

COMPONENTS LIST



1. Interface Box



2. LVDS IN Cable



3. LVDS OUT Cable



4. Main Cable Harness

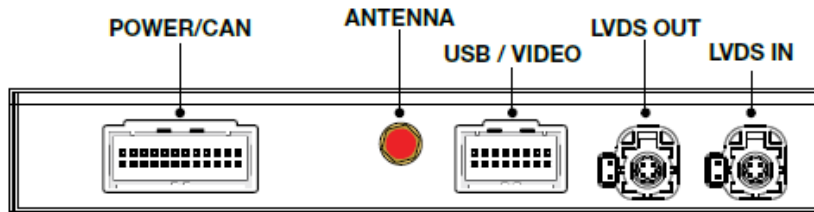


5. AV Cable

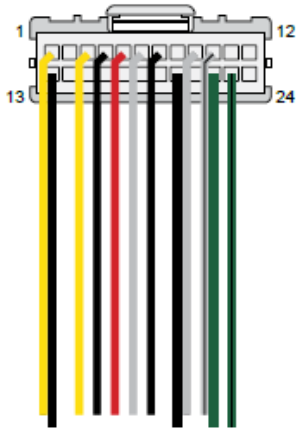


6. Antenna

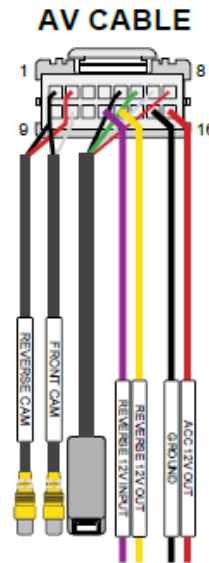
Body Connector specifications



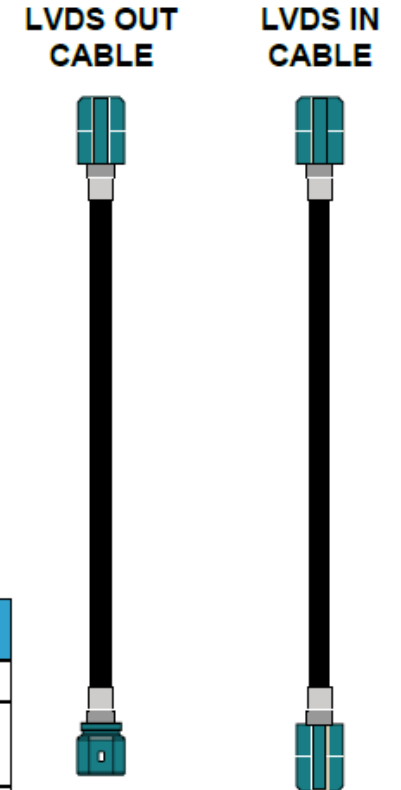
Basic Type Main Harness (GPBMW1901B-NBT-V1)



POWER / CAN			
1	B+	13	GND
2	AUDIO_GND	14	GND
3	MIC_IN_P	15	CTP_I2C_IRQ_R
4	MIC_IN_N	16	CTP_SD
5	AUDIO_OUT_R	17	I2C_SDA
6	AUDIO_OUT_L	18	I2C_SCL
7	AUDIO_GND	19	IR_IN
8	Sys_3.3V	20	GND
9	CAN2_HIGH	21	GND
10	CAN2_LOW	22	CAN1_HIGH
11	CAN3_LOW	23	CAN1_LOW
12	CAN3_HIGH	24	GND



AV CABLE			
1	CVBS_GROUND	9	
2	REVERSE_CAM_VIDEO_INPUT	10	FRONT_CAM_VIDEO_INPUT
3		11	
4	GROUND_SHIELD	12	REVERSE_12V_INPUT
5	USB_GND	13	REAR_12V_POWER_OUT
6	DATA +	14	
7	DATA -	15	GROUND
8	5V POWER	16	12V(ACC)_OUT



Car Compatibility Chart

Car Models	CODE NAME	Production Year
3 Series	E90,E91,E92,E93	2009 ~ 2012
5 Series	E60,E61	2008 ~ 2009
5 Series	F10,F11,F07 (5GT)	2009 ~ 2012
6 Series	F12,F13	2009 ~ 2012
7 Series	F01,F02	2009 ~ 2012
X1	E84	2009 ~ 2014
X3	F25	2011 ~ 2013
X5	E70	2009 ~ 2013
X6	E71,E72	2010 ~ 2013
Z4	E89	2012 ~ 2014

Car Models	CODE NAME	Production Year
MINI Cooper	R56	2009 - 2015
MINI Countryman	R60	2009 - 2015
MINI Clubman	R55	2009 - 2015



BMW 5 Series (E60)



BMW 5 Series (F10)



BMW X5 (E70)



Screen LVDS Cable



Main User Interface Design

The SCB-NBT is used in combination with BMW iDrive CIC

The SCB-CIC supports the BMW original screen equipped with '4-pin LVDS round connector' only.

Please check the specification of original LVDS connector on the sidelines of a production year.

Full Installation Diagram <BASIC TYPE>

DIP Switch Settings



PIN	ON (▼)	OFF (▲)
1	Some of vehicle <2012 ~ 2013 5,6,7,5GT> New Type(NBT Type I-Driver Controller)	Not Used Default (OFF)
2	Some of vehicle <2012 ~ 2013 5,6,7,5GT> New Type(NBT Type I-Driver Controller)	Not Used Default (OFF)
3	6.8 Inch Screen 10.2 Inch Screen	6.5 Inch Screen
4	Used Default (ON)	Some of vehicle <2012 ~ 2013 5,6,7,5GT> New Type(NBT Type I-Driver Controller)
5	Not Used Default (OFF)	
6	Not Used Default (OFF)	
7	Not Used Default (OFF)	
8	Using OEM MIC LINE	External MIC

AV Cable



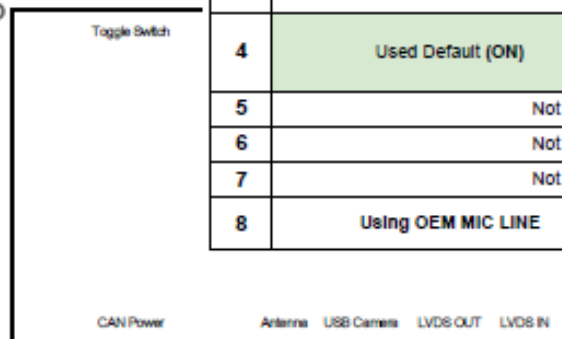
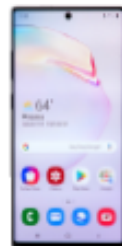
- GROUND
- REVERSE 12V IN
- 12V ACC OUT
- 12V OUT REVERSE CAM



We recommend using for each phone manufacturer genuine cable
Please. Never using "Adapter Type and Multi cable"

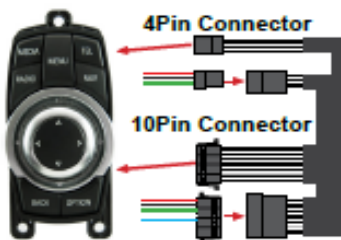
Apple Car Play
Apple i-phone

Android Auto
Google Android



Usually Not Used

BMW CIC
i-Drive Main Harness IN / OUT



※ When it connect CAN IN / OUT at the I-Drive button connector

Female Quad Lock Harness



Need to Cutting Wire

※When Using External Mic

Audio OUT ※ If it does not connected AUX by Quad Lock Harness
Please Connect to AUX IN Port in the Vehicle.

External Mic ※ If it does not connected Mic by Quad Lock Harness
Please Connect External Mic.

BMW NBT Head Unit



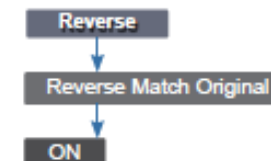
※ Move optical cable to the
Provide quadlock harness

Basically
Using this way

※ In case of Installation
with the OEM Camera
It Should Be Set



The Rear Camera Image will be
comes black some times
When Shift Gear R



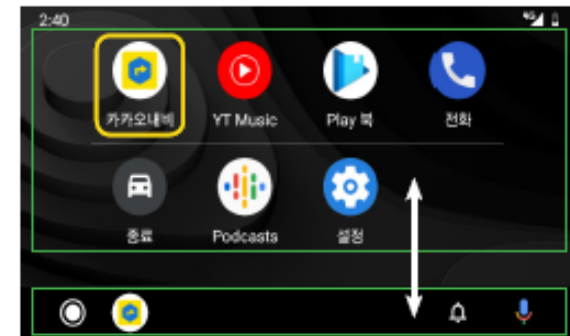
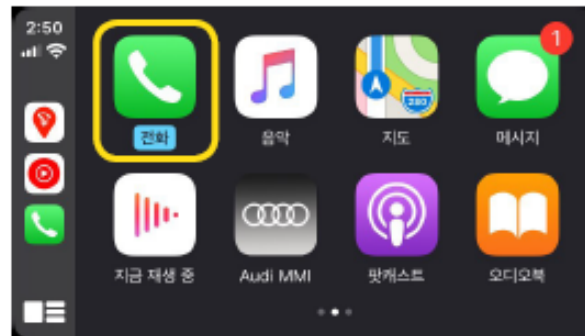
Activation by original buttons



BMW i-Drive Button



Steering Wheel Buttons



Button	Function	Operation	Remarks
1 Manu	Changing Modes	Press the button 3 seconds	Order : OEM → Car Play
↕ 3 Dial	Move the pointer Left or Right	Turn the dial Move Left or Right	Apple Car Play Function
			Google Android Auto
↔ Dial	Move the pointer Up or Down	Move the Dial Long time	Apple Car Play Function
			Google Android Auto
4 Dial	"Sir"	Press the button 3 seconds	Apple Car Play Function
2 Back	Go back	Press the button short time	Apple Car Play Function
	Restart	Press the button 5 seconds	Google Android Auto
			You can use this function when you get in trouble

Android User Interface (Main Page)

Airplay (Apple I-phone mirroring) <WIFI>



It is connected by wifi signal

- Turn on the wifi on the i-phone
- Select Carplayxxxxxx
(The wifi name might be deffent) and connect
- Select "Air play" in the "i-Phone Control Center"
- The smart phone screen will be copy on the car screen

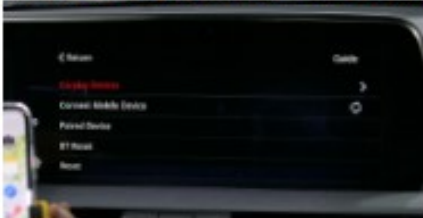
WireAuto (Android Auto) <Cable>



Apple Carplay Wireless,Cable



WirelessDev Setting (Bluetooth)



Wireless Carplay Settings (Bluetooth)

※ Only (Apple i-Phone)

USB Player (Media,Music)

HDMI IN PUT



Android Mirroring <Cable>



Setup <Please Check Next Page>

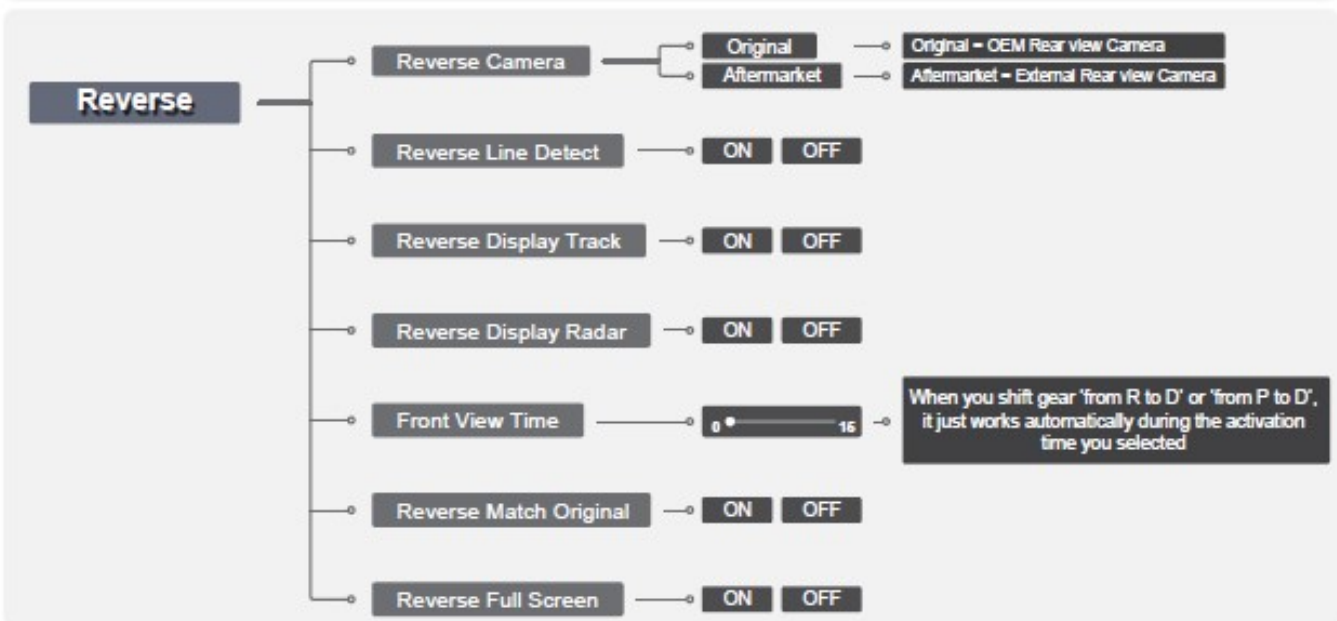
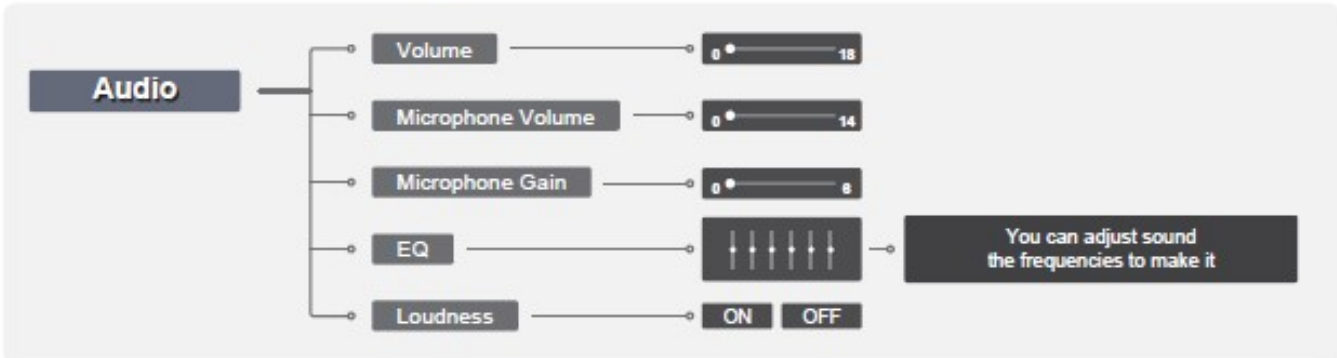
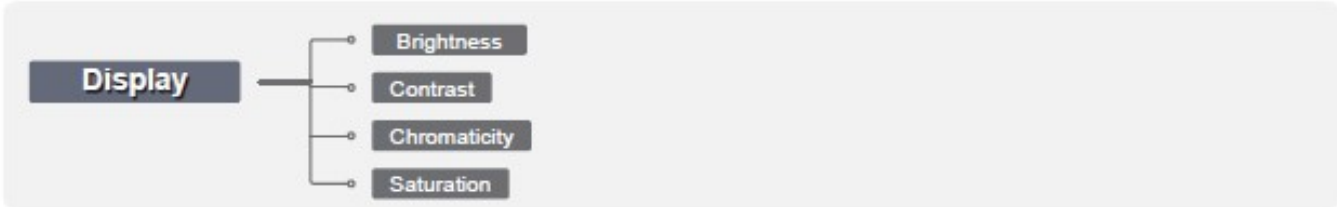
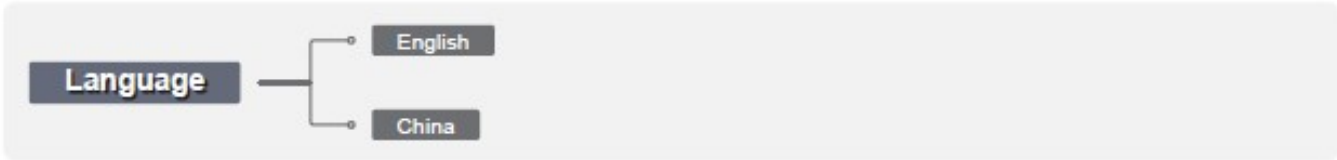


Front Camera



When it installed front view camera
The user can check front view camera image with it

Settings <System>



Settings <System>



Right Drive ON OFF ON - Left Steering Wheel
OFF - Right Steering Wheel

Camera Mirror ON OFF

Switch L/R Key to D/U Key ON OFF

Wheel key swap

- No swap
- Swap
- Invalid

Carplay Left Scrap

Carplay Left Scrap

Software Update

Download Update File

<http://indiwork.co.kr/a-link-firmware/>

- System Update
- MCU Update
- Logo Image Update
- Carplay icon Update

- Copy the update file "ISPBOOOT.BIN" to the root directory of USB storage.
 - Plug in the USB storage on the carplay box USB port
 - Select the "System update" or Press the BACK button 5sec "It will be restart and start update automatically"

Please. Never power off the box on updating

- Copy the update file "Upgrade.bin" to the root directory of USB storage.
 - Plug in the USB storage on the carplay box USB port
 - Select the "MCU update"

Please. Never power off the box on updating

Logo Image file format
 File Name : "no logo.bmp" Size : 800 x 480
 - Copy the update file "no logo.bmp" to the root directory of USB storage.
 - Plug in the USB storage on the carplay box USB port

Carplay icon Image file format
 File Name : "no cp_back.png" Size : 250 x 250
 - Copy the update file "no logo.bmp" to the root directory of USB storage.
 - Plug in the USB storage on the carplay box USB port