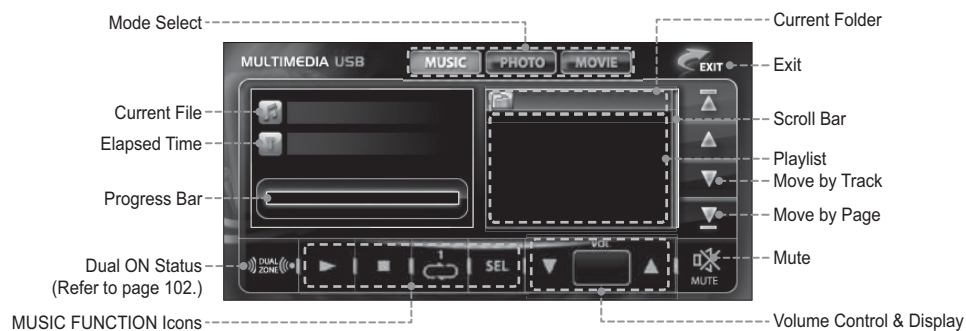




## USB (SD CARD)

### MUSIC Mode Main Screen



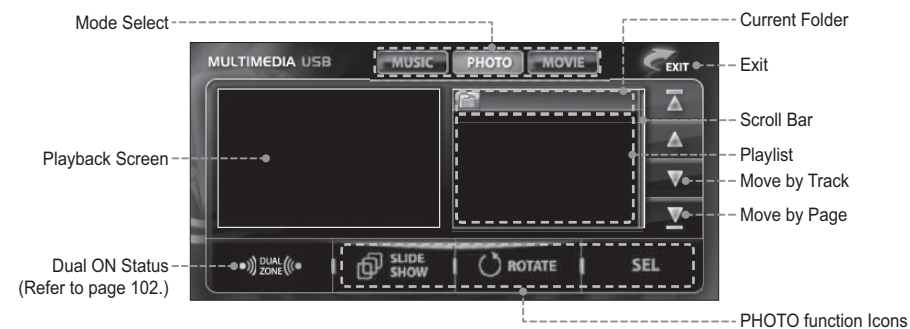
#### • MUSIC Function Icons

	Play/Pause
	Stops currently playing file
	After moving to the desired track, press <SEL> to play.
	Set Play to the desired mode. REPEAT 1: Repeat once. REPEAT ALL : Repeat all tracks REPEAT OFF : Turn Repeat off.



## USB (SD CARD)

### PHOTO Mode Main Screen

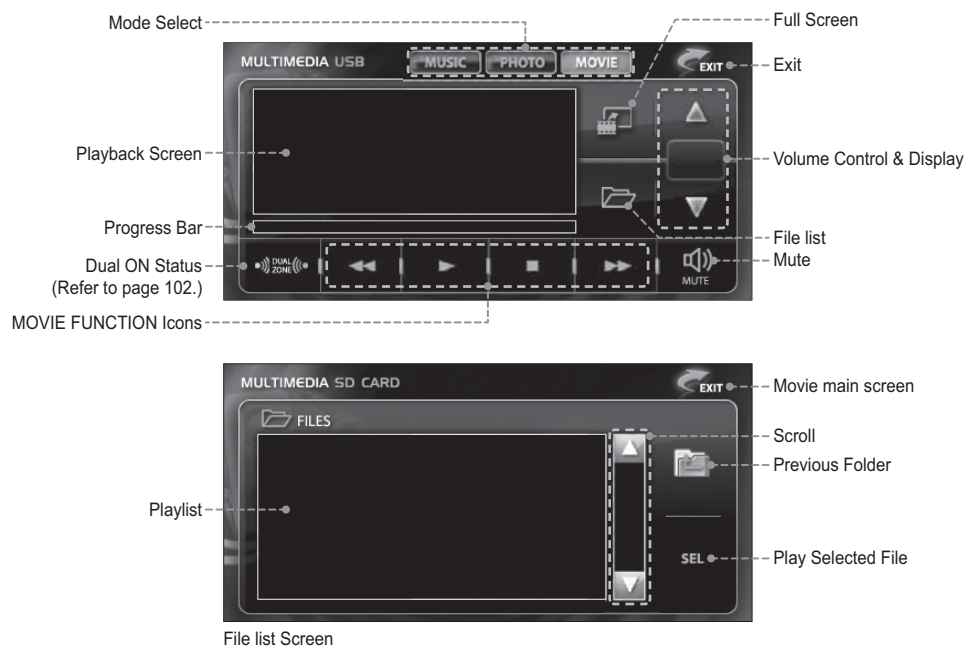


#### • PHOTO function Icons

	Slide Show Function (displays each photo for 3 seconds).
	Rotates the image being viewed (by 90°, 180°, 270°, or 360°).
	After moving to the desired image, press <SEL> to view. (Touch the playback screen to switch to full screen viewing mode.)

## USB (SD CARD)

### MOVIE Mode Main Screen

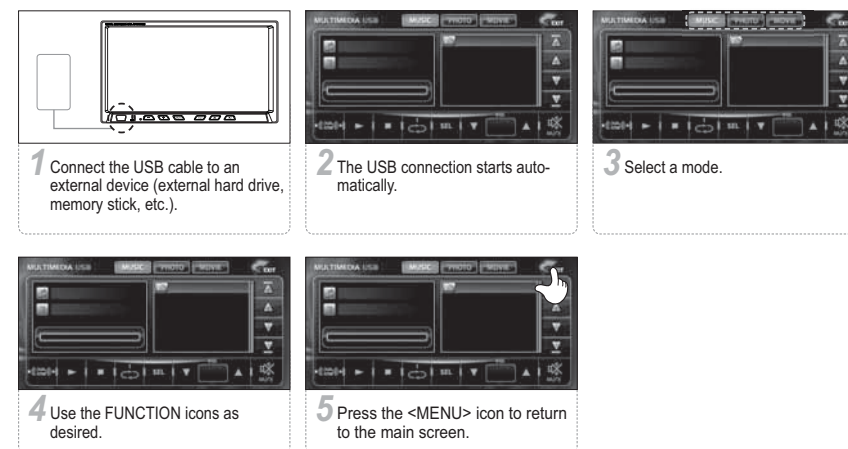


### MOVIE FUNCTION Icons

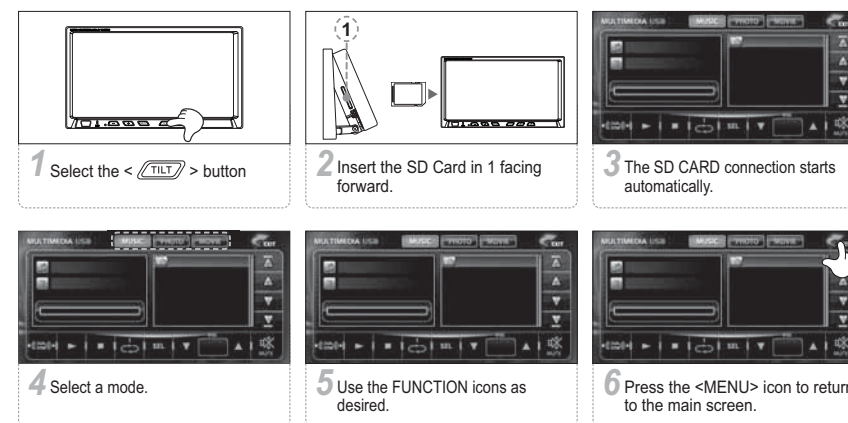
	Play/Pause
	Stops currently playing file.
	During playback, moves [backward/forward] by 5-second intervals.
	After moving to the desired file, press <SEL> to play. (Touch the playback screen to switch to full screen viewing mode.)

## USB (SD CARD)

### USB Simple Operation

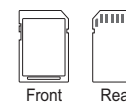


### SD CARD Simple Operation



• Inserting the SD CARD in the opposite direction can result in its damage, the liability for which lies solely with the user.

NOTE

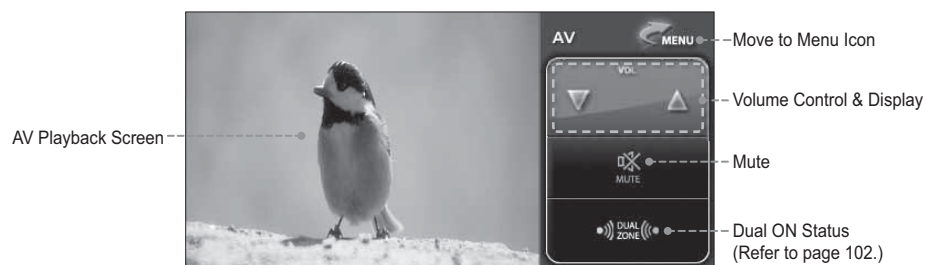




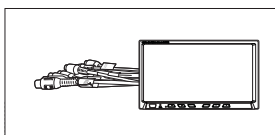
## AV

Connect to and use with an AV device such as a camcorder.

### AV Main Screen



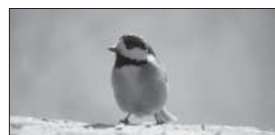
### AV Simple Operation



1 Connect the A/V Cable (6P) to the rear of the product and to the AUX VIDEO IN jack of a display device.



2 Select the <AV> icon.



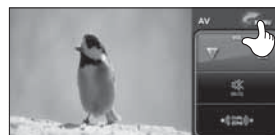
3 The connected screen appears.



4 Touch the screen to switch to the MENU screen.



5 Use the FUNCTION icons as desired.



6 Press the <MENU> icon to return to the main screen.

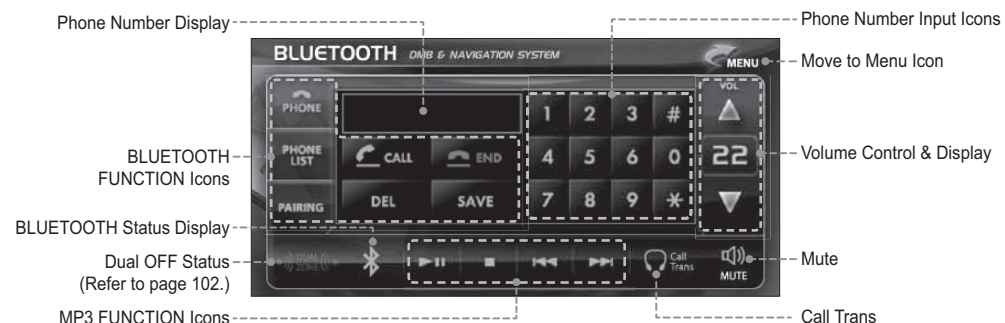


## BLUETOOTH

The BLUETOOTH Function is available only with BLUETOOTH-enabled mobile phones.

Refer to the Mobile Phone Manual for instructions regarding mobile phone BLUETOOTH connection. (Default password: 0000)

### BLUETOOTH Main Screen



### • BLUETOOTH Function Icons

	Use to make calls and enter phone numbers.
	Use to make a call via the Phone List or to delete content from the Phone List.
	Use to retry pairing. (Pairing is attempted automatically upon turning power on.)
	- Use to receive or make a call. - Use to activate call waiting and receive another incoming call during another call in progress. (This may differ by mobile phone specifications)
	Use to end a call. Press END when entering a phone number to clear the entire number.
	Use to delete an incorrectly entered phone number one digit at a time.
	Use to save a directly entered phone number or the phone number of an incoming call. (A total of six phone numbers can be saved in sequence.)
	Use to make calls via a mobile phone or Bluetooth. (Calls made via Bluetooth as default) • Receiving calls via mobile phone: conduct calls via mobile phone only. • Receiving calls via Bluetooth: calls emitted from the left driver-side speaker.

#### NOTE

• Bluetooth Status Display

CONNECTED : Turned on.

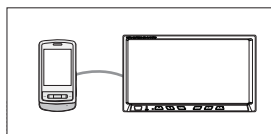
DISCONNECTED : Turned off.

## **BLUETOOTH**


The BLUETOOTH Function is available only with BLUETOOTH-enabled mobile phones.

Refer to the Mobile Phone Manual for instructions regarding mobile phone BLUETOOTH connection. (Default password: 0000)


### **BLUETOOTH Simple Operation**





**1** Connect the product with a mobile phone.




**2** Select <BLUETOOTH>.



**3** Select <PAIRING>.  
(PAIRING is attempted during a three-minute period.)  
<PHONE/PHONE LIST/PAIRING> are all available for use.  
• The indicator switches from  when the connection is made.  
• If PAIRING fails, the <PAIRING> icon can be pressed again to retry connection.



**4** Use the FUNCTION icons as desired.






**5** Press the <MENU> icon to return to the main screen.

- PAIRING is attempted automatically upon turning power on.  
(When pairing is established, connection to the last phone number called is made.)

#### **NOTE**

- PAIRING is attempted even if another mode is entered.
- If PAIRING is successful, the mode is maintained, and if it fails, it is retried over a period of three-minute.
- If PAIRING is not successful after the retry during the three-minute period, the failure mode is maintained.

### **PAIRING**

- 01** Press the  button in B/T MODE.
- 02** The user's mobile phone searches for devices and finds the SJ-AVN.  
(Refer to the corresponding manual.)
- 03** The SJ-AVN is registered. (Default password at registration: 0000)
- 04** When PAIRING is successfully completed, the icon turns from  to .

## **BLUETOOTH**

### **BLUETOOTH Detailed Functions**

#### **01**

##### **PHONE**

Use to make calls and enter phone numbers.

- Making Calls
  - Press the <CALL> icon to call the last phone number connected.
  - Enter the phone number directly and press the <CALL> icon.  
(If an incorrect number has been entered, use the <DEL> icon to delete one digit at a time.)
- Receiving Calls
  - Bluetooth mode:  
Press the <CALL> icon to receive an incoming call.  
When the call is complete, press the <END> icon to finish.
  - Other modes:  
Press the <CALL> icon when the Bluetooth screen appears to receive an incoming call.  
When the call is complete, press the <END> icon to finish.  
(The Bluetooth screen disappears, and the previous mode is restored.)



#### **02**

##### **PHONE LIST**

- Use to make a call via the PHONE LIST or to delete a stored phone number.
- Saving to PHONE LIST
  - Save after directly entering a phone number.
  - A total of six phone numbers can be saved.
  - Pressing the <SAVE> icon during a call saves the current phone number.
- Deleting from PHONE LIST
  - After selecting the phone number from the PHONE LIST to be deleted, press the <DEL> icon.  
(The next stored phone number in the sequence fills the space vacated by the deleted phone number.)




## BLUETOOTH


### Mobile Phone MP3 Player Function


The MP3 Player Function is available only when Pairing has been successful.


#### Mobile Phone MP3 Player Function

 : Play/Pause

 : When MP3 files are playing, stops play

 : When MP3 files are playing, plays the previous file

 : When MP3 files are playing, plays the next file

- When an MP3 file is playing, the icon changes to  .



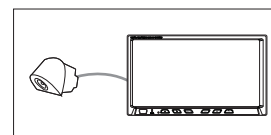
## REAR CAMERA

### REAR CAMERA Main Screen

Operates only when the REARVIEW Cable of the Power & Speaker Cable (16P) is connected to the car.  
Converts to REARVIEW MODE when Backgear is detected.



### REAR CAMERA Simple Operation



**1** Connect the REARVIEW with the reverse gear, and connect REARVIEW IN to the REAR CAMERA.  
(Refer to pages 107~108.)



**2** When the reverse gear signal is detected, the product switches to REAR CAMERA Mode.



**3** Touch the screen to bring up the menu screen.



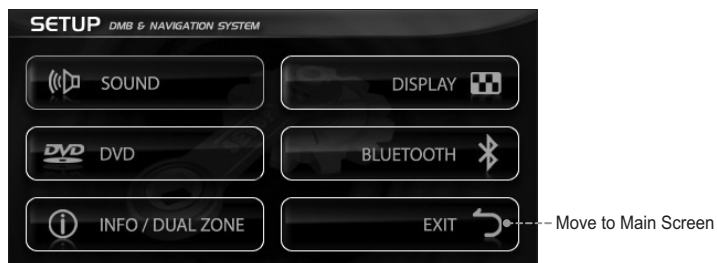
**4** Use the FUNCTION icons as desired.









**5** Press the <MENU> icon to return to the main screen.

## SETUP

### SETUP Main Screen

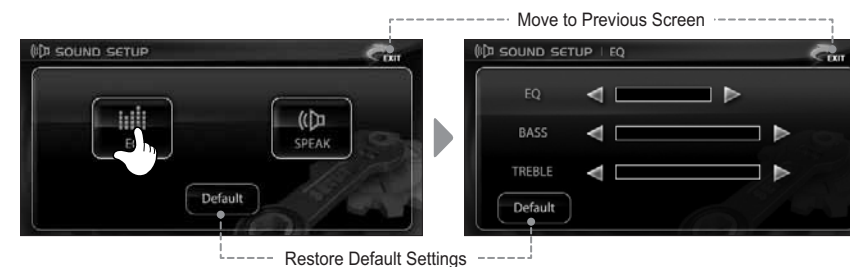


	Adjust equalizer and speaker settings.
	Adjust DVD settings <Language/Video/Video/Viewer Rating>.
	Can set Dual Zone on/off. Can confirm system information.
	Adjust the LCD settings including brightness and color.
	Adjust the Bluetooth ring tone and mode settings.
	Move to the main screen.

## SETUP

### SOUND - EQ

Use the [◀▶] icons to adjust settings in each menu.



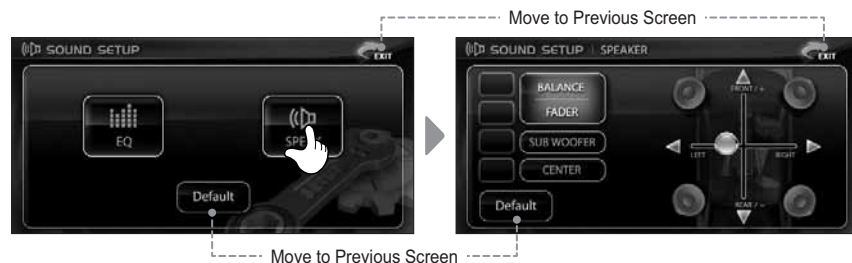
### • EQ (EQUALIZER) – Menu Description

<b>EQ</b>	Can set to [OFF▶CLASSIC▶POP▶ROCK▶JAZZ]. * The <BASS, TREBLE> settings menu is available only when the EQ Mode is set to OFF.
<b>BASS</b>	Adjust the sound bass. Can be set to <-10~0~+10>
<b>TREBLE</b>	Adjust the sound treble. Can be set to <-10~0~+10>

## SETUP

### SOUND - SPEAK

Use the [▲▼◀▶] icons to adjust the <BALANCE, FADER> menu settings.  
Use the [▲▼] icons to adjust the <SUB WOOFER, CENTER> menu settings.



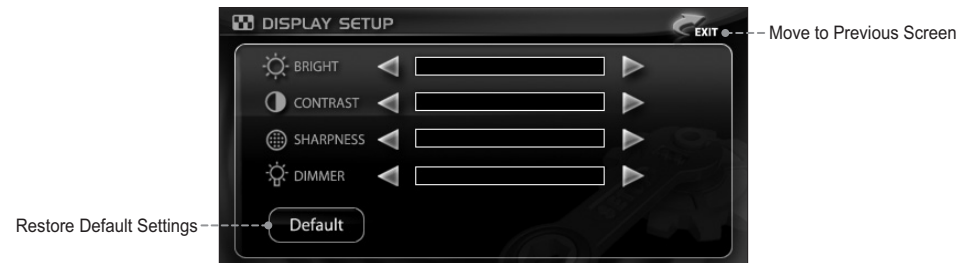
#### • SPEAK – Menu Description

<b>BALANCE/ FADER</b>	BALANCE: Adjust the left/right sound balance. FADER: Adjust the initial/closing sound. Can be set to <-10~0~+10>.
<b>SUB WOOFER</b>	Adjust the sound of the woofer. Can be set to <0~15>.
<b>CENTER</b>	Adjust the Center Speaker volume. Can be set to <0~15>.

## SETUP

### DISPLAY

Use the [◀▶] icons to adjust settings in each menu.



#### • DISPLAY - Menu Description

<b>BRIGHT</b>	Adjusts screen brightness. Can set from <0 ~ 100>.
<b>CONTRAST</b>	Adjusts screen contrast. Can set from <0 ~ 100>.
<b>SHARPNESS</b>	Adjusts screen sharpness. Can set from <0~16>
<b>DIMMER</b>	Sets to Automatic Screen Brightness ON/OFF.



## SETUP

### DVD

◀▶: Move Left/Right, ▲▼: Move Up/Down

Press the [SEL] icon to move to the settings menu and/or move to the previous menu.



#### • DVD - Menu Description

<b>Language Setup</b>	The user can set the desired language. OSD Menu : Set to English/Deutsch/Korean/Español, русский. Subtitle : Set to English/Deutsch/Korean/Español, русский/Auto/Off. Audio : Set to English/Deutsch/Korean/Español/русский. DVD Menu : Set to English/Deutsch/Korean/Español/русский. OSD : Set to On/Off.
<b>Video Setup</b>	Use for video-related setup. TV Shape : Set to 4:3/16:9. TV System : Set to NTSC/PAL/PAL 60/Auto. View Mode : Set to FILL/Original/H FIT/ W FIT/Fit to Screen/Pan Scan. JPG View : Set to Original/Fit to Screen.
<b>Audio Setup</b>	Use for audio-related setup. Digital Output : Set to PCM/Raw/Off. DRC : Set to Off/On. DownSampling : Set to Off/On.
<b>Rating</b>	Use to set the password and rating, as well as reset. Password : Set to ----. Rating : Set to 1.Kid Safe/2.G/3.PG/4.PG-13/5.PG-R/6.R/7.NC-17/8.Adult. Load Factory : Reset.

## SETUP

### BLUETOOTH

Use the [◀▶] icons to adjust settings in each menu.



#### • BLUETOOTH – Menu Description

<b>RING</b>	Set the Bluetooth ring tone. Can be set to <Ring1, Ring2, Ring3>
<b>Receive Autochange</b>	Set Receive Autochange <ON/OFF>. When receiving calls in a mode other than BLUETOOTH ON: Switches automatically to BLUETOOTH Mode. OFF: Current mode is maintained and OSD displayed.



## INFO/DUALZONE

Use the [◀▶] icons to adjust settings in each menu.



### • INFO/DUAL ZONE – Menu Description

<b>Dual Zone</b>	Set Dual Zone <ON/OFF>. ON: DVD plays even if another mode is entered. (Note, valid only if the product has a Disc or SD Card). OFF: When changing to another mode from DVD Mode, the switch occurs after the DVD is closed.
<b>VERSION</b>	Use to confirm the version of various applications and/or firmware.

## Installation Procedure

- 1 To prevent a short circuit, remove the key from the ignition and disconnect the negative post (-) battery.
- 2 Make the proper input and output wire connections for each unit.
- 3 Connect the speaker wires of the wiring harness.
- 4 Connect the wiring harness wires in the following order: ground, battery, ignition.
- 5 Connect the wiring harness connector to the unit.
- 6 Install the unit in your car.
- 7 Reconnect the negative post (-) battery.
- 8 Press the hardware reset button.H

### ⚠ WARNING

- Do not connect the ignition wire and the battery wire to the car chassis(ground) ,you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- Do not cut out the fuse from the ignition wire and the battery wire.  
The power supply must be connected to the wires via the fuse.

### ⚠ CAUTION

- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key.  
If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.
- Insulate unconnected wires with vinyl tape or other similar material. To prevent al short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the "-" wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system. Connect the connectors either to both the front output terminals or to both the rear output terminals (do mot mix front and rear).  
For example, if you connect the "+" connector of the left speaker to a front ouput terminal, do not connect the - connector to a rear ouput terminal.
- After the unit is installed, check wheather the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30' or less.

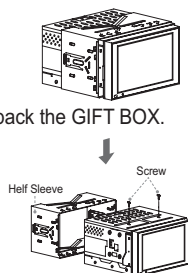


## Installation & Connection

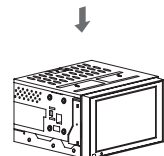
### How to install

01

**01** Unpack the GIFT BOX.

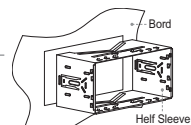


**02** Detach the unit from the Half Sleeve.

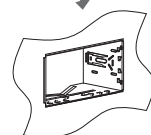


**03** Remove the safety screw for Transporting which is on the top of the unit.

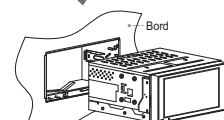
\* Transporting which is on the top of the unit.



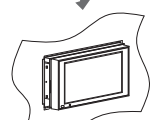
**04** Front dash board



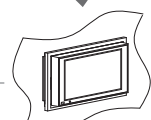
**05** Source the half sleeve by bending the metal Tabs. downward



**06** Insert the into Dash Board.



**07** Set installed



**08** Installation is finished.

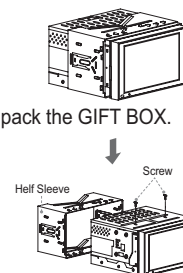


## Installation & Connection

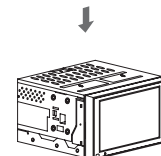
### How to install

02

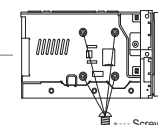
**01** Unpack the GIFT BOX.



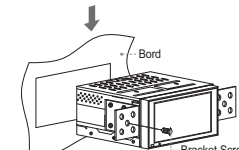
**02** Detach the unit from the Half Sleeve.



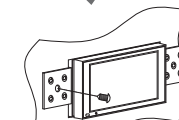
**03** Remove the safety screw for Transporting which is on the top of the unit.



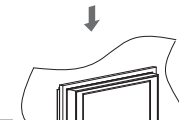
**04** Screw a not provided to the right and left side of the set.



**05** Screw the Dash board.



**06** Set installed



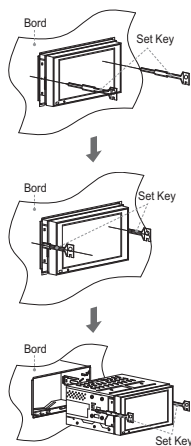
**07** Installation is finished.



## Installation & Connection

### How to disassemble

01

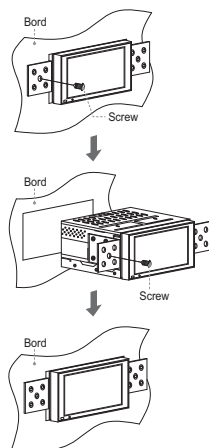


**01** Insert the 'Set Key' into the slot between dash board and of the both side of the unit, left and right.

**02** Insert the 'Set Key' deeply into the centerslot of left and right hand side of the unit.

**03** Insert the 'Set Key' deeply into the centerslot of left and right hand side of the unit.

02



**01** Unscrew the form dash board.

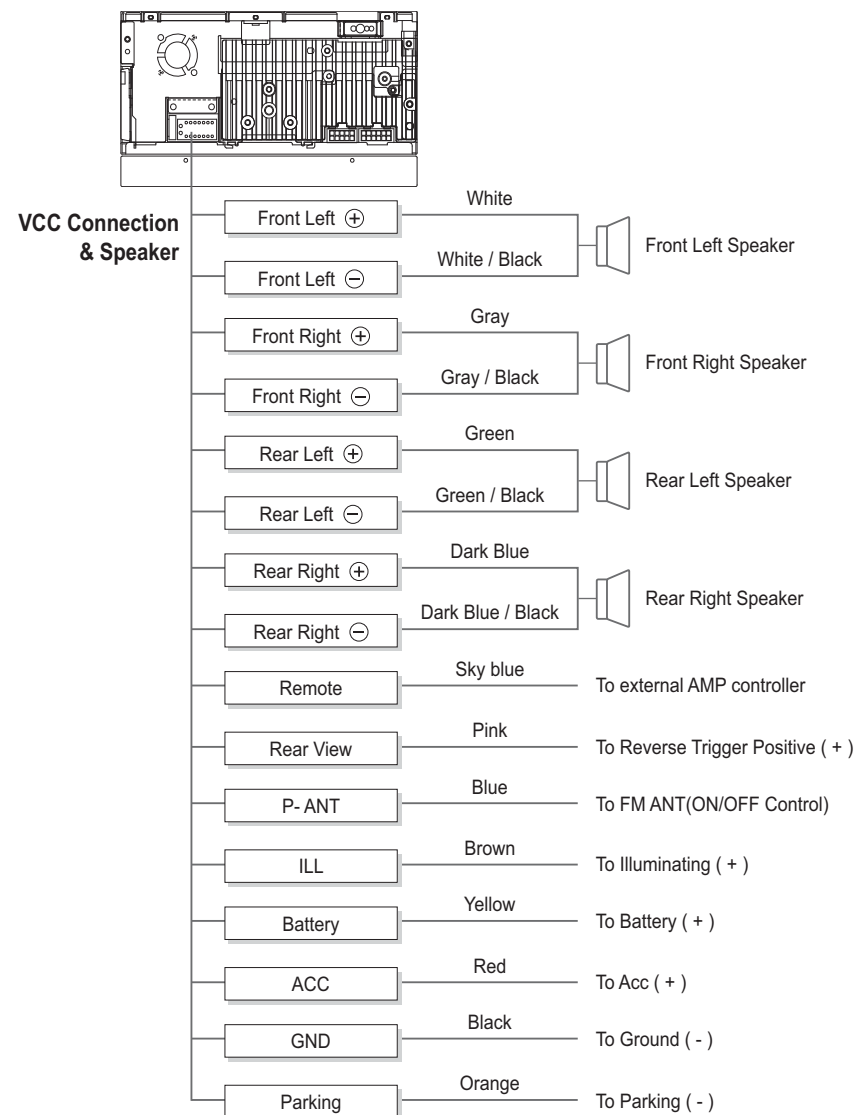
**02** Unscrew the bracket from the left hand side and right hand side of the unit.

**03** Detach the set key from the dash board at the same time



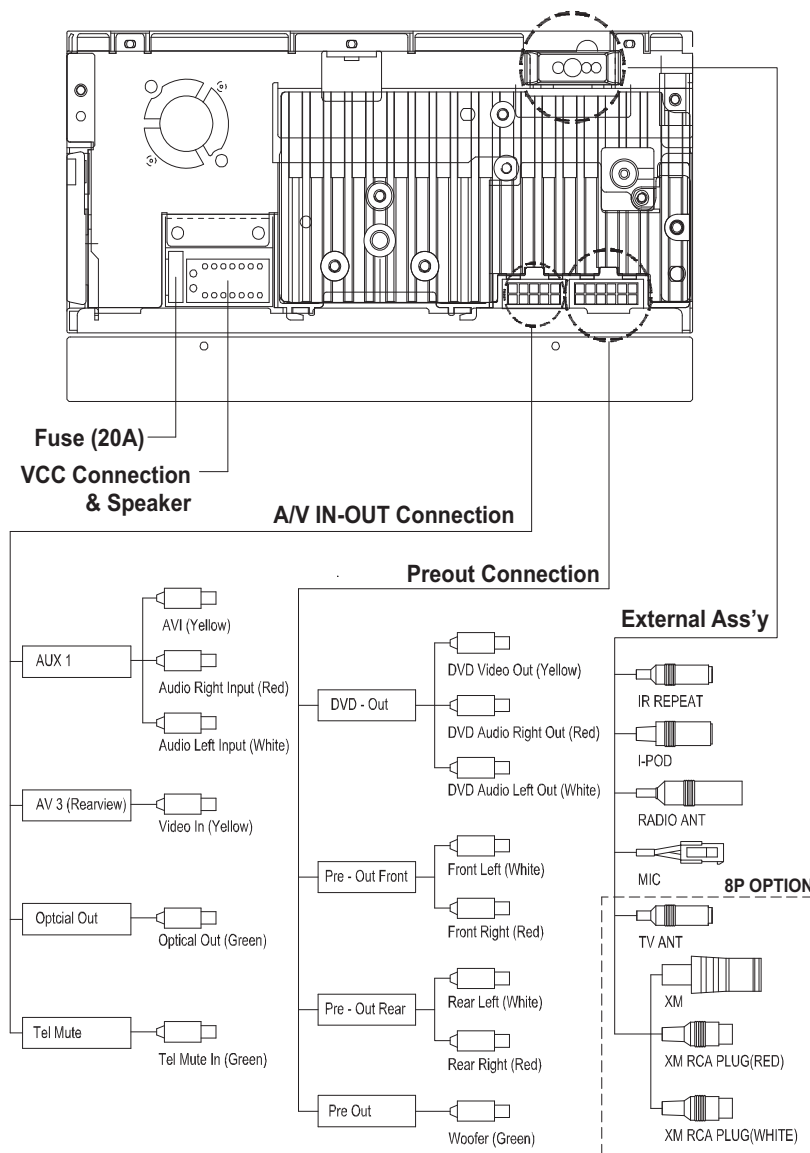
## System Connection

### OUTPUT connection





## System Connection



## Glossary

### Glossary

#### Turning Power ON

A type of disc which contains recording of audio/video packaged media with high video and audio quality, such as a movie, featuring large recording capacity and digital signal processing capability.

#### VCD: VIDEO CD

A type of CD which contains the recording of moving images. It compresses image information by about 1/120 and audio information by about 1/6 and accommodates up to 74 minutes of recording in a disc with the same diameter as ordinary music CD of 12 cm.

Some VCDs do not have the P.B.C. compatibility and are capable of playback only, while some are P.B.C. compatible and are capable of various special play back control operations. This player can play both of these VCDs.

#### MPEG: Moving Picture Experts Group

This is an international standard for digital video and audio compression and decompression in media.

#### Dolby Digital

This is a digital audio compression technology developed by Dolby Laboratories. It is compatible with 5.1-channel surround audio as well as normal stereo (2-channel) audio and can accommodate a large amount of audio data efficiently in a disc.

#### DTS

Name of a digital surround system developed by Digital Theater Systems, Inc.

#### Top menu/menu (DVD)

Some DVDs display more than one title in a screen. This screen is referred to as the top menu. The menu is the item display (menu screen) for use in setting operations. The menu can be recalled and time during play back to perform settings according to the current software, including the audio switching between Dolby Digital and PCM, switching of language used in the subtitles and spoken voice.

#### Title number (DVD)

The title is the largest unit of video and audio recorded in a DVD. It usually corresponds to a single movie of video software or an album (sometimes a piece of music) of music software. The numbers assigned to individual title are referred to as the title numbers.

#### Chapter number (DVD)

The chapter is a section of video and audio recorded in a DVD. A title is composed of several chapters. The numbers assigned to individual chapters are referred to as the chapter numbers.

#### Subtitle (DVD)

Some DVD discs contains the recording of more than one subtitle language. This player allows you to select one of the recorded subtitle languages during playback.

#### Track number (CD, VCD)

A track is also a section of video and audio recorded in a disc. The numbers assigned to individual tracks are referred to as the track numbers. With most of music CDs, a track is assigned to a piece of music. However, with a VCD, the sections of the contents do not always correspond to the assigned tracks. As (special) playback functions such as skipping and programming of ordinary CDs are based on track number data, such playback functions are sometimes impossible with some VCDs.

#### P.B.C.: Play-Back Control (VCD)

When a VIDEO CD carries "Play Back Control capable" or similar message on the disc or jacket, desired scenes and information can be played back in an interactive manner using a hierarchical structure while viewing the menu screens displayed on the TV screen.

#### SRS CS II (Circle Surround II)

Circle Surround II improves on its predecessor Circle Surround (CS5.1) by enabling you to experience powerful multi-channel surround sound playback from mono, stereo or Dolby surround encoded audio and video sources. With SRS CS II you can also listen to audio CDs, television and radio broadcasts in full surround sound. You will discover a new type of sound experience through SRS CS II.



## Troubleshooting Prior to Service Inquiry

What might appear to be a malfunction in your unit may just be the result of slight misoperation or misfiring. Before calling service, first check the following table for possible problems.

### General

Question	Answer
<b>The power does not turn on.</b>	<ul style="list-style-type: none"> <li>The fuse has blown. After checking for short circuits in the wires, replace the fuse with one having the same rating.</li> <li>The speaker wire has a short-circuit or touches the chassis of the vehicle, and then the protection function is activated. Wire or insulate the speaker cable properly and press the reset button.</li> </ul>
<b>Nothing happens when the buttons are pressed.</b>	<ul style="list-style-type: none"> <li>The computer chip in the unit is not functioning normally. Press the reset button on the unit.</li> </ul>
<b>No television/video image appears.</b>	<ul style="list-style-type: none"> <li>The unit is not connected to the parking brake detection switch. Make proper connections according to &lt;INSTALLATION &gt;</li> <li>The unit is not connected to the parking brake detection switch. For safety reasons no television/video images are displayed while the vehicle is moving. Engaging the parking brake will cause images to be displayed.</li> </ul>
<b>The screen is dark.</b>	<ul style="list-style-type: none"> <li>The unit is in a location where temperature is low. If the temperature of the monitor unit drops, the screen may appear darker when power is first turned on due to the characteristic of a liquid crystal panel. Wait a while after turning power on for the temperature to rise. Normal brightness will return.</li> </ul>
<b>The screen does not darken when the vehicle's lights are turned on.</b>	<ul style="list-style-type: none"> <li>The unit is set to auto dimmer. When the unit is set to auto dimmer, it is not linked to the vehicle's light switch.</li> </ul>
<b>AM/FM radio reception is poor and/or there is noise.</b>	<ul style="list-style-type: none"> <li>The TV antenna and vehicle's radio antenna are too close. Separate the two antennas as possible. Turn Off the main unit.</li> </ul>
<b>The remote controller does not operate.</b>	<ul style="list-style-type: none"> <li>The remote control mode selector is not set correctly. Switch the remote control mode selector according to the source you select page 10.</li> </ul>
<b>No sound can be heard, or the volume is low.</b>	<ul style="list-style-type: none"> <li>The fader or balance settings are set all the way to one side. Reset the fader and/or balance settings.</li> <li>The input/output wires or wiring harness are connected incorrectly. Reconnect the input/output wires or the wiring harness correctly. See the section on&lt;INSTALLATION&gt;</li> </ul>
<b>The sound quality is poor or distorted.</b>	<ul style="list-style-type: none"> <li>One of the speaker wires is being pinched by a screw in the car. Check the speaker wiring.</li> <li>The speakers are not wired correctly. Reconnect the speaker wired so that each output terminal is connected to a different speaker.</li> </ul>



## Troubleshooting Prior to Service Inquiry

What might appear to be a malfunction in your unit may just be the result of slight misoperation or misfiring. Before calling service, first check the following table for possible problems.

Question	Answer
<b>Radio reception is poor.</b>	<ul style="list-style-type: none"> <li>The car antenna is not extended. Pull the antenna out all the way.</li> <li>The antenna control wire is not connected. Connect the wire correctly, referring to the section on &lt;INSTALLATION&gt;</li> </ul>
<b>The memory is erased when the ignition is turned off.</b>	<ul style="list-style-type: none"> <li>The battery wire has not been connected to the proper terminal. Connect the wire correctly, referring to the section on &lt;INSTALLATION&gt;.</li> <li>The ignition and battery wire are incorrectly connected. Connect the wire correctly, referring to the section on &lt;INSTALLATION&gt;.</li> </ul>
<b>The sound/picture skips on a DVD/VCD/CD.</b>	<ul style="list-style-type: none"> <li>The disc is scratched or dirty. Clean the disc, referring to the section on disk cleaning.</li> </ul>
<b>A track will not play.</b>	<ul style="list-style-type: none"> <li>Random play has been selected. Turn off random play.</li> </ul>
<b>A VCD cannot be played using menus.</b>	<ul style="list-style-type: none"> <li>The VCD disc being played is not compatible with P.B.C.. Menu playback is available only with VCD discs recorded with P.B.C..</li> </ul>
<b>The subtitle is not displayed.</b>	<ul style="list-style-type: none"> <li>The DVD disc being played does not contain the recording of subtitles.</li> <li>The subtitle cannot be displayed when the DVD disc being played does not contain the recording of subtitles.</li> </ul>
<b>The voice (or subtitle) language cannot be changed.</b>	<ul style="list-style-type: none"> <li>The DVD disc being played does not contain the recording of more than one audio (or subtitle) language.</li> <li>The voices (or subtitle) language cannot be changed when the DVD disc being played does not contain the recording of more than one voice (or subtitle) language.</li> </ul>
<b>The viewing angle cannot be changed.</b>	<ul style="list-style-type: none"> <li>The DVD disc being played does not contain the recording of more than one angle. The viewing angle cannot be changed when the DVD disc being played does not contain the recording of more than one angle.</li> <li>You are attempting to switch the angle in a DVD section where more than one angle is not recorded. More than one viewing angle may be recorded only in limited sections in a disc.</li> </ul>
<b>Playback will not start even after a title is selected.</b>	<ul style="list-style-type: none"> <li>A viewing restriction (RATING) has been set for the disc. Check the viewing restriction level (RATING) setting.</li> </ul>
<b>The voice or subtitle language selected in the initial setting is not played.</b>	<ul style="list-style-type: none"> <li>The DVD disc being played does not contain the recording of the selected voice or subtitle language. Use a DVD disc containing the recording of the selected voice or subtitle language.</li> </ul>