

Car Compatibility Chart

Car Models	CODE NAME	Production Year
1 Series	F20,F21	2013 ~ 2016
2 Series	F22	2017 ~ 2018
3 Series	F30,F31,F34 (3GT)	2015 ~ 2019
4 Series	F32,F33,F36	2013 ~ 2019
5 Series	F10,F11,F07 (5GT)	2012 ~ 2018
6 Series	F12,F13	2013 ~ 2018
7 Series	F01,F02	2012 ~ 2018
X3	F25	2012 ~ 2018
X4	F25	2014 ~ 2018
X5	F15	2014 ~ 2018
X6	F16	2015 ~ 2018

Car Models	CODE NAME	Production Year
i3		2013 ~ 2017
i8		2014 ~ 2017

Car Models	CODE NAME	Production Year
MINI Cooper	F56,F57	2014 ~ 2018
MINI Countryman	F60	2015 ~ 2017
MINI Clubman	F54	2015 ~ 2017



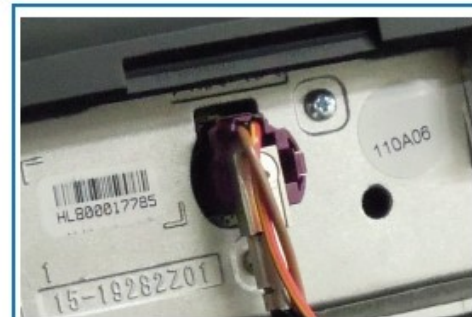
BMW 1 Series (F20)



BMW 5 Series (F10)



BMW X5 (F15)



Screen LVDS Cable



Main User Interface Design

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

The SCB-NBT supports the BMW original screen equipped with '6-pin LVDS round connector' only.

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

Components



Basic Type Main Harness
(GPBMW1901B-NBT-V1)



LVDS Cable



AV,USB Cable



ANTENNA

Option Parts (It must be checked Main harness)

Main Harness
BMW F30 3 Series



Main Harness



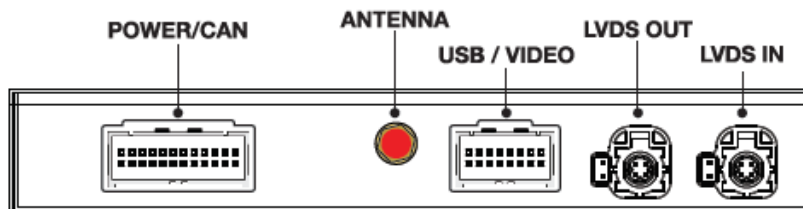
MIC Harness

Main Harness
BMW i3

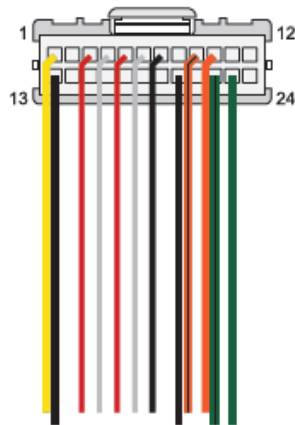


Main Harness

Body Connector specifications

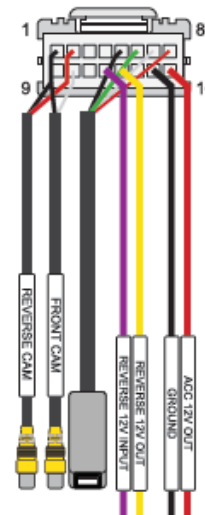


Basic Type Main Harness



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

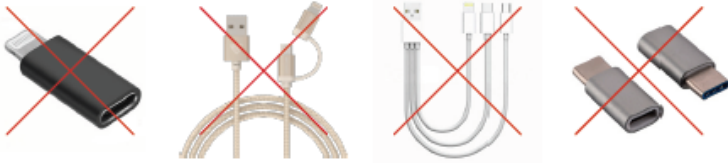


AV CABLE			
1	CVBS_GROUND	9	
2	REVERSE_CAM_VIDEO_INPUT	10	FRONT_CAM_VIDEO_INPUT
3		11	
4	GROUND_SHIELD	12	REVERSE_12V_INPUT
5	USB_GND	13	REAR_12V_POWER_OUT
6	DATA +	14	
7	DATA -	15	GROUND
8	5V POWER	16	12V(ACC)_OUT

LVDS CABLE



Full Installation Diagram <BASIC TYPE>



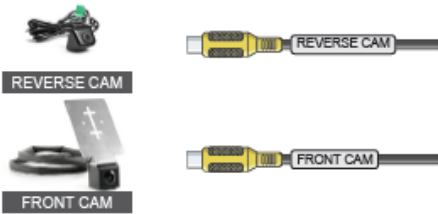
We recommend using for each phone manufacturer genuine cable
Please. Never using "Adapter Type and Multi cable"

Apple Car Play
Apple i-phone

Android Auto
Gogle Android



AV Cable

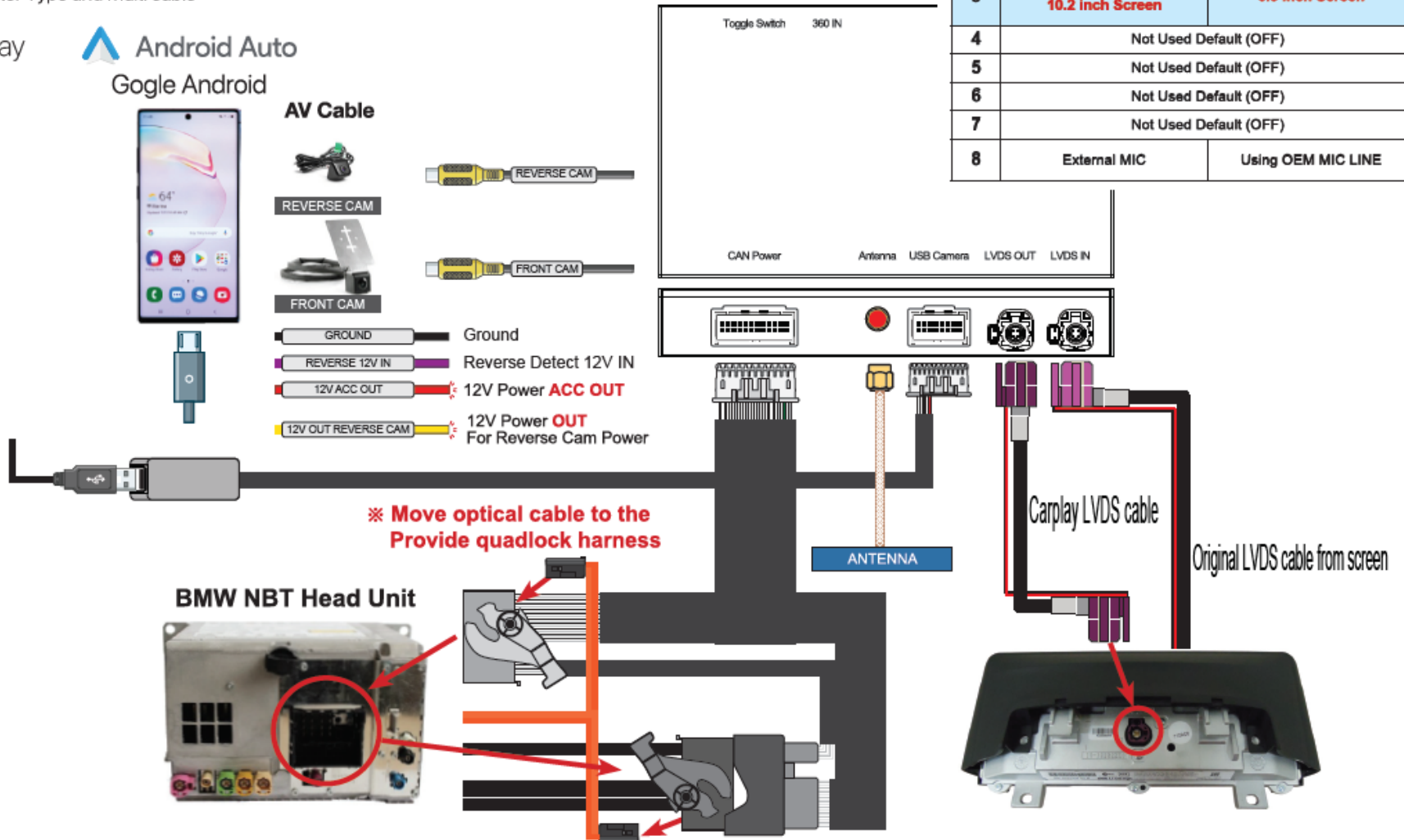


- GROUND Ground
- REVERSE 12V IN Reverse Detect 12V IN
- 12V ACC OUT 12V Power ACC OUT
- 12V OUT REVERSE CAM 12V Power OUT For Reverse Cam Power

DIP Switch Settings



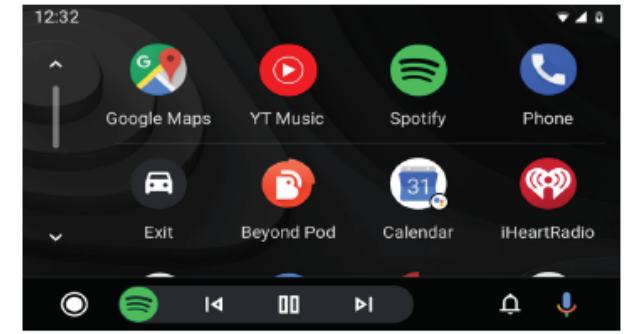
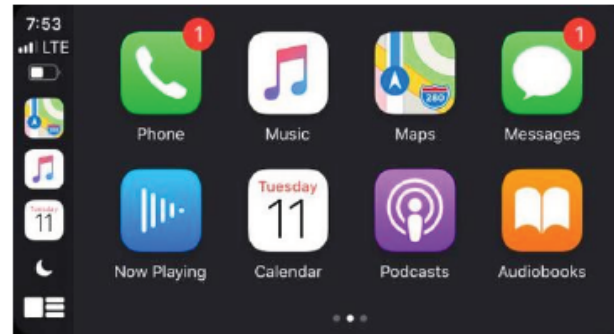
PIN	ON (▼)	OFF (▲)
1	Used Default (ON)	
2	Used Default (ON)	
3	8.8 Inch Screen 10.2 Inch Screen	6.5 Inch Screen
4	Not Used Default (OFF)	
5	Not Used Default (OFF)	
6	Not Used Default (OFF)	
7	Not Used Default (OFF)	
8	External MIC	Using OEM MIC LINE



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
 Dial	Move the pointer	Turn the dial Move Left or Right	Apple Car Play Function
			Google Android Auto
4 Dial	"Siri"	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 different) 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>

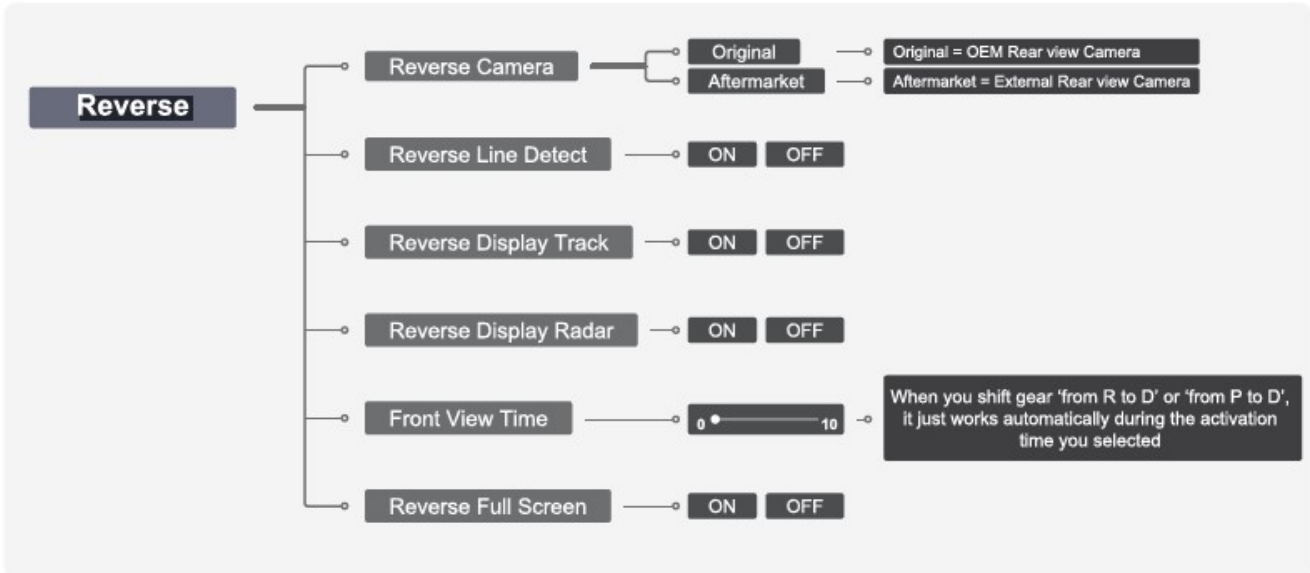
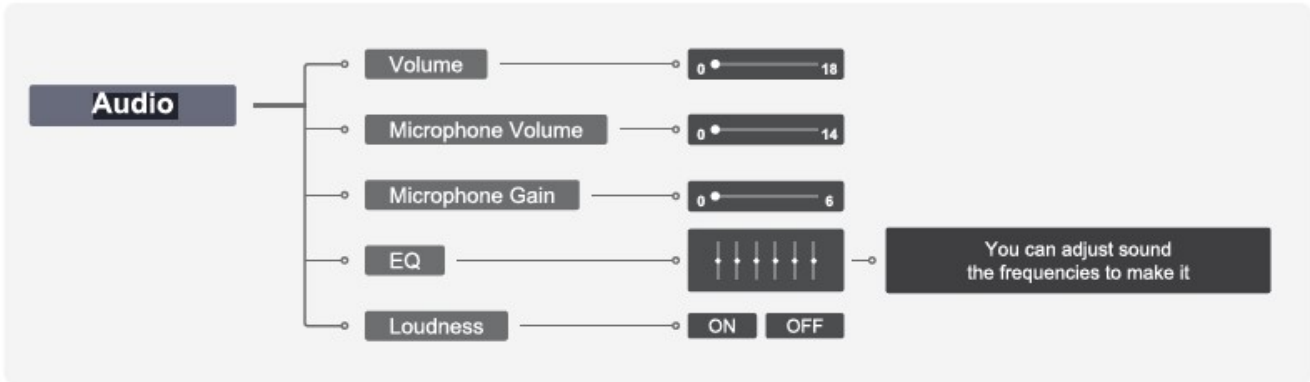
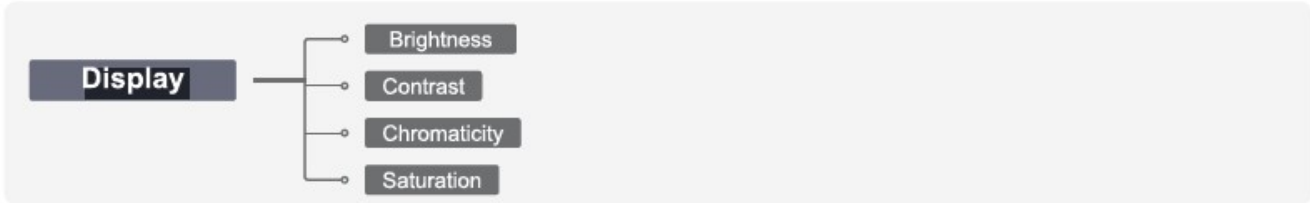
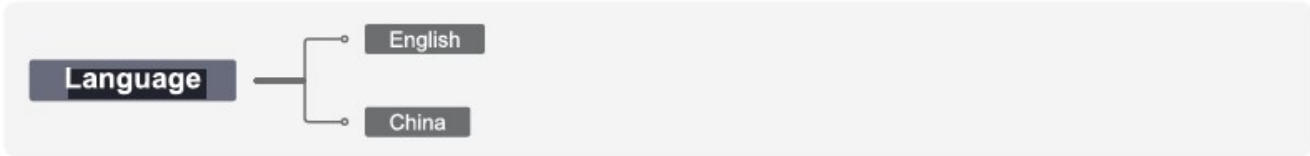


Front Camera



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

Settings <System>



Settings <System>



- Right Drive**
 - ON = Left Steering Wheel
 - OFF = Right Steering Wheel
- Camera Mirror**
- Switch L/R Key to D/U Key**
 -
 -
- Wheel key swap**
 - No swap
 - Swap
 - Invalid
- Carplay Left Scrap**
- Carplay Left Scrap**

Software Update

- System Update**
 - Copy the update file "ISPBOOT.BIN" to the root directory of USB storage.
 - Plug in the USB storage on the carplay box USB port
 - Select the "System update" or Prees the BACK button 5sec "It will be restart and start update automatically"
 - Please. Never power off the box on updating**
- MCU Update**
 - 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 Update**
 - 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 Update**
 - 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

Download Update File