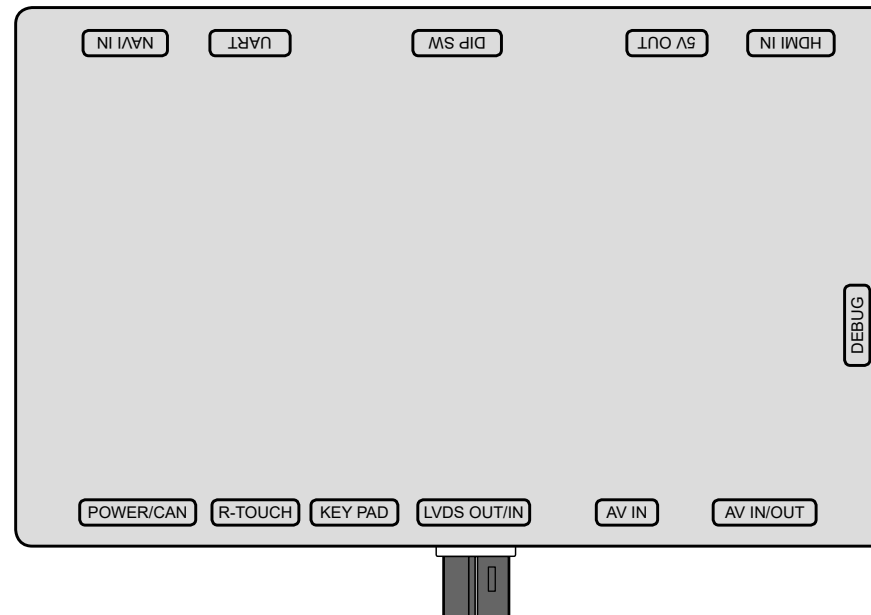


Instruction Manual

High-Definition Link for Mercedes NTG6(MB-UX),NTG55

IW-NTG6-N23



Model Name	IW-NTG6-N23
Latest Firmware Date	2019 - 09 - 26
Manual Version	Rev. 1.6
Language	English

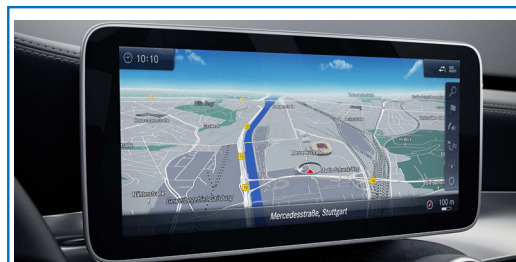
Contents

- Car Compatibility Char_____ 
- Components & Optional Parts_____ 
- Body Connector specifications_____ 
- Full Installation Diagram **NTG6 MB-UX** _____ 
- Full Installation Diagram **NTG5.5** _____ 
- HDMI,NAVI,DVB-T,DVD,External Rear Cam & AV1 Script _____ 
- How to Connected **HDMI,NAVI** _____ 
- Dip Swtich Settings _____ 
- Activation by original buttons **NTG6** _____ 
- Activation by original buttons **NTG5.5** _____ 
- DVB-T Connection Diagram _____ 
- Settings **(How To Use KEYPAD)** _____ 
 - Settings HDMI _____ 
 - Settings HDMI, NAVIGATION _____ 
 - Settings REAR VIEW _____ 
 - Settings REAR VIEW _____ 
 - Settings AV1 (FRONT VIEW) **(OEM Camera delay time setting)** _____ 
 - Settings AV2 (DVB-T, DVD) _____ 

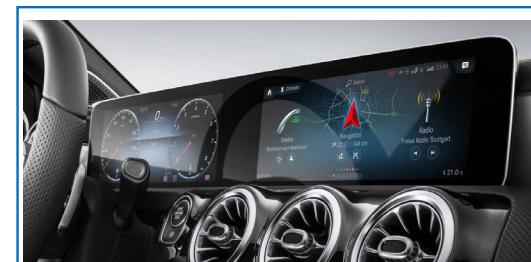
Car Compatibility Chart

Comand NTG 5.5

Car Models	Specific Models	Production Year	Specific Models	Screen Size
C-CLASS	W205	2018 -	- Mercedes Comand APS NTG 5.5 * facelift	7 inch 10.25 inch
E-CLASS	W213	2016 -	- Mercedes Comand APS NTG 5.5	12.3 inch
CLS-CLASS	C257	2018 -	- Mercedes Comand APS NTG 5.5	12.3 inch
S-CLASS (facelift)	W222	2018 -	- Mercedes Comand APS NTG 5.5	12.3 inch
G-CLASS	W463	2018 -	- Mercedes Comand APS NTG 5.5	12.3 inch



Mercedes NTG5.5 <10.2 inch>



Mercedes NTG6 MB-UX <10.25 inch>



Mercedes MB-UX <12.3 inch>

Comand NTG 6 <MB-UX>

Car Models	Specific Models	Production Year	Specific Models	Screen Size
A-Class	W177 V177	2018 -	- Mercedes Comand APS MB-UX	7 inch 10.25 inch
GLE-Class	V176	2019 -	- Mercedes Comand APS MB-UX	12.3 inch
GLS-Class	X176	2019 -	- Mercedes Comand APS MB-UX	12.3 inch
Sprinter	VS30	2018 -	- Mercedes Comand APS MB-UX	7 inch 10.25 inch



2019 A-Class



2019 C-Class
*facelift



E-Class



2019 CLS-Class



2019 S-Class
*facelift



2019 G-Class



2019 G-Class

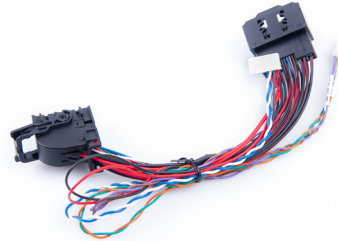


2019 Sprinter

Components



Main Power Cable



**Main Power Cable
for Only NTG6**



LVDS Cable



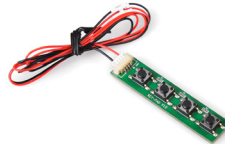
AV IN / OUT Cable



AV Cable



IR Sensor



KEYPAD

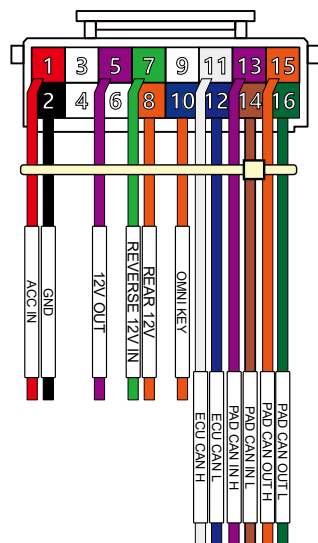
Optional Parts (sold separately at the indiwork)



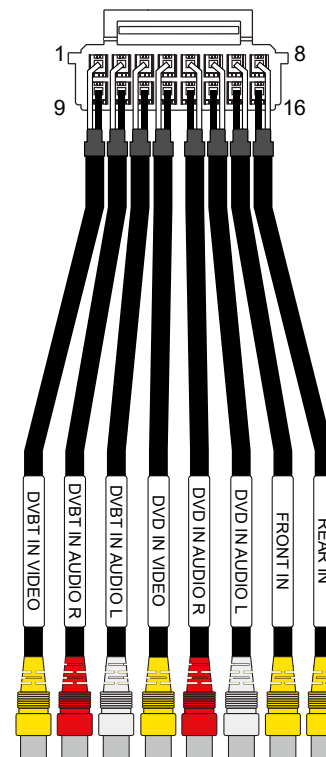
**Quadlock Harness
for Only NTG5.5**

Body Connector specifications

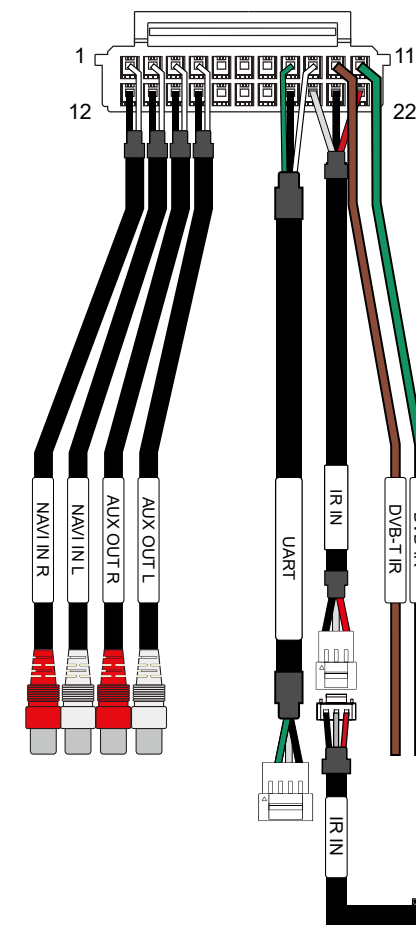
POWER/CAN CABLE



LVDS OUT CABLE



AV CABLE	
1	DVBT VIDEO INPUT
2	DVBT AUDIO R
3	DVBT AUDIO L
4	DVD VIDEO INPUT
5	DVD AUDIO R
6	DVD AUDIO L
7	FRONT-CAM VIDEO INPUT
8	RV-CAM VIDEO INPUT
9	GND_DVBT VIDEO
10	GND_DVBT AUDIO R
11	GND_DVBT AUDIO L
12	GND_DVD VIDEO
13	GND_DVD AUDIO R
14	GND_DVD AUDIO L
15	GND_FRONT-CAM VIDEO
16	GND_RV-CAM VIDEO



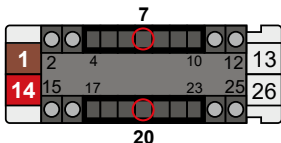
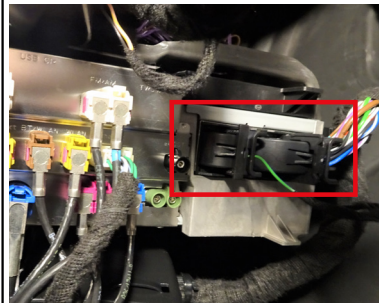
AV CABLE			
1	NAVI AUDIO INPUT R	2	GND(NAVI AUX IN R)
2	NAVI AUDIO INPUT L	4	GND(NAVI AUX IN L)
3	AUX AUDIO OUT R	6	GND(AUX AUDIO OUT R)
4	AUX AUDIO OUT L	8	GND(AUX AUDIO OUT L)
5		10	
6		12	
7		14	
8	UART_RX	16	UART_GND
9	UART_TX	18	IR_SIGNAL
10	DVB-T_IR	20	IR_GND
11	DVD_IR	22	IR_POWER

POWER / CAN CABLE			
1	BATTERY POWER INPUT	9	
2	GROUND	10	OMNI KEY
3		11	ECU CAN H
4		12	ECU CAN L
5	12V(ACC) OUT	13	PAD CAN IN H
6		14	PAD CAN IN L
7	REVERSE 12V IN	15	PAD CAN OUT H
8	REAR 12V POWER OUT	16	PAD CAN OUT L

Full Installation Diagram <NTG6 MB-UX>

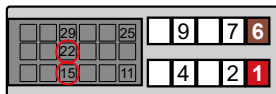
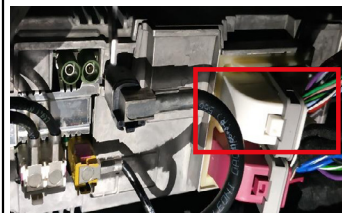
Click
Go to contents page

MBUX 10.25 inch Head Unit Main Connector



(Red) B+ Pin # 14 = ■
(Brown) Ground Pin # 1 = ■
Pas Can High Pin # 7 = ■
(Purple/White)
Pas Can Low Pin # 20 = ■
(Purple)

MBUX 7inch Head Unit Main Connector



(Red) B+ Pin # 1 = ■
(Brown) Ground Pin # 6 = ■
Pas Can High Pin # 15 = ■
(Purple/White)
Pas Can Low Pin # 22 = ■
(Purple)

12V ACC Power Out

For external device (Front Cam, DVD,DTV,etc..) Power

REVERSE IN

When the reverse gear is not detected by CAN-BUS, the 'REVERSE 12V IN wire' should be spliced with 12V power of reverse light.

REAR 12V

For the external rear view camera power
When the shift gear to reverse. the power will be "ON"

Head Unit location <C, GLC, Class>



Center Fascia

Head Unit location <A, CLA, GLA Class>

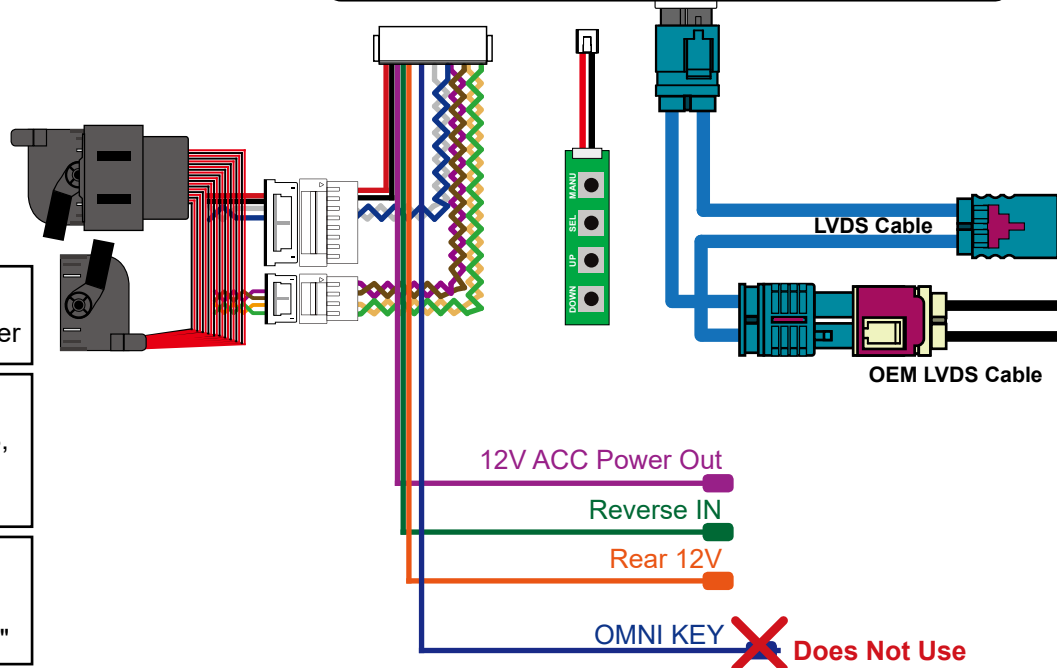
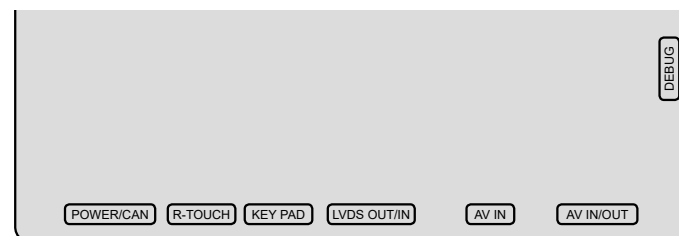


Inside the Undercover

Head Unit location <GLE, GLS, G Wagen>



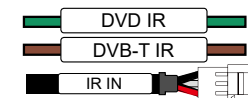
Under the Passenger seat inside carpet



AV IN Port



UART Does Not Use

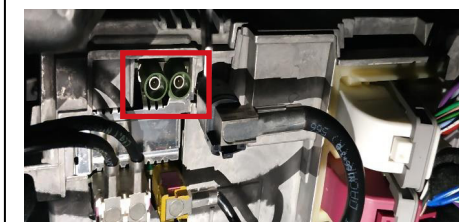


How to Wire & Setting
DVD,DVB-T Remote Controller

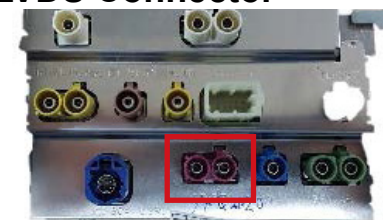


DVB-T , DVD

MBUX 7inch Head Unit LVDS Connector

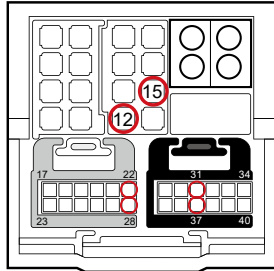


MBUX 10.25 Head Unit LVDS Connector



Full Installation Diagram <NTG5.5>

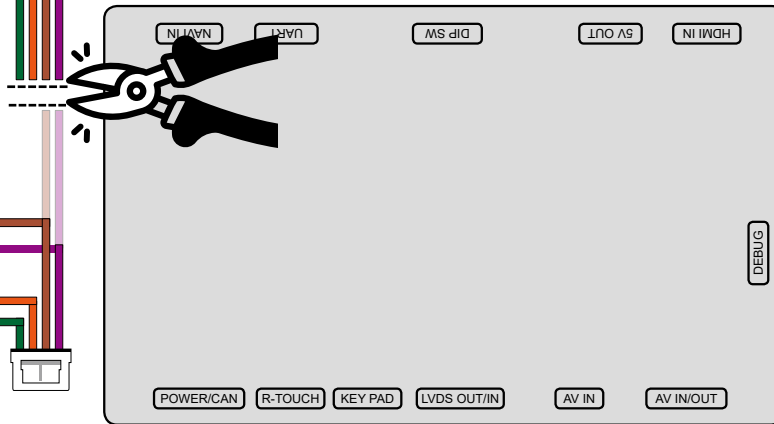
NTG5.5 Main Connector



- (Red) B+ Pin # 15 = B+
- (Brown) Ground Pin # 12 = GND
- (Purple/White) Pas Can High Pin # 37 = Pas Can High H
- (Purple) Pas Can Low Pin # 31 = Pas Can High L
- (Black/White) CMD CAN H Pin # 28 = CMD CAN IN H
- (Black) CMD CAN L Pin # 22 = CMD CAN IN L

Cutting the OEM wire and connect IN/OUT

- CMD CAN IN L
- CMD CAN IN H
- CMD CAN OUT H
- CMD CAN OUT L



12V ACC Power Out

For external device (Front Cam, DVD,DTV,Etc..) Power

REVERSE IN

When the reverse gear is not detected by CAN-BUS, the 'REVERSE 12V IN wire' should be spliced with 12V power of reverse light.

REAR 12V

For the external rear view camera power
When the shift gear to reverse. the power will be "ON"

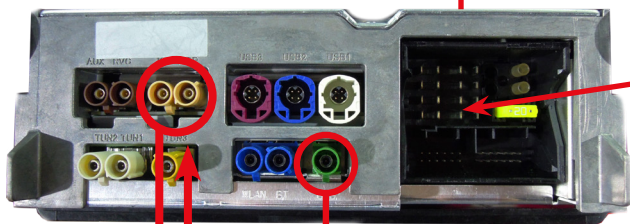


Important

If there is Optical harness It should be moved to provided main connector

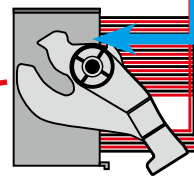


Mercedes NTG5.5 Head Unit



GPS FAKRA

OEM Main Harness



Reverse IN

Rear 12V

OMNI KEY

Does Not Use

LVDS Cable

OEM LVDS Cable

AV IN Port



UART

Does Not Use

DVD IR
DVB-T IR
IR IN

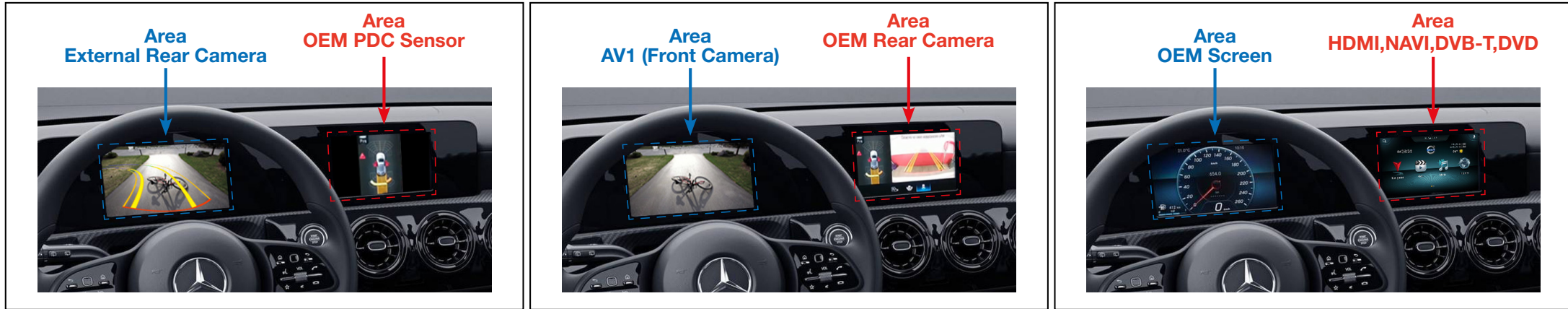
How to Wire & Setting
DVD,DVB-T Remote Controller



DVB-T , DVD

HDMI,NAVI,DVB-T,DVD, External Rear Camera & AV1 (FRONT CAMERA) Script

NTG6 "7inch" OEM Screen Type



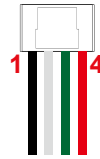
※ It is the fixed. Can not change screen from left to right

NTG6 "10.25inch" OEM Screen Type

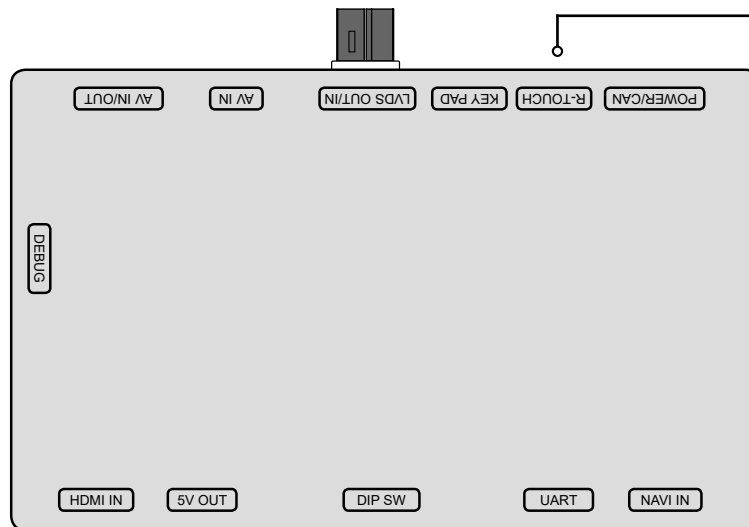


How to Connected HDMI , NAVI (Android)

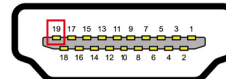
Touch Cable Spec



PIN #1	X -
PIN #2	Y -
PIN #3	X +
PIN #4	Y +



NAVI IN PORT UART TOUCH



Pin # 19 = Uart TX

Support Device

- A-LINK II
- M2C-100IW
- NV17
- NV100

HDMI DEVICE



Supports Only 720P

NAVI DEVICE (4CH LVDS)



N-LINK II (Gps Box *Only Korea) A-LINK (Android Box)

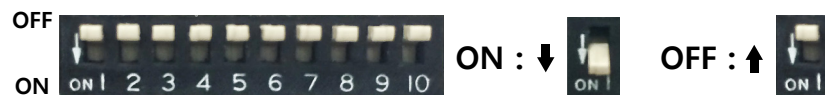
Support OEM Touch PAD *Only "A-LINK"



Connected Touch by UART



DIP Switch Settings



PIN	ON (▼)	OFF(▲)
1	HDMI Mode	Skip HDMI Mode
2	Navigation Mode	Skip Navigation Mode
3	External Rear View Camera	Original Rear View Mode (OEM CAMERA)
4	External Front View Camera(AV1 Mode)	Skip External Front View Camera(AV1 Mode)
5	AV2(DVBT) Mode	Skip AV2(DVBT) Mode
6	AV3(DVD) Mode	Skip AV2(DVD) Mode
7	Select car model	
8		
9		
10		

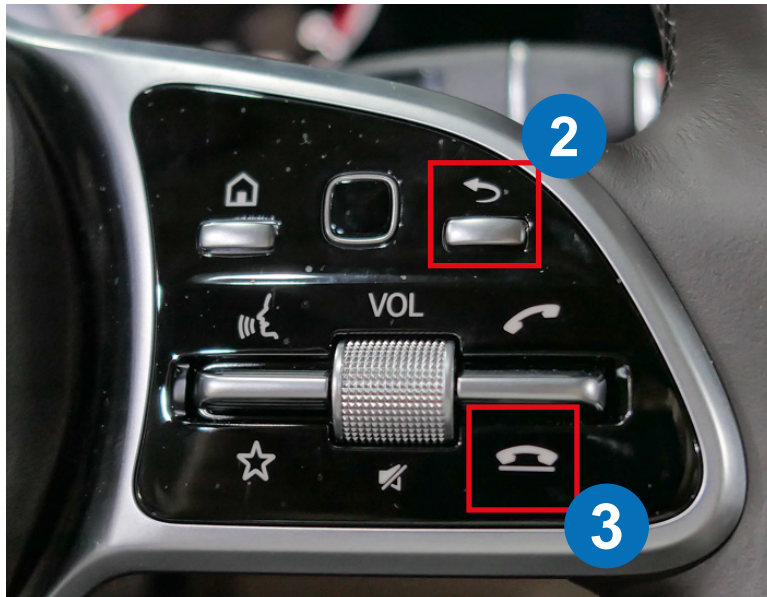
No.7	No.8	No.9	No.10	Car Model	Code Name	Head Unit	Screen Size
OFF(▲)	OFF(▲)	OFF(▲)	OFF(▲)	A-Class	W177 V177	NTG6	10.25 inch
				GLC-Class <i>*facelift</i>	X253		
OFF(▲)	OFF(▲)	ON (▼)	OFF(▲)	A-Class	W177 V177	NTG6	7 inch
OFF(▲)	OFF(▲)	OFF(▲)	ON (▼)	C-Class <i>*facelift</i>	W205	NTG6	10.25 inch
				Sprinter	VS30	NTG6	
				E-Class	W213	NTG5.5	12.3 inch
				GLE-Class	V176	NTG6	
				GLS-Class	X176	NTG6	
OFF(▲)	OFF(▲)	ON (▼)	ON (▼)	C-Class <i>*facelift</i>	W205	NTG6	7 inch

Activation by original buttons <NTG6>



Touchpad and Buttons

Button	Function	Operation	Remarks
1 NAVI MAP	Changing Modes	Press the button 2 seconds	Order : HDMI → NAVI → DVB-T → DVD → OEM
		Press the button short time	Return to the OEM mode in any modes.
2 Back	Changing Modes (Front Cam)	Press the button 2 seconds	Order : AV1 (Front View Camera)
		Press the button short time	Order : AV1 → Previous screen
3 Hang up	Changing Modes (Front Cam)	Press the button 2 seconds	Order : OEM → Front View Camera
		Press the button 1 seconds	Return to the OEM mode in any modes.
4 CAR	Changing Modes	Press the button 1 seconds	Return to the OEM mode in any modes.



Steering Wheel Buttons

Button	Function	Operation	Remarks
5	Next track Previous track	Press the button 1 seconds	You can control DVB-T and DVD after connection and setting

Activation by original buttons <NTG5.5>



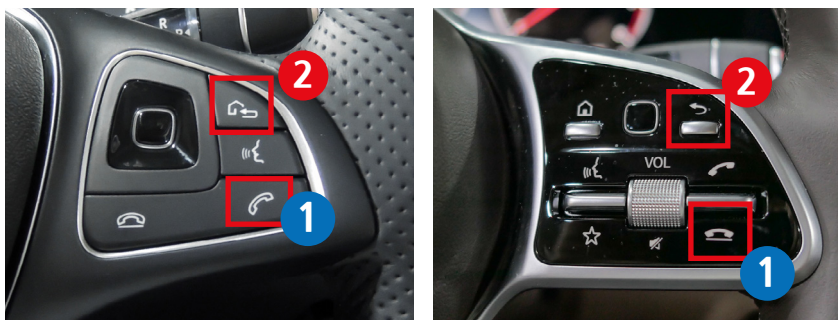
Mercedes NTG5.5 Controller

Button	Function	Operation	Remarks
1	Changing Modes	Press the button 2 seconds	Order : HDMI → NAVI → DVB-T → DVD → OEM
		Press the button short time	Return to the OEM mode in any modes.
2	Changing Modes (Front Cam)	Press the button 2 seconds	Order : AV1 (Front View Camera)
		Press the button short time	Order : AV1 → Previous screen
4 Dial Up	Changing Modes	Press the button 1 seconds	Return to the OEM mode in any modes.



Mercedes NTG5.5 Radio Buttons

Button	Function	Operation	Remarks
4 Dial Up	Next track	Press the button 1 seconds	You can control DVB-T and DVD after connection and setting
5 Dial Down	Previous track	Press the button 1 seconds	

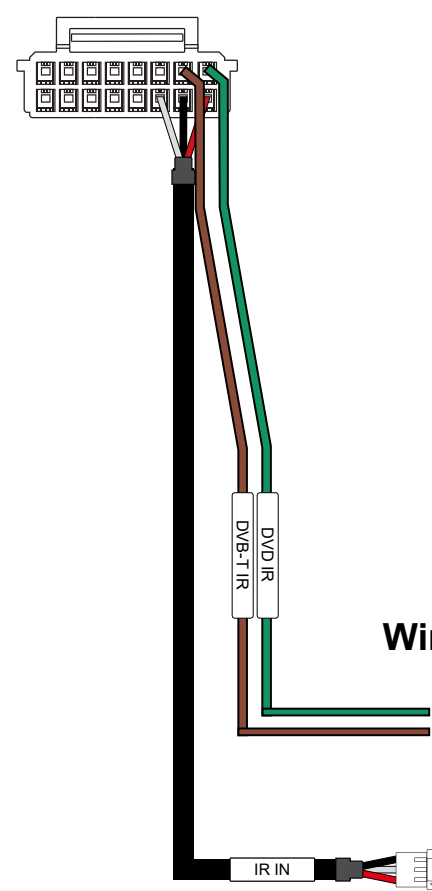


W213 Steering Wheel Buttons

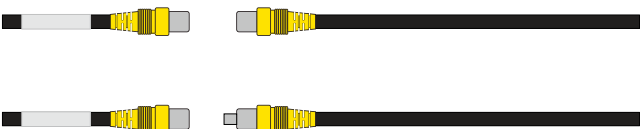
DVB-T Diagram

DVB-T OR DVD DEVICE

AV CABLE



CVBS



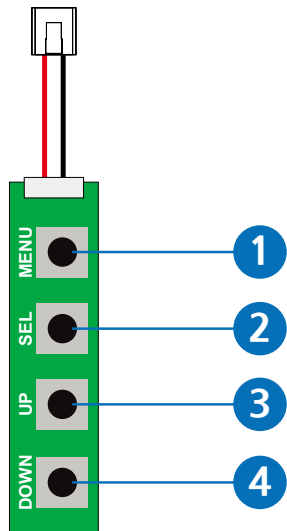
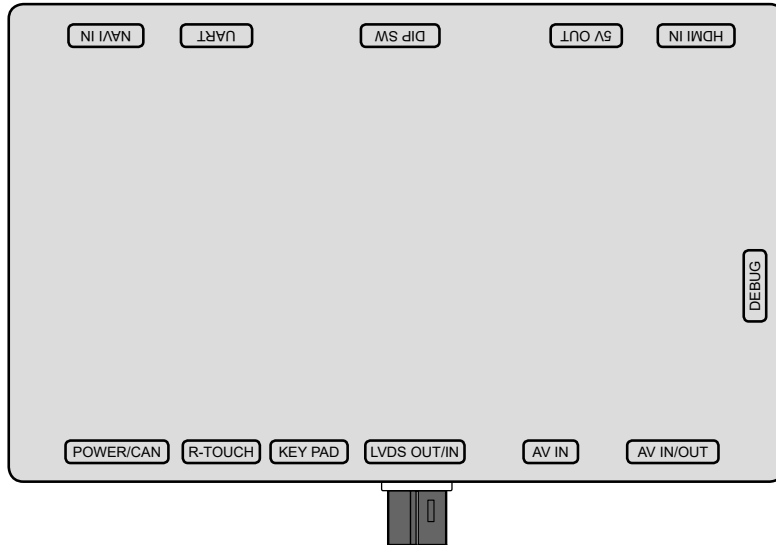
Wire To DVB-T IR
DVD IR

IR SIGNAL IN



DVB-TV IR Sensor	
Red	POWER
White	SIGNAL
Black	GROUND

Settings (How To Use KEYPAD)



KEYPAD - Function #1

Button	Function	Operation	Remarks
1 MENU	Changing Modes	Press the button short time	Order : HDMI → NAVI → DVB-T → DVD → OEM
2 SEL	Enter into the setting menu	Press the button short time	

KEYPAD - Function #2

Button	Function	Operation
1 MENU	Back to previous menu When press the button short.	Press the button short time
2 SEL	Select the setting menu and setting values.	Press the button short time
3 UP 4 DOWN	Move the menu-pointer and adjust the setting values	Press the button short time

Settings

HDMI	INPUT SOURCE	DEFAULT
NAVIGATION	BRIGHT	AVM
REAR VIEW	CONTRAST RED	DTV
AV1 (FRONT VIEW)	CONTRAST GREEN	
AV2 (DTV)	CONTRAST BLUE	
NONE		
CUSTOM		
EXIT		

DIP SWITCH INFO :


FIRMWARE DATE :

MAIN : 2018-03-02
SUB : 2018-03-02
TW23 : 2018-03-02

HDMI	INPUT SOURCE	AVM (AROUND VIEW)
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
AV1 (FRONT VIEW)	CONTRAST GREEN	128
AV2 (DTV)	CONTRAST BLUE	128
NONE	AVM KEEPING TIME R → D	7 Sec
CUSTOM	AVM KEEPING TIME P → D	7 Sec
EXIT	PGS ON / OFF	OFF
	PGS - HORIZONTAL	128
	PGS - VERTICAL	128
	PDC ON / OFF	OFF

DIP SWITCH INFO :


FIRMWARE DATE :
MAIN : 2018-03-02
SUB : 2018-03-02
TW23 : 2018-03-02

HDMI - DEFALUT

- **INPUT SOURCE (Hdmi device model select)**
 - **DEFALUT** (Basic HDMI Device)
 - **AVM** (360° Around View Camera)
 - **DTV** (Digital Television)
- **BRIGHT and CONTRAST**

Adjust the values of brightness and contrast

HDMI INPUT - AVM

- **BRIGHT and CONTRAST**
Adjust the values of brightness and contrast
- **AVM KEEPING TIME**
 - When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.
- **PGS (Parking Guide System)**
 - Adjust position of parking guide lines and select the lines 'ON or OFF'.

Settings

HDMI	INPUT SOURCE	DTV
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
AV1 (FRONT VIEW)	CONTRAST GREEN	128
AV2 (DTV)	CONTRAST BLUE	128
NONE	REMOTE OSD ON / OFF	ON
CUSTOM	REMOTE TYPE	ALPINE
EXIT	MEMORY UP ①	0x807f807f
	MEMORY DOWN ②	0x807f807f
	MEMORY LEFT ③	0x807f807f
	MEMORY RIGHT ④	0x807f807f
	MEMORY OK ⑤	0x807f807f
	MEMORY MENU ⑥	0x807f807f
	MEMORY EXIT ⑦	0x807f807f
	MEMORY ETC1 ⑧	0x807f807f
	MEMORY ETC2 ⑨	0x807f807f

DIP SWITCH INFO : 

FIRMWARE DATE :
MAIN : 2018-03-02
SUB : 2018-03-02
TW23 : 2018-03-02

HDMI	BRIGHT	128
NAVIGATION	CONTRAST RED	128
REAR VIEW	CONTRAST GREEN	128
AV1 (FRONT VIEW)	CONTRAST BLUE	128
AV2 (DTV)	GPS BOX MODEL	DEFAULT
NONE		
CUSTOM		
EXIT		

DIP SWITCH INFO : 

FIRMWARE DATE :
MAIN : 2018-03-02
SUB : 2018-03-02
TW23 : 2018-03-02

HDMI INPUT - DTV

- BRIGHT and CONTRAST

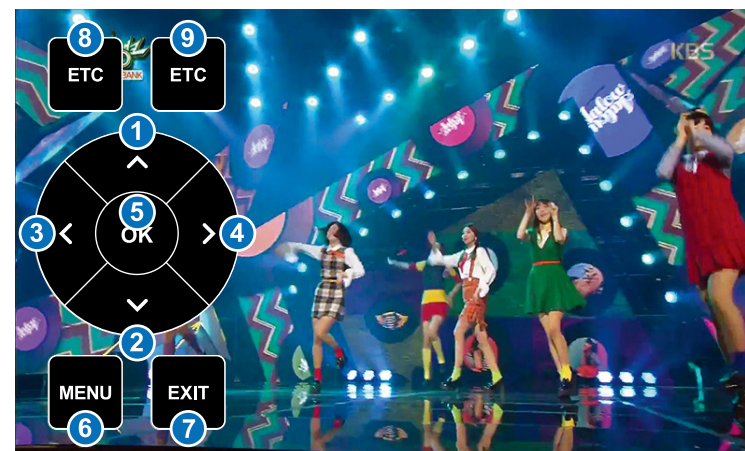
Adjust the values of brightness and contrast

- REMOTE OSD ON / OFF

• You can control to some of function on DTV remote control by OSD UI

- REMOTE TYPE

• ALPINE - TUE-T500 • Pioneer - GEX909 • HIT7700



NAVIGATION

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- GPS BOX MODEL

< Using for "UART in HDMI" Navigation model must be setting >

- A-LINK , M2C-100 IW
- NV17
- NV100

Settings

HDMI	INPUT SOURCE	OEM CAMERA
NAVIGATION	BRIGHT	AVM (AROUND VIEW)
REAR VIEW	CONTRAST RED	EXTERNAL CAMERA
FRONT VIEW	CONTRAST GREEN	
DTV	CONTRAST BLUE	
DVD		
CUSTOM		
EXIT		

DIP SWITCH INFO :

FIRMWARE DATE :

MAIN : 2018-03-02

SUB : 2018-03-02

TW23 : 2018-03-02

REAR VIEW INPUT - OEM CAMERA

- INPUT SOURCE

- OEM CAMERA
- **AVM** (360° Around View Camera)
- EXTERNAL CAMERA

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

HDMI	INPUT SOURCE	AVM (AROUND VIEW)
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
FRONT VIEW	CONTRAST GREEN	128
DTV	CONTRAST BLUE	128
DVD	AVM KEEPING TIME R → D	7 Sec
CUSTOM	AVM KEEPING TIME P → D	7 Sec
EXIT	PGS ON / OFF	OFF
	PGS - HORIZONTAL	128
	PGS - VERTICAL	128
	PDC ON / OFF	OFF

DIP SWITCH INFO :

FIRMWARE DATE :

MAIN : 2018-03-02

SUB : 2018-03-02

TW23 : 2018-03-02

REAR VIEW INPUT - AVM

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- AVM KEEPING TIME

- When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

- PGS (Parking Guide System)

- Adjust position of parking guide lines and select the lines 'ON or OFF'.

- PDC (Graphic Sensor Image)

- Sensor Image 'ON or OFF'.

Settings

HDMI	INPUT SOURCE	EXTERNAL CAMERA
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
FRONT VIEW	CONTRAST GREEN	128
DTV	CONTRAST BLUE	128
DVD	PGS ON / OFF	OFF
CUSTOM	PGS - HORIZONTAL	128
EXIT	PGS - VERTICAL	128
	PDC ON / OFF	OFF
DIP SWITCH INFO :  FIRMWARE DATE : MAIN : 2018-03-02 SUB : 2018-03-02 TW23 : 2018-03-02		

REAR VIEW INPUT - EXTERNAL CAMERA

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- PGS (Parking Guide System)

· Adjust position of parking guide lines and select the lines 'ON or OFF'.

- PDC (Graphic Sensor Image)

· Sensor Image 'ON or OFF'.

Settings

HDMI	INPUT SOURCE	OEM CAMERA
NAVIGATION	CAM KEEPING TIME R → D	7 Sec
REAR VIEW	CAM KEEPING TIME P → D	7 Sec
FRONT VIEW		
DTV		
DVD		
CUSTOM		
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE :
       		MAIN : 2018-03-02
		SUB : 2018-03-02
		TW23 : 2018-03-02

FRONT VIEW INPUT - OEM CAMERA

- CAM KEEPING TIME

- When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

HDMI	INPUT SOURCE	EXTERNAL CAMERA
NAVIGATION	BRIGHT	128
REAR VIEW	CONTRAST RED	128
FRONT VIEW	CONTRAST GREEN	128
DTV	CONTRAST BLUE	128
DVD	CAM KEEPING TIME R → D	7 Sec
CUSTOM	CAM KEEPING TIME P → D	7 Sec
EXIT		
DIP SWITCH INFO :		FIRMWARE DATE :
       		MAIN : 2018-03-02
		SUB : 2018-03-02
		TW23 : 2018-03-02

FRONT VIEW INPUT - EXTERNAL CAMERA

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- FRONT CAM KEEPING TIME

- When you shift gear 'from reverse to drive' or 'from parking to drive', it just works automatically during the activation time you selected.

- PDC (Graphic Sensor Image)

- Sensor Image 'ON or OFF'.

Settings

HDMI	BRIGHT	128
NAVIGATION	CONTRAST RED	128
REAR VIEW	CONTRAST GREEN	128
FRONT VIEW	CONTRAST BLUE	128
DTV	REMOTE OSD ON / OFF	ON
DVD	REMOTE TYPE	ALPINE
CUSTOM	MEMORY UP ①	0x807f807f
EXIT	MEMORY DOWN ②	0x807f807f
	MEMORY LEFT ③	0x807f807f
	MEMORY RIGHT ④	0x807f807f
	MEMORY OK ⑤	0x807f807f
	MEMORY MENU ⑥	0x807f807f
	MEMORY EXIT ⑦	0x807f807f
	MEMORY ETC1 ⑧	0x807f807f
	MEMORY ETC2 ⑨	0x807f807f

DIP SWITCH INFO :


FIRMWARE DATE :
MAIN : 2018-03-02
SUB : 2018-03-02
TW23 : 2018-03-02

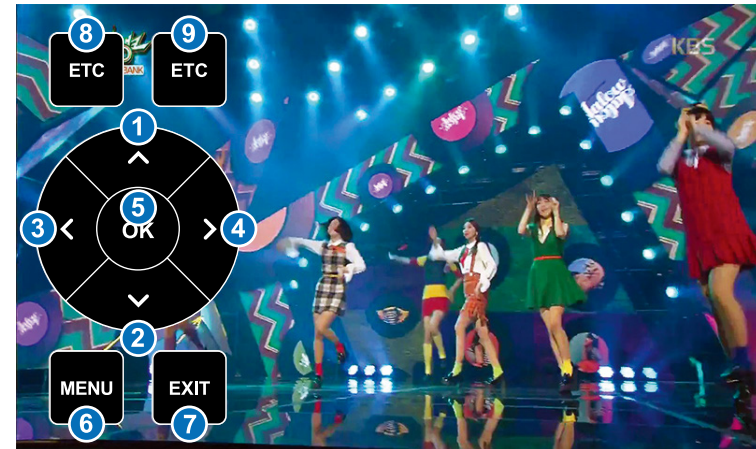
DTV , DVD

- BRIGHT and CONTRAST

Adjust the values of brightness and contrast

- REMOTE OSD ON / OFF

- You can control to some of function on DTV remote control by OSD UI



- REMOTE TYPE

· ALPINE · GEX909DTV · HIT7700

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