLACK	GREEN	ORANGE
Connect	R DATA	G DATA	B DATA	SYNC	GND	DMB IR	DVD IR



Product Composition







Board	Power Cable	A/V Cable
\ll		
RGB NAVI Cable	LVDS Cable Connector	LVDS Cable
	C-TOUCH-rev01	Õ
S 12.2″ Touch Screen	Touch Board	Touch Cable



Dip Switch Setting



OFF : ▲UP ON : ▼DOWN

PIN	FUNCTION	DIP S/W Selection
1	NAVI	ON : Not Used OFF : Used
2	DVB-T	ON : Not used OFF : used
3	DVD	ON : Not used OFF : used
4	N.C	
5	REAR Operation	ON : USER OFF : OEM
6		
7	CAR type SEL	Picture
8		

Car Type Select



Mercedes Benz E class 8.4"Model E200 8.4"(2016~)



Mercedes Benz E class 12.3"Model E220 12.3"(2016~) E300 12.3"(2016~) CLS 12.3"(2019~)



Mercedes Benz E class 10.2"Model C class 10.2" (2019~) GLC 10.2" (2019~)



Mode Change

OEM Button Control



Mode Change Button : BACK Button Press for long to change mode

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Mode Change Sequence





Dip Switch Setting

Pin No.5 - REAR Operation

Pin No.5 : OFF



• When switching from rear mode to drive mode, there is a delay before switching to the OEM screen.



• Pin No.5 : ON





OSD(On Screen Display) Control Board



*	The OSD screen can be switched ON/OFFPress for 6 seconds to enter OSD menu
ENTER	Select the currently active item
UP	Move up from the menuIncrease the selected item value
RIGHT	 Move the Menu - First ► Second ► Third Menu Increase the selected item value
DOWN	Move down from the menuDecrease the selected item value
LEFT	 Move the Menu – Third ► Second ► First Menu Decrease the selected item value

MENU	Option		NAVI	Mode State
Config	RearCam-Type	ExtDevic	e	
Option	RearCam-Power	Auto		
Image	RearCam-Det	GEAR		
Screen	AV Mode	Off		
Parking	FrontCam-Type	ExtDevic	е	
First Menu	Second Menu	Third M	lenu	



Option

MENU	RearCam-	Type NAVI	
Config	RearCam-Type	OEM	
Option	RearCam-Power	Auto	
Image	RearCam-Det	GEAR	
Screen	AV Mode	Off	
Parking	FrontCam-Type	ExtDevice	

First Menu	Second Menu	Third Menu	Description
	RearCam-Type	OEM	Original Camera
		ExtDevice	Equipped with external camera
		ON	+ 12V continuous supply
	RearCam-Power	AUTO	+ 12V supply only in Rear camera mode
		OFF	+ 12V off
	FrontCam-Type	OEM	Original Camera
Option		ExtDevice	Equipped with external camera
	FrontCam-Power	ON	+ 12V continuous supply
		AUTO	+ 12V supply only in Front camera mode
		OFF	+ 12V off
	BaarCam BayOnt	ON	Show Frontcam 25sec after rear mode.
	кеагсат-ксуорт	OFF	Default
	Reset	Execute	Reset to default value of Option menu



Image

NAVI – RGB Menu

First Menu	Second Menu	Third Menu	Description
	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
lmaana	Color-RED		Adjust the value of RED
image	Color-GREEN		Adjust the value of GREEN
	Color-BLUE		Adjust the value of BLUE
	Reset	Execute	Option Menu all Reset

DVD / DVBT / NAVI-AV, REAR, FRONT Menu

First Menu	Second Menu	Third Menu	Description
	Brightness		Adjust the value of brightness
	Contrast		Adjust the value of contrast
	Saturation Adjust the value of Satur		Adjust the value of Saturation
Image	Hue		Adjust the value of Hue
-	Sharpness		Adjust the value of Sharpness
	Reset	Execute	Option Menu all Reset





Screen

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

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



Option		Steering	Wheel
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MENU	SteeringWhee	NAVI	
Config	FrontCam-RcvOpt	Off	
Option	SteeringWheelBtn	On	Off
Image	ScrChg-Call	Off	
Screen	ScrChg-Climate	Off	
OSD	ScrChg-PS	Off	



Mode Change Button : Steering Wheel Button



Option > ScrChg-Climate

MENU	ScrChg-Clim	NAVI	
Config	FrontCam-RcvOpt	Off	
Option	SteeringWheelBtn	Off	
Image	ScrChg-Call	Off	
Screen	ScrChg-Climate	On	Off
OSD	ScrChg-PS	Off	



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







Option ScrChg-PS (Proximity Sensor)





Option ► ScrChg-Call

Setup for switching from external screen to OEM phone mode screen automatically when phone rings







Option ► NAVI PIP

MENU	NAVI PIF)	NAVI
Config	NAVI PIP	On	Off
Option	NAV Btn	Short	
Image	Reset	Execute	Cancel
Screen			
OSD			







Option ► NAVI Btn

MENU	NAVI PIP NAVI		NAVI PIP	
Config	NAVI PIP	On	Off	
Option	NAV Btn	Short		
Image	Reset	Execute	Cancel	
Screen		- /		
OSD				



Mode Change Button : NAVI Button Short : Press to change screen immediately

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- •
- Long : Press for 1 second to switch screen OFF : Do not use as Mode switch button. However, press to switch to the OEM screen. •



Option RearCam-RcvOpt

Rear Camera Auto Mode



0 second RearCam-RcvOpt Menu OFF

MENU	Option / RearCam-RcvOpt REAR	
Config	FrontCam-Det	ExtWire
Option	RearCam-RcvOpt	30s
Image	AV Out	USER
Screen	Reset	Execute Cancel
Parking		A ROMAN

1~30 second RearCam-RcvOpt Menu ON & time control



Utility

MENU	Utility / Factory Reset		REAR
OSD	Factory Reset	Execute	Cancel
Utility	Version	BEPPO6SG	X-130950

First Menu	Second Menu	Third Menu	Description
Utility	Factory Reset	Execute	Initialize all settings
	Version		FDS302KRX-171004 (Check for future upgrades)













Installation Navigation Connection





Installation DVB-T Remote Control Connection





Installation DVB-T Remote Control Connection





Installation External Reverse(Rear) Camera Connection





LVDS cable connection





Installation LVDS connection





Unplug the OEM LVDS cable from the back of the monitor (IC, DISP)



Remove the pink cover





Unplug one LVDS cable from the OEM connector



Installation LVDS connection





Insert the supplied LVDS cable into the OEM connector Replace the pink cover and connect it to the back of the monitor (IC, DISP)



The original LVDS cable wire you removed in step 4 Insert it into the supplied LCD connector and secure it as shown.



Installation CAN connection



Pull out Original black connector



Push Lock, Pull out connector



Plug to our connector



X Arrow Direction !





Touch Install





Remove the monitor by removing the bolts



Cut off the plastic on the marked area









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