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RELEASE DATE: 2011.03.15  
Model: PATA-STD-MAIN-V3  
Product code: PATA-STD-MAIN-1102-001

## **BMW 1series**

Compatible with Non I-DRIVE vehicles  
having a closet box on the dash board



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## 3. Installation

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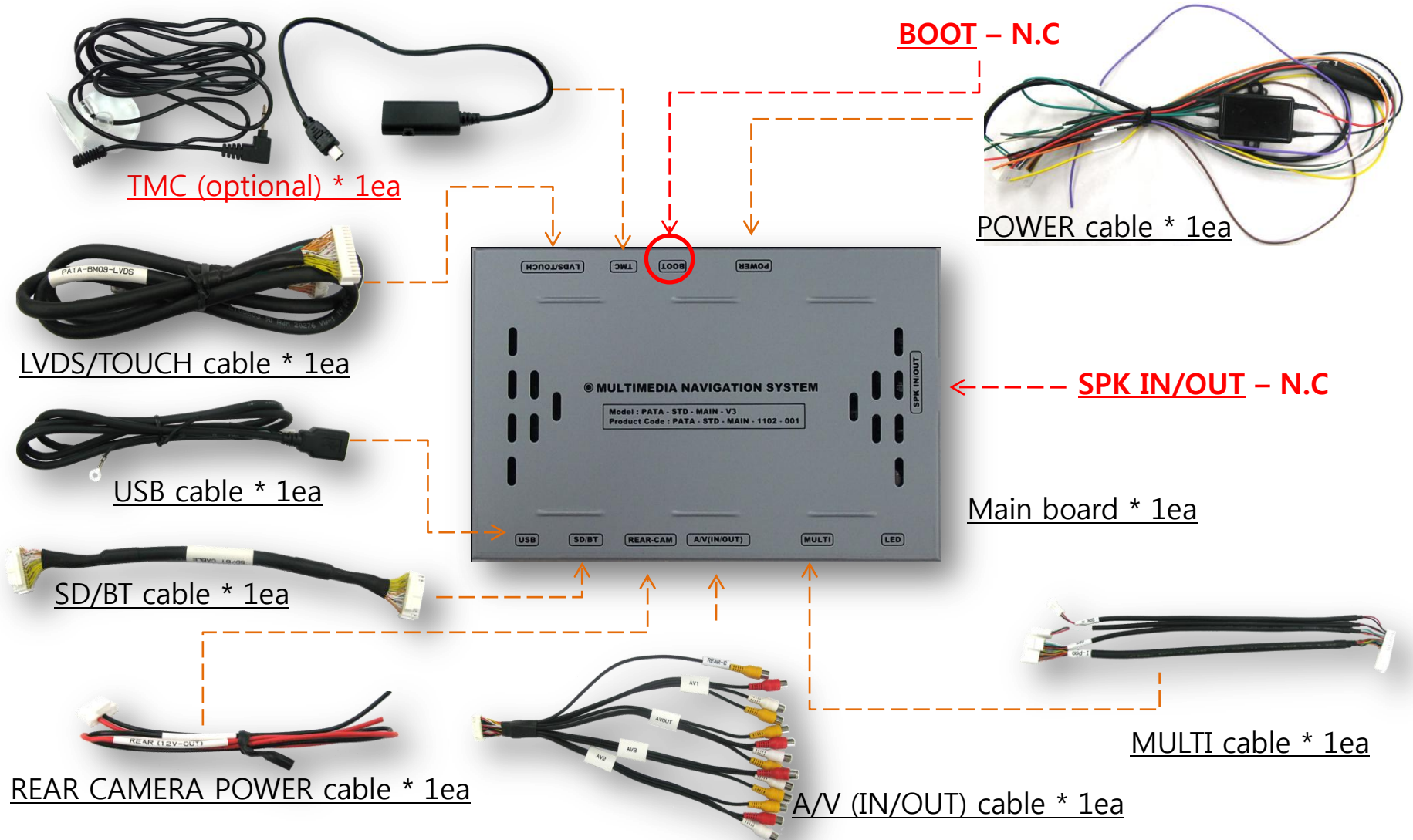
# 1.1 Specification

| INDEX          | CONTENTS   | INDEX                 | CONTENTS  |
|----------------|--|-----------------------|---|
| CPU            | Telechips TCC8900 (ARM11), 600MHz                          | Main memory           | ROM NAND Flash MLC 128MB, DDR2 256MB  |
| OS             | Windows CE 6.0   | External memory       | SD/SDHC (TOSHIBA SDHC Class6)   |
| Display        | Backlit TFT LCD, 8", 800*480 WVGA 16bpp, 64k color         | USB                   | 2.0 (support for recognition of HOST, CLIENT )  |
| GPS            | U-BLOX5, 50 channels, NMEA 0183, 9600/1 (board rate/port)  | SD card               | SDHC (~32GB)  |
| Audio          | MP3, WMA, MP2, OGG, AAC, M4A, MA4, FLAC, APE, 3GP, WAV, RA | Movie                 | AVI, WMV, MPEG, MP4, RMVB, TS, M2TS, TP, MOV, VOB, MKV, 3GP, 3GA, ASF, DIVX, TRP, FLV, RM, DAT, M4V, M2V, MPG |
| Power          | AC power - DC 12V  | Operation Temperature | -20°C ~ 70°C  |
| Touch panel    | Non glare panel  | Speaker               | 1watts, 2 way stereo  |
| External AV IN | Available  | External AV OUT       | Available   |

## 1.2 Features

- *800 \* 480 high definition display*
- *8-inch wide screen*
- *Latest CPU optimized for 3D graphic map*
- *Finishing material quality matching with OEM vehicle*
- *IPOD function chosen by Apple*
- *TMC(Traffic Message Channel), user-intended function*

# 1.3.1 Components



## 1.3.2 Components



8 inch monitor \* 1ea



iPOD cable \* 1ea (optional)



GPS \* 1ea



Screws \* 10ea



Speaker cable \* 1ea



Adhesive \* 1ea



SD card/ Bluetooth interface \* 1ea

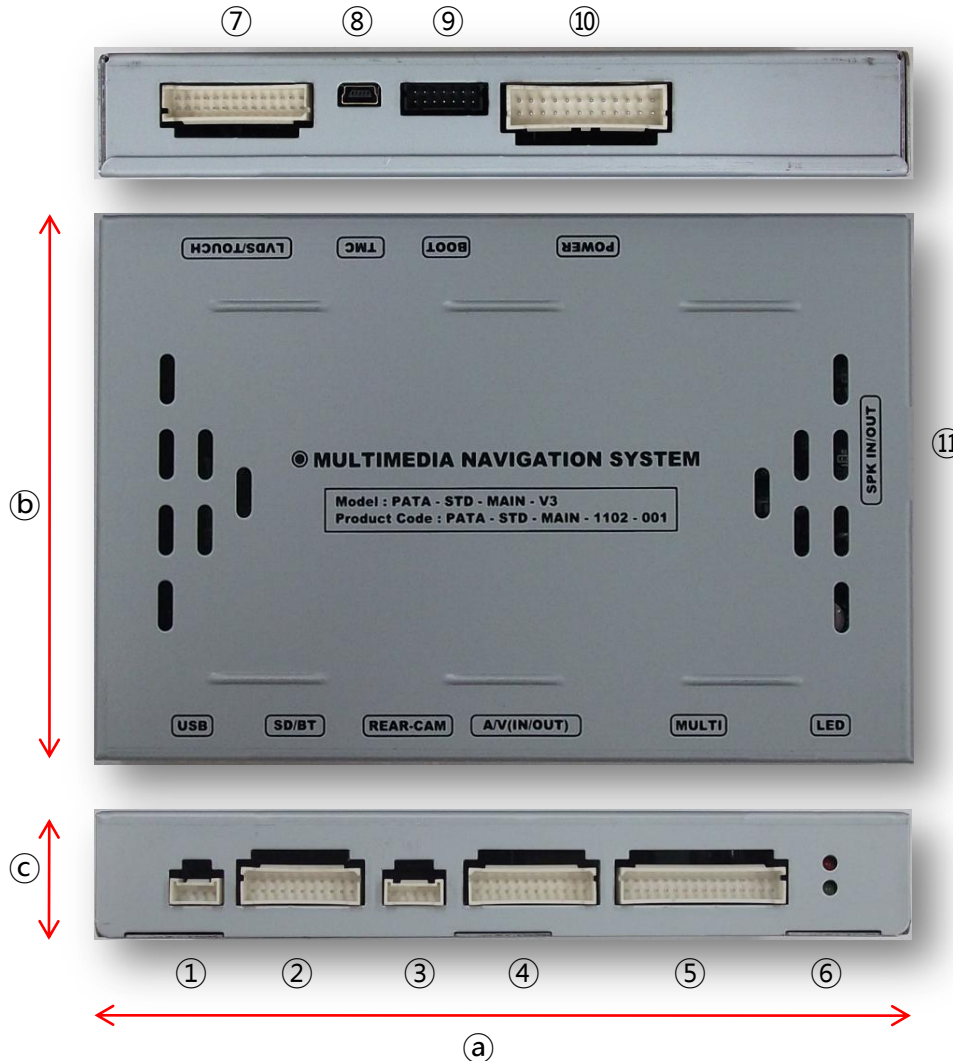


Microphone cable \* 1ea



Magnetic base plate for GPS \* 1ea

# 1.4.1 Exterior *main board*

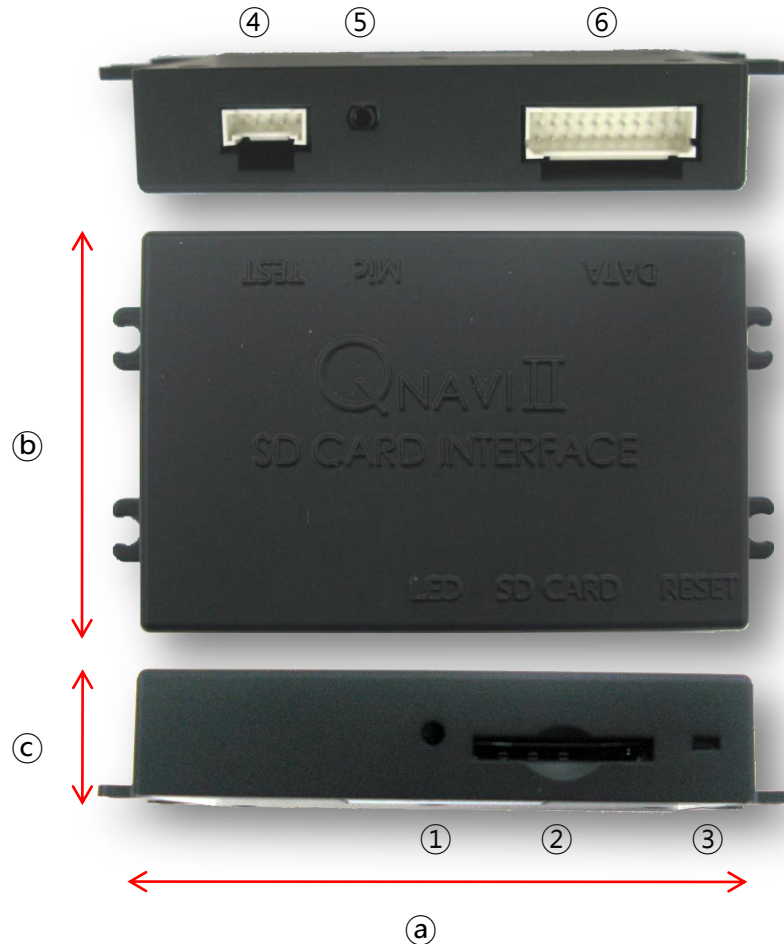


## Dimension/

① **166mm** \* ② **108mm** \* ③ **25mm**

- ① **USB** USB cable connector
- ② **SD/BT** SD card slot/bluetooth sub board connector
- ③ **REAR-CAM** power cable of rear camera connected
- ④ **A/V (IN/OUT)** AV cable connector
- ⑤ **MULTI** multiple cable (including Ipod cable and speaker cable) connector
- ⑥ **LED**
- ⑦ **LVDS/TOUCH** cable (connecting main board and LCD) connector
- ⑧ **TMC (Traffic Message Channel)** traffic message receiver (transmitted on the real-time basis)
- ⑨ **BOOT** Not for driver's use; ONLY for manufacturer
- ⑩ **POWER** power cable connector
- ⑪ **SPK IN/OUT** NOT for use at the moment

## 1.4.2 Exterior *SD card/ Bluetooth interface*



Dimension/ ① 87mm \* ② 57mm \* ③ 18mm

- ① LED
- ② SD CARD SD card slot
- ③ RESET Not for driver's use; ONLY for manufacturer
- ④ TEST Not for driver's use; ONLY for manufacturer
- ⑤ Mic. microphone cable connector
- ⑥ DATA cable (connecting main board and navigation) connector

## 1.4.3 Exterior *TMC cable*



TMC (Traffic Message Channel) function makes you informed of the traffic information at the moment on the real-time basis. To use this function, you have to buy this optional TMC cable. It is composed of two cables; one is a connector to the main board and the other is an antenna cable. TMC uses FM Radio Data System (RDS). Data messages are received silently and decoded by a TMC-equipped car radio or navigation system, and delivered to the driver in a variety of ways.

### Benefits for users

- Updated traffic information, delivered in real time
- Instant knowledge of accidents, roadworks and traffic jams
- Filtered information only for the immediate route
- Information in user's own language
- High-quality digital transmission
- Europe-wide compatibility of receivers
- Free or low-cost services right across Europe

- ① Connector to main board
- ② Port for its own antenna. Insert part ③ of antenna cable to this.
- ③ This part must be inserted to part ②.
- ④ Receiver of the antenna

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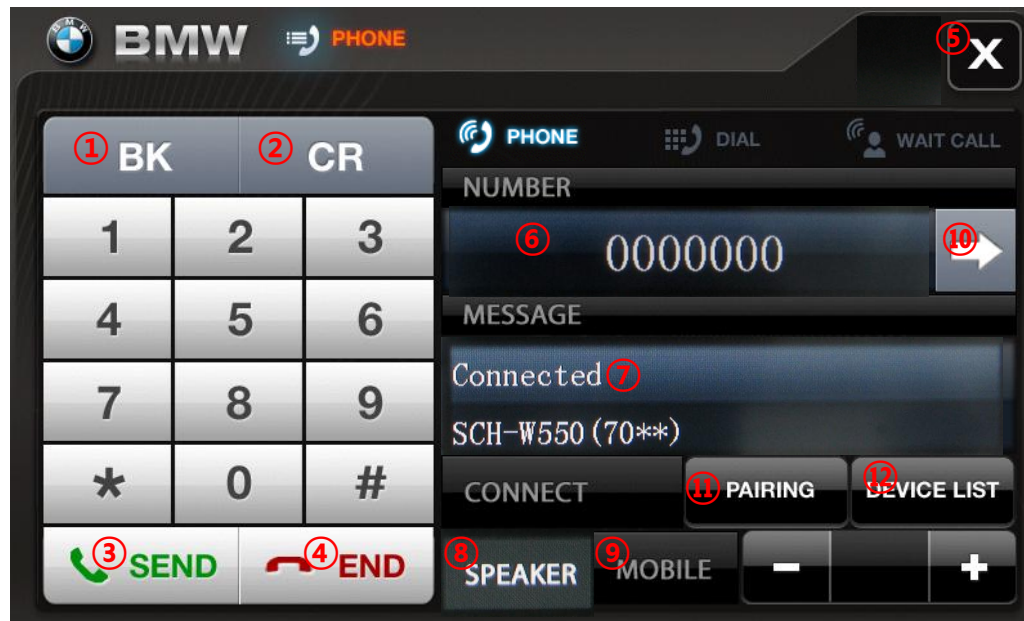
For more information, refer to TMC website (<http://www.tmcforum.com/en/home.htm>)

## 2.1 User interface / HOME



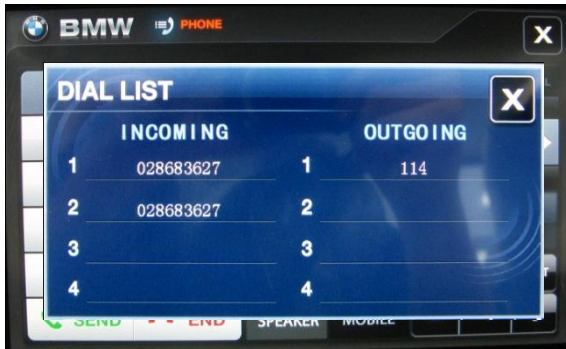
- ① **NAVI** use of navigation
- ② **PHONE** phone-call using blue tooth
- ③ **MEDIA** playback of media files from various sources; e.g. DVD, iPod, USB, and so on.
- ④ **SETUP** setup of user environment
- ⑤ **iPOD connection signal** displaying iPOD connection status
- ⑥ **USB connection signal** displaying USB connection status
- ⑦ **Bluetooth device connection signal** displaying bluetooth device connection status

## 2.2.1 User interface /PHONE



- ① **BK** (BACK) deleting one number
- ② **CR** (CLEAR) deleting whole number
- ③ **SEND** making a phone call
- ④ **END** hanging up the phone
- ⑤ **exit button** getting back to the main menu
- ⑥ **NUMBER** space presenting inputted phone numbers
- ⑦ **MESSAGE** space presenting the status sending and receiving a call/the status of connection with bluetooth
- ⑧ **SPEAKER** infeasible at the moment
- ⑨ **MOBILE** setting up the audio volume of the mobile
- ⑩⑪⑫ continued on the next page

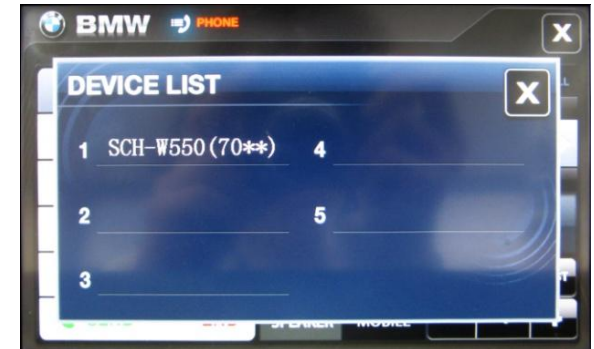
## 2.2.2 User interface /PHONE



⑩ **DIAL LIST** presenting user's dial list.  
On touching this, there will be a window as shown above.



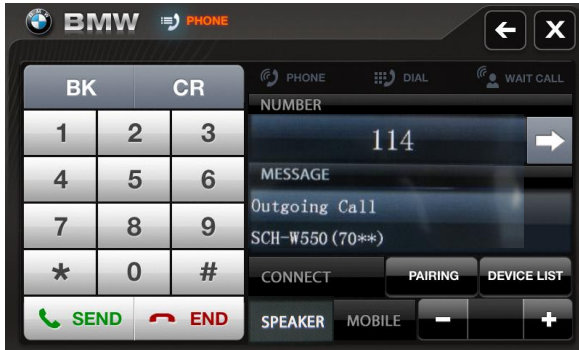
⑪ **PAIRING**  
When you try to connect the bluetooth for hands-free call, you will see a window alerting to enter your password.



⑫ **DEVICE LIST** history of connected devices.  
Current connection is displayed as yellow text. A window comes up and show that history as shown in the first picture. And then if you choose an item on the list, you can control the device status as shown in the second picture.

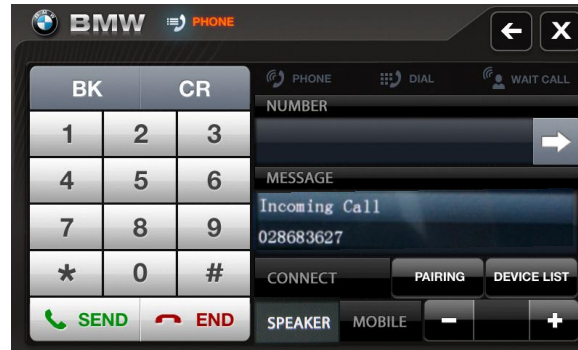
## 2.2.3 User interface /PHONE

Screen displays along the respective call modes



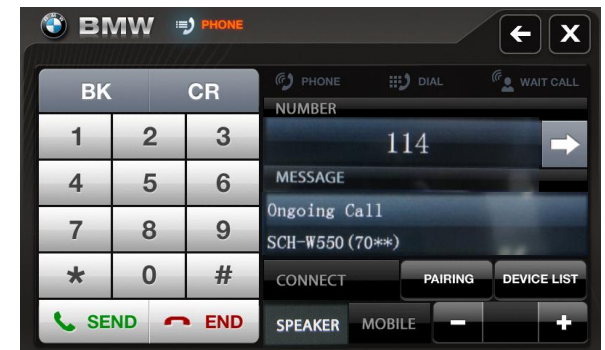
### Outgoing Call

Trying to send a call



### Incoming Call

Standby mode of incoming call.  
In addition to touching this "SEND" button to receive a call, you can do that by clicking the button located in the steering wheel.



### Ongoing Call

While talking over the phone



## 2.3 User interface / *MEDIA*



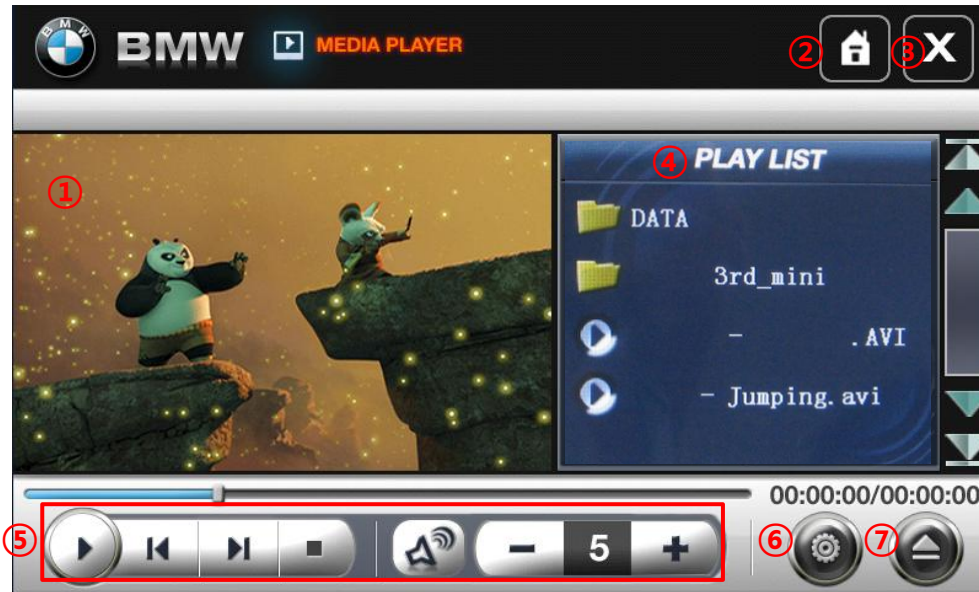
- ① **MP3 PLAYER** : playback of mp3 files inputted from USB
- ② **MEDIA PLAYER** : playback of media files inputted from USB
- ③ **iPOD** : playback of media files read from iPod
- ④ **DVD** : playback of inputted DVD
- ⑤ **AV1** : playback of audio/video inputted source
- ⑥ **AV2** : infeasible at the moment
- ⑦ **back button** : going back to main menu

## 2.3.1 User interface / MP3 PLAYER



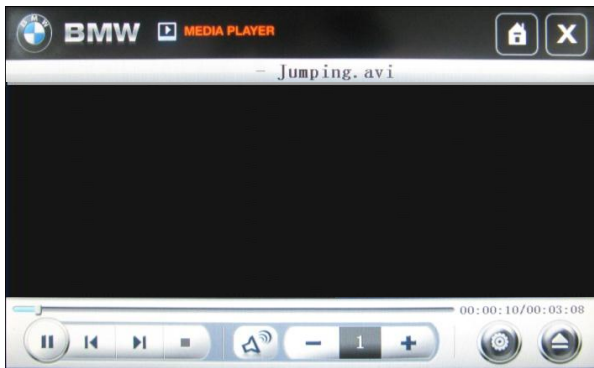
- ① **album image** : recognizing the album image automatically (If not, empty space will appear.)
- ② **FOLDER** : location of the mp3 file playing back at the moment
- ③ **FILE** : name of the mp3 file playing back at the moment
- ④ **EQUALIZER** : adjusting range and sound quality of the audio file playing at the moment
- ⑤ **REPEAT** : repeating function (option : only one file, whole file, making the function able/unable)
- ⑥ **RANDOM** : playing random function (option : NORMAL / RANDOM)
- ⑦ **HOME button** : going back to the main menu while the mp3 file is playing
- ⑧ **EXIT button** : going back to the main menu after exiting mp3 mode
- ⑨ **PLAY LIST** : list of available mp3 files (If you touch the name of a file, it will play.)
- ⑩ **buttons regarding playback** : pause/playback, backward, rewind, stop, fast-forward, forward, sound volume control (from left to right)

## 2.3.2 User interface / *MEDIA PLAYER*



- ① **Screen** : If you touch the screen after a chosen file is played, the media file will be displayed as a full screen without the PLAY LIST and the control bar. and if you touch the screen on full screen mode, control bar will appear at the bottom of the screen; while the media file will appear at the middle of the screen in small-sized screen.
- ② **HOME button** : going back to the main menu while the media file is playing
- ③ **EXIT button** : going back to the main menu after exiting media player mode
- ④ **PLAY LIST** : list of available media files (If you touch the name of a file, it will play.)
- ⑤ **playback buttons** : pause/playback, backward, forward, stop, sound volume control (from left to right)
- ⑥ **setup of user environment** : Watch the next page for more information.
- ⑦ **listup button** : If you touch this button, the PLAY LIST will appear as shown above.

## 2.3.2 User interface / MEDIA PLAYER



First display of the MEDIA PLAYER.

If you touch the button at the bottom right, the PLAY LIST will appear like the right picture.

If you touch the screen while the media file is playing as full screen, the control bar will appear at the bottom; the media file will play as small screen in the middle of the screen.



① If you want to see the subtitle, just touch the button in the control bar. And you can see the popup window shown as left.

② Then just touch the "SUBTITLE ON" to display the subtitle.

③ And you can control the size of the subtitle below.

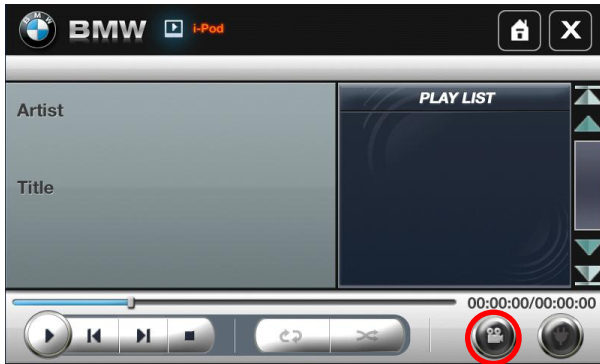
④ In this section, you can check the version information of the media player.

## 2.3.3 User interface / iPOD

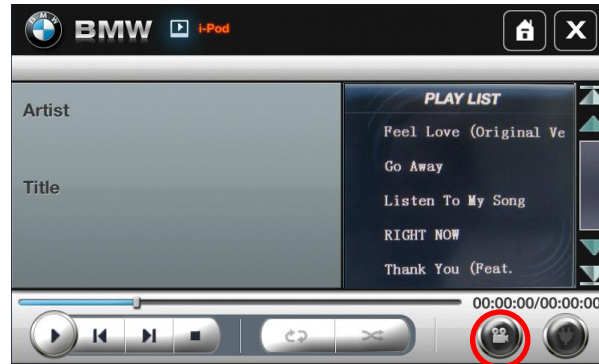


- ① **Artist** : displaying the artist of current media file
- ② **Title** : displaying the title of current media file
- ③ **HOME button** : going back to the main menu while file read from iPod is playing
- ④ **EXIT button** : going back to the main menu after exiting iPod mode
- ⑤ **PLAY LIST** : list of available media files (If you touch the name of a file, it will play.)
- ⑥ **playback buttons** : pause/playback, backward, forward, stop, repeat, random (from left to right)
- ⑦ **repeat function** : able to select whether a media file repeat or not. (option- cancellation, repeat one, repeat all)
- ⑧ **random function** : able to choose to play files randomly or not.
- ⑨ **music/movie icon** : able to choose the type of a media file (option-music, movie)
- ⑩ **status of connection of iPod** : able to choose to access a media files in iPod

## 2.3.3 User interface / *iPOD*



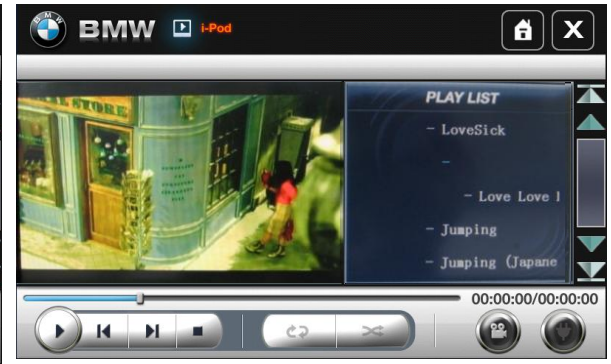
If you touch the button in the marked area when you enter the **iPOD** mode, you can access a media file in iPOD.



And once you touch that, you can see the play list as the left picture.

Then if you select a mode you want to use by touching the button in the marked area, you are ready to access music files or video files.

At that time, select one in the list. Then you can see that the chosen file play as the right picture.



## 2.3.4 User interface / DVD & AV1

Remark/ The model of DVD and AV1 has not been determined yet so far.



### DVD

If you touch the screen while a file is displayed as full screen mode, the control UI for DVD will appear.

|        |                                 |
|--------|---------------------------------|
| POWER  | HOME : go back to the main menu |
| ENTER  | MENU                            |
| RETURN | TITLE                           |
| LIST   | AUDIO                           |
| ZOOM   | REPEAT                          |
| SETUP  |                                 |



### AV1

If you touch the screen while an external-input source is displayed as full screen mode, the control UI will appear. (unsettled so far)

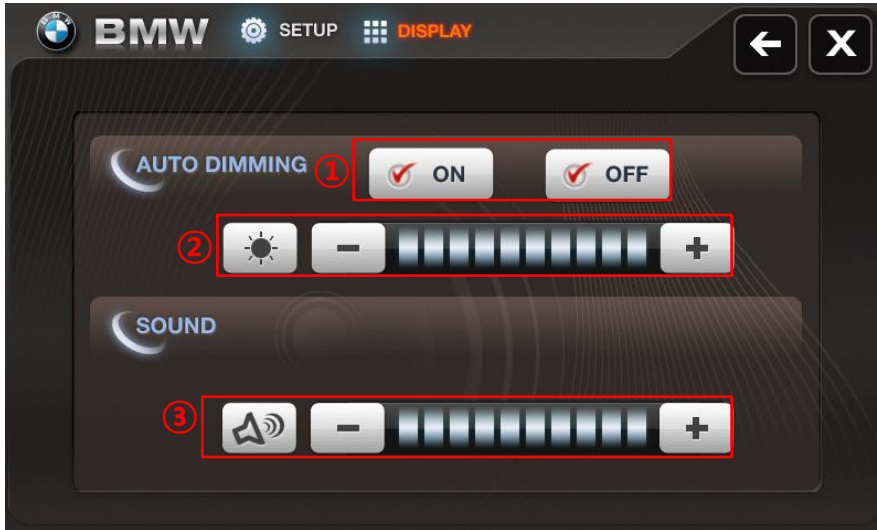
|                                 |  |
|---------------------------------|--|
| POWER                           |  |
| HOME : go back to the main menu |  |
| MENU                            |  |
| MUTE                            |  |
| RETURN                          |  |
| 0~9                             |  |

## 2.4 User interface / *SETUP*



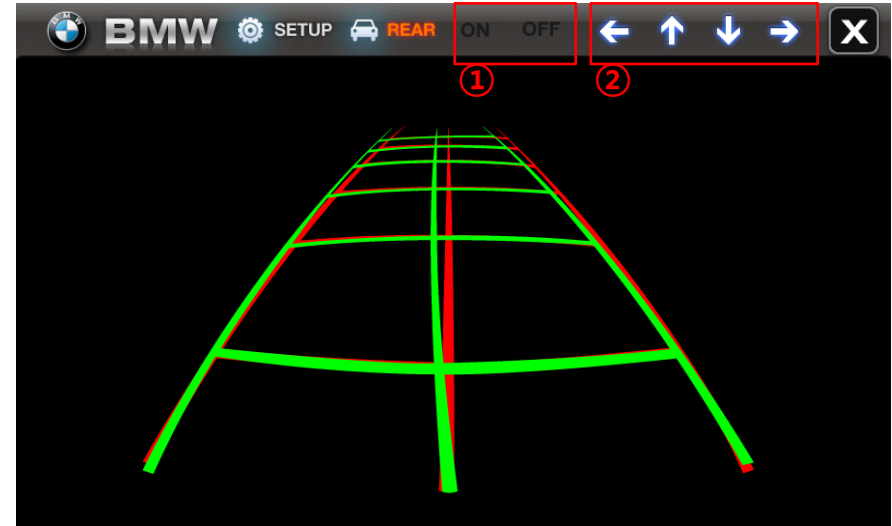
- ① **DISPLAY/SOUND** Control of brightness and volume of system sound
- ② **REAR CAM** Control of rear parking guide line' s position and choosing whether to use the rear parking guide line or not
- ③ **INTERNET** Infeasible at the moment
- ④ **OTHER** Setup of the initial screen display when the system get power-on.
- ⑤ **VERSION** Check and upgrade of the program version, reset of the program, touch calibration

## 2.4.1 User interface / *DISPLAY/SOUND & REAR CAM*



### DISPLAY/SOUND

- ① AUTO DIMMING (so far infeasible)
- ② Control of brightness
- ③ Control of sound volume



### REAR CAM

- ① Choose whether to use the rear parking guide line or not
- ② Control of the rear parking guide line's position

\*\* You can detect the rear view either by CAN signal or by wiring.

## 2.4.2 User interface / OTHER & VERSION



### OTHER

- ① START PROGRAM : Selection for the starting program on power-on (HOME : starting with main menu)
- ② PARKING SETTING (Infeasible at the moment - deactivated)
- ③ LANGUAGE (only for ENGLISH so far, applicable later on)



### VERSION

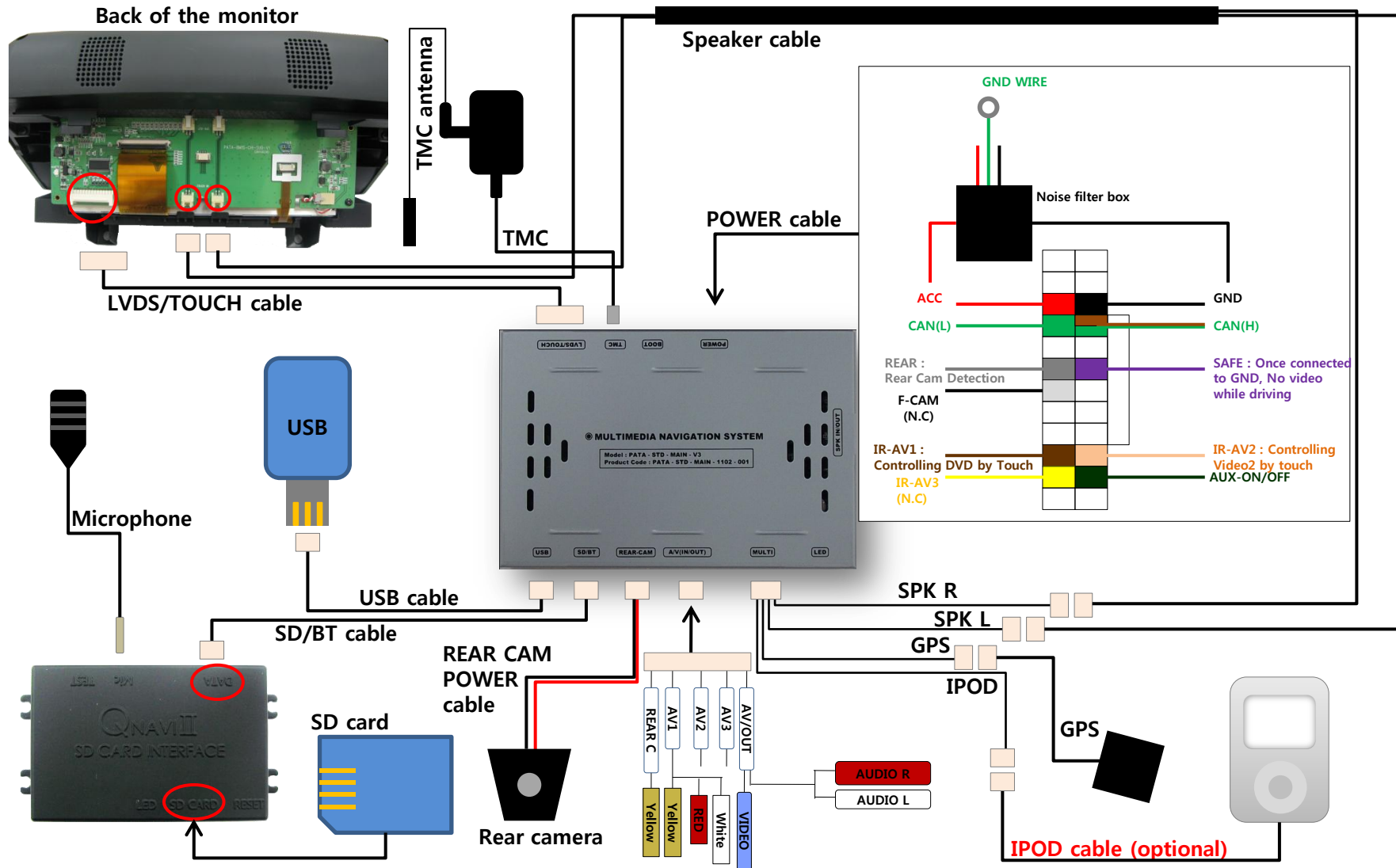
- ① VERSION INFORMATION : Check of valuable information regarding version
- ② UPGRADE : Upgrade of the program  
If you choose the "UPGRADE" button, you will move to that stage as shown below.
- ③ INITIAL : Reset
- ④ TOUCH CALIBRATION



## 3.1 Cautions on installation

- Ignition key should be taken off before starting installation, interface power connection must be the last step in installation.
- Power cable should be separated when connecting interface.
- Should be no any electronic devices or magnetic pole around installation place.
- All steps of installation should be done by well-trained specialist.
- Dismantling without manufacturer's permission can not be guaranteed, (No permission to break attached label on the board.)
- Kindly check all parts are in the box, when receiving the product, if anything missing, inform the supplier or manufacturer of that.
- According to our sales policy, any problems caused by user's mistake, careless can not be guaranteed.

# 3.2 Installation diagram



## 3.3 Installation

### 3.3.1 Removing storage closet



1. This is the state before the installation starts  
You can see this above the head unit.



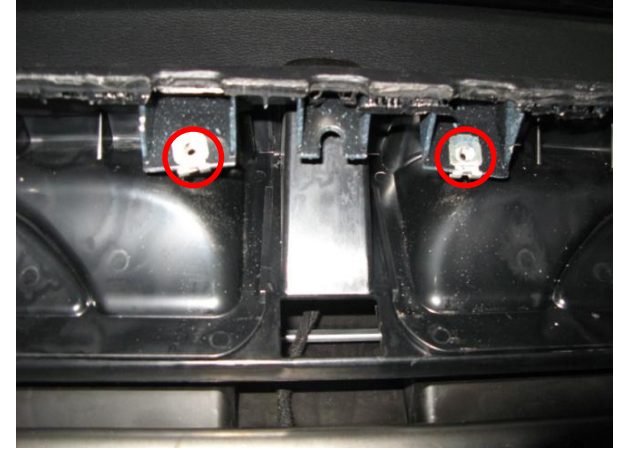
2. Open the lid of the closet box onto the dash board and remove the rubber part inside the closet shown in the marked area.



3. You can see the ventilating opening shown in the marked area. Pull it apart using a spatula. At that time be careful not to tear it down.

# 3.3 Installation

## 3.3.2 Pulling away screws

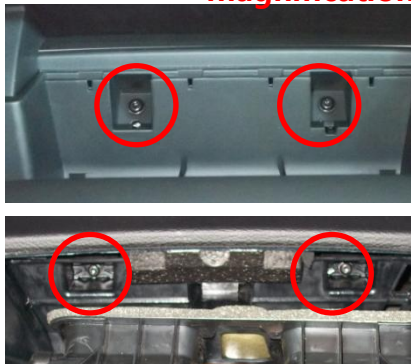


4. Remove 4 screws located in the marked area using T20 star-shaped tip. And get rid of the closet box.

5. After removing the closet box, it seems like a picture above.

6. Pull apart the 2 iron pieces located in the marked area.

**magnification**



**magnification**



## 3.3 Installation

### 3.3.3 Inserting the monitor



7. Insert 2 iron pieces in the marked area of the monitor's legs like the picture below.

**magnification**



8. Insert the monitor backwards in the cavity where the closet box is originally located. And put the ventilating opening into the spot where that is originally located.



9. Here is a picture of state install-finished.