

•
MOBILE VIDEO SYSTEM
•
6.5 INCH WIDE TFT LCD INDASH MONITOR
•
TV TUNER (OPTION)

Take the time to read through this instruction manual.
Familiarity with installation and operation procedures will help you obtain the best performance from the unit.

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Introduction

Thank you for choosing and purchasing this unit.

This instruction manual aims to provide you with installation and operating instructions for the unit.

● Features

"Multi-tasking" refers to the simultaneous use of numerous programs or applications on one system.

- HIGH RESOLUTION & BRIGHT ACTIVE WIDE TFT LCD with Touch Screen
- 5 Step Automatic Motorized Viewing Angle
- Last Angle Memory
- Blue Back Light Control Buttons
- Full-Funtion Infrared Remote Control
- Max Output Power 50W x 4ch
- AV INPUT , REARVIEW INPUT, AV OUPUT

- Auto Dimmer Control
- Multi Screen Aspect (Normal , Full, Wide)
- Picture Adjustable (Brightness, Contrast, Color, Hue, Sharpness)
- NTSC/PAL Auto Selection

- DVD/DVD-RW/DVD-RVCD/CD-R/CD-RW/MP3/JPEG
- DVD Last Position Memory
- Electronic Anti-Shock

- Built-in FM/AM Tuner
- Auto Scan Memory(ASM) Store/Preset Scan
- FM Frequency : 87.5 - 108.0Mhz, 12 Memory Preset(FM1/FM2)
- AM Frequency : 522Khz - 1710Khz , 6 Memory Preset(AM)

- Built-in TV tuner (NTSC)
- IPOD Control
- Tel. Mute Funtion

NOTE

- This instruction manual is only for reference.
- Modifying rights are reserved.
- Modifications are subject to change without notice.

Safety Precautions



○ To prevent injury or fire, take the following precautions:

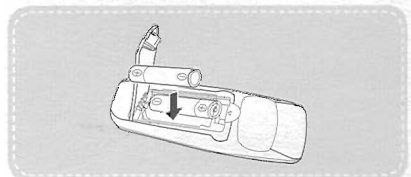
- To prevent a short circuit, never put or Insert any metallic objects (such as coins or metal tools) inside the unit.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal.
- If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.
- Do not watch Video or operate the unit while driving. It may cause a car accident because of the distraction. To enjoy Video Pictures, find a safe place to park, and engage the parking brake.
- This unit is a Class 1 Laser product. To prevent direct exposure to laser system, do not open the unit. The laser beam may hurt your eyes.
- Note that TFT LCD is very fragile and could be easily damaged. Do not press or scratch the surface.
- Do not attempt to service this product by yourself. (Don't repair this unit by yourself to avoid serious damage)
- In case of smoking or malfunction from the monitor, power off this unit immediately and contact dealer for service.
- It is the responsibility of the purchaser and installer to comply with all applicable laws and regulations governing the installation and use of this unit.
- Manufacturer disclaims all liability for any property damage or personal injury that may result from improper or unintended installation or use of this unit.

○ To prevent damage to the unit, take the following precautions.

- Make sure to ground the unit to a negative 12V power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or Moisture.
- To prevent deterioration, do not touch the terminals of the unit or faceplate with your fingers.
- Do not subject the faceplate to excessive shock, as it is a piece of precision Components.
- Don't watch Video pictures while the car's engine is off. (It may drain the battery)
- When replacing a fuse, only use a new fuse with prescribed rating. Using a fuse with the wrong rating may cause your unit to malfunction.
- Use only the screws provided. If you use the wrong screws, you could damage the unit.
- You cannot view video pictures while the vehicle is moving. To enjoy TV/video pictures, find a safe place to park and engage the parking brake.

○ Loading and Replacing the remote battery

- 1 Use two "AAA" size batteries. Slide the cover while pressing downwards to remove it as illustrated.
- 2 Insert the batteries with the + and - poles aligned properly, following the illustration inside the case.



Warning



Do not place the remote control in Direct Sunlight.

⊙ Cleaning the panel and monitor

- ➔ When the control panel and monitor panels are dirty, wipe and clean them using a soft cloth (such as a commercially available silicon coated cloth).
- ➔ When contaminated excessively, clean them using a cloth dipped in a neutral detergent first , then remove the detergent using a dry cloth.
- ➔ Do not use a hard cloth or a volatile chemical (such as an alcohol).
- ➔ Physical or water damage to unit including broken LCD panel will void warranty.

⊙ Cleaning the disc slot

- ➔ As dust can accumulate in the disc slot, clean it occasionally.
Your discs can get scratches if you put them in a dusty disc slot.

⊙ Lens Fogging

- ➔ Right after you turn on the car heater in cold weather, dew or condensation may form on the lens in the disc player of the unit causing lens fogging, discs may be impossible to play. In such a situation, remove the disc and wait for the condensation to evaporate.
- ➔ If the unit still does not operate normally after a while, consult your dealer.

BOX Contents

After purchasing this product, open packaging and see if any of the components listed below are damaged or missing. If there is an abnormality, please inquire to the dealer you purchased from.

As these images are to facilitate the understanding of the consumer, they may differ from the actual conditions.



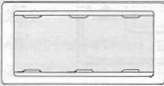
Unit 1 EA



Remote Control (1EA) &
Batteries (2 EA)



Half Sleeve 1 EA
(For Mounting Bracket)



Panel Ring 1 EA (Trim Ring)



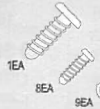
Power & Speaker Cable (16P) 1 EA



AUDIO Cable (8P) 1EA



AV Cable (7P) 1EA



Screw (For Rear Mounting Bracket) /
Center Screw



Key 2 EA (For Removing a unit)



User's Manual 1EA



Warranty Card 1 EA



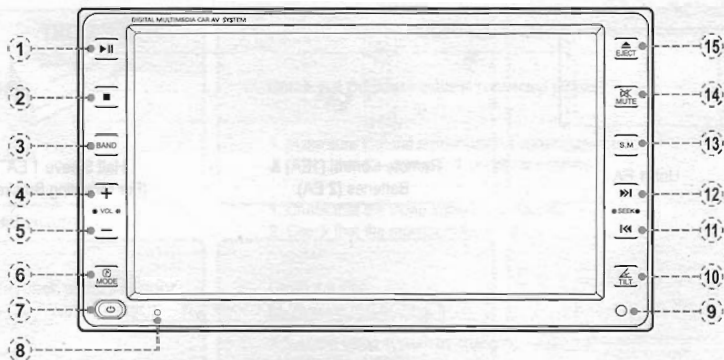
Registration Card



External Ass'y Cable (4P) 1EA

Name and Function of Each Parts

Front Panel Description



1 Play/Pause (▶||) button

Pauses and replays a disc.

2 STOP (■) button

Stops a disc.

3 BAND (BAND) button

Selects AM, FM1 or FM2.

4 Volume (+) button

Adjusts the volume up.

5 Volume (-) button

Adjusts the volume down.

* The max. volume level is 15 when you turn the unit on even if you set more than 15.

6 MODE (MODE) button

Selects one of the following mode.

DVD ▶ SD CARD ▶ iPod ▶ RADIO ▶ AV ▶ TV.

7 Power (⏻) button

Turns on or off the power.

8 Reset Button (⊙)

9 Remote Control Eye

10 TILT (TILT) button

Selects one of the following view angle.

15° ▶ 30° ▶ 45° ▶ 60° ▶ 75° degrees.

11 SEEK PREV (◀◀) button

Reverses Track in DVD mode.
Increases frequency in Radio mode.

12 SEEK NEXT (▶▶) button

Forwards Track in DVD mode.
Decreases frequency in Radio mode.

13 S.M (S.M) button

Turns the SETTING MENU ON/OFF when the S.M. key is pressed in all modes.

Pressing the Long key in DVD mode selects the DVD Setup menu.

14 MUTE (MUTE) button

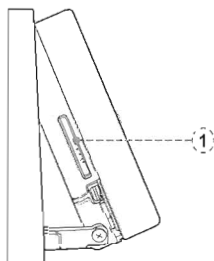
Turns on or off the Sound.

15 EJECT (EJECT) button

To release Disc.

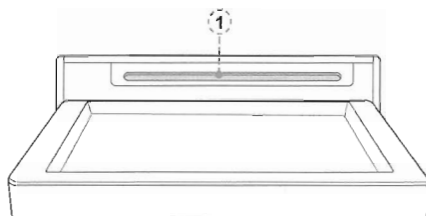
Name and Function of Each Parts

Left Side View



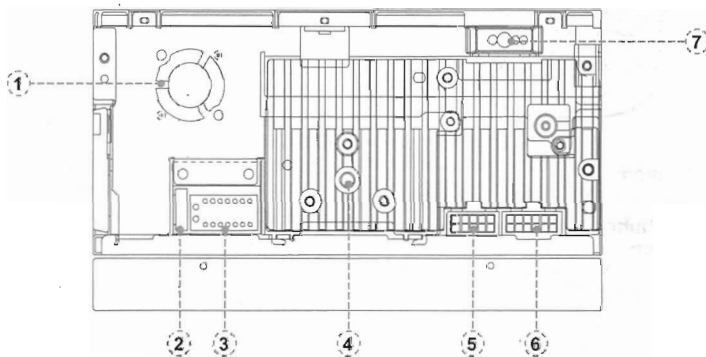
1 SD CARD SLOT

Front Side View



1 Disc insertion slot
A disc is played when you insert it.

Rear Side View

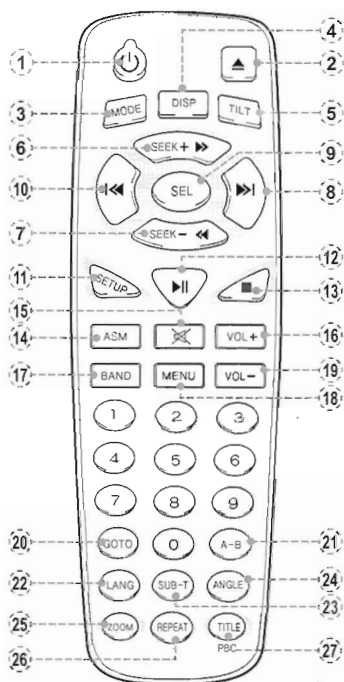


1 Fan
2 Fuse (20A)
3 Main power harness
4 Center Hole

5 A/V IN-OUT Connection
6 Preout Connection
7 External Ass'y

Name and Function of Each Parts

Remote Control Description



1 Power button

You can turn on or off the power by pressing the button.

2 Eject (▲) button To Release Disc.

3 Mode button

Selects one of the following mode by pressing the button
DVD ▶ SD CARD ▶ iPod ▶ RADIO ▶ AV ▶ TV.

4 DISP button

Selects the one of the following time display mode in AUDIO CD. SINGLE ELAPSED, TOTAL ELAPSED, TOTAL REMAIN, OFF

Selects the one of the following time display mode in DVD. TITLE REMAIN, CHAPTER ELAPSED, CHAPTER REMAIN, DISPLAY OFF.

5 TILT button

Selects one of the following view angle by pressing the button.
15° ▶ 30° ▶ 45° ▶ 60° ▶ 75° degrees.

6 SEEK+ (▶▶) button

• Short key: Increases the radio frequency.
• Long key: Doubles the play speed in DVD mode.

7 SEEK- (◀◀) button

• Short key: Lowers the radio frequency.
• Long key: Slows the play speed by two times in DVD mode.

8 NEXT (▶▶) button

The track changes up each time when it is pressed.
Increases radio frequency.
• Long key: Plays the next track in DVD mode.

9 SEL button

Selects the mode that you choose in MODE selection screen.

10 PREV (◀◀) button

The track changes down each time when it is pressed.
Decreases radio frequency.
• Long key: Plays the previous track in DVD mode.

11 SETUP button

Turns the SETTING MENU ON/OFF in all modes.
Pressing the Long key in DVD mode selects the DVD Setup menu.

12 Play/Pause (▶||) button

Pauses and replays a disc.

13 Stop (■) button Stops a disc.

14 ASM button

Auto frequency scan in radio mode.

15 MUTE button

You can turn on or off the sound by pressing the button, except Auto Search Frequency, Seek + button or Seek - button.

16 Volume +

Adjust the volume up.

17 BAND button

Selects radio mode each time press the button.
Mode will change as follows : FM1 ▶ FM2 ▶ AM

18 MENU button

Returns to the root menu.

19 Volume -

Adjust the volume down.

20 GOTO button

Selects a chapter that you want to go. Press the "SEL" button after you input a chapter number.

21 A-B button

Selects a repeat interval or OFF.

22 LANG button

Selects a LANGUAGE.

23 SUB-T button

Selects a SUB-TITLE or OFF.

24 ANGLE button

Selects a view angle in DVD mode.

25 ZOOM button

Enlarges a screen each time you press it in DVD mode as follows : X1.5 ▶ X2 ▶ X3 ▶ X4 ▶ ZOOM OFF


26 REPEAT button

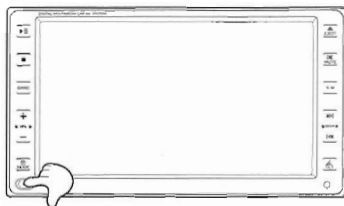
Repeats a TITLE or CHAPTER.
Menu will changes as follows: REPEAT CHAPTER ON ▶ REPEAT TITLE ON ▶ REPEAT OFF.

27 TITLE button

Returns to the DVD root menu.


Mode Selection

- 01 Press the <  > Power button and the recently selected mode is set automatically.

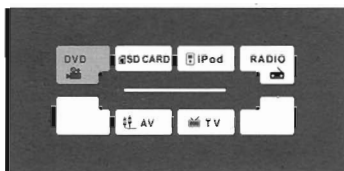


- 02 Press the <  > button to change the mode.



- 03 The mode changes each time when the <  > button is pressed.

As the mode cycles through a sequence of [DVD ▸ SD CARD ▸ iPod ▸ RADIO ▸ AV ▸ TV], touch the desired mode to select.



NOTE

- If left on the recently selected mode for five seconds, that mode is automatically selected and the screen changes accordingly.

DVD

For DVD, VCD, AUDIO CD, MP3 CD, PHOTO CD, and DIVX CD (all operations in DVD)

⊙ DVD Main Screen

Touch the playback screen in DVD mode to bring up the DVD function icons.
The DVD function icons disappear after three seconds if no input is made.



• DVD Function Icons

Rewind / Fast Forward Playback

Press during playback to play backward or forward.
Each press of the button cycles through speeds of 2x, 4x, 8x, and 20x.
(Note: Function buttons only work during playback.)



Speed Specs.

- DVD : 2x, 4x, 8x, 20x - VCD : 2x, 4x, 8x, 20x - MP3, MPEG : 2x, 4x, 8x, 20x
- CDDA : 2x, 4x, 8x, 20x - DIVX : 2x, 4x, 8x, 20x

Play / Pause

Press to play a DVD or pause during playback.



Stop

Press to stop DVD playback.
(Note: Function buttons only work during playback.)



Previous / Next Track

Press to move to the previous or next track during playback.
(Note: Function buttons only work during playback.)

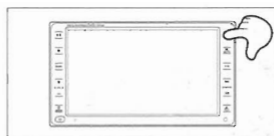


• Move Function Icons

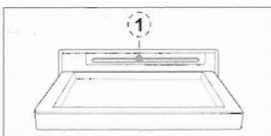
	Move Left
	Move Right
	Move Up
	Move Down
	Enter (Set)

DVD

◎ DVD Simple Operation



1 Select the < EJECT > button.



2 Insert the DVD DISC in ①.



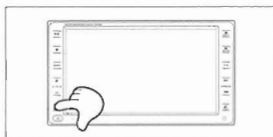
3 Run the DVD.



4 Touch the screen to bring up the DVD function buttons.



5 Use the function buttons to operate.



6 To move to another mode, press the < MODE > button.

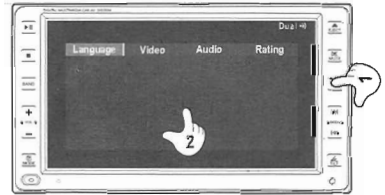
DVD

Move to DVD Setup

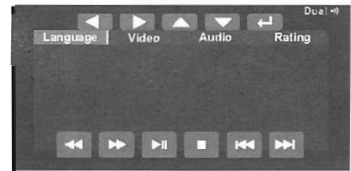
◀▶ : Move Left / Right, ▲▼ : Move Up / Down, ↵ : Enter (Set)

01 Viewing the DVD Setup Menu

- 1 Press the <S.M.> button for at least five seconds to bring up the DVD Setup screen.



- 2 Touch the screen to bring up the Move function icons.



02 Setting the DVD Setup Menu

- 1 Use the ◀▶ Left / Right icons to select the DVD Setup menu.



- 2 Press the ↵ Enter (Set) icon to select the Language.

- 3 Use the ▲▼ Up / Down icons to select the Language sub menu.



- 4 Press the ↵ Enter (Set) icon to select the <OSD Menu>.


- 5 Use the ▲▼ Up / Down icons to set the Language.



- 6 Press the ↵ Enter (Set) icon to move.

03

Moving to the DVD Setup Menu

① Press the  icon to move to the previous menu.



② Use the  /  Left / Right icons to select the DVD Setup menu.



◉ DVD Setup

◀▶ : Move Left / Right, ▲▼ : Move Up / Down, ↵ : Enter (Set)

Refer to page 12~13 for instructions on moving to each menu.

01 Language Setup

The user can set the desired language.

OSD Menu : Set to English/Deutsch/Korean/Español,

русский

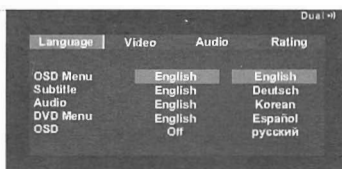
Subtitle : Set to English/Deutsch/Korean/Español,

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



02 Video Setup

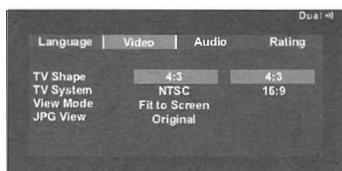
Use for video-related setup.

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



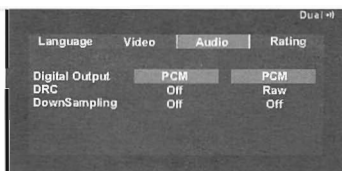
03 Audio Setup

Use for audio-related setup.

Digital Output : Set to PCM/Raw/Off

DRC : Set to Off/On

DownSampling : Set to Off/On



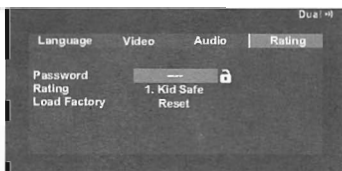
04 Rating

Use to set the password and rating, as well as reset.

Password : Set to ----

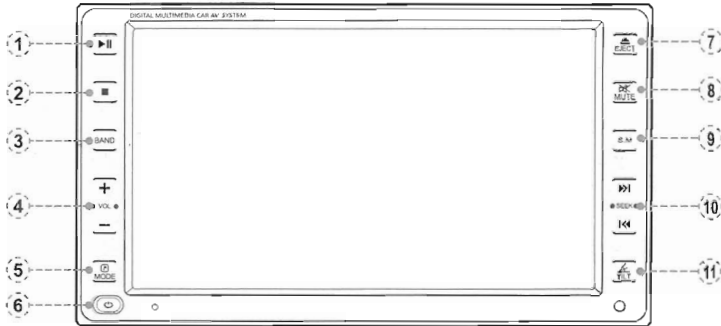
Rating : Set to 1.Kid Safe/2.G/3.PG/4.PG-13/
5.PG-R/6.R/7.NC-17/8.Adult

Load Factory : Reset



DVD

⊙ DVD Front Side Menu



1	PLAY / PAUSE	PAUSE during PLAY PLAY following PRESTOP, STOP
2	STOP	PRESTOP during playback, STOP during PRESTOP, not permitted during STOP
3	BAND	Enters TUNER MODE
4	VOL + / -	Automatic disabling of MUTE when MUTE is on, Deletes MUTE icon Deletes DVD OSD in Volume OSD Display When Volume OSD is shown, deletes Volume OSD if the Volume key is not pressed after three seconds
5	MODE	Reverts to MAIN MENU * Refer to FRONT – Remote Control Key specification
6	POWER	POWER ON / OFF * Refer to FRONT – Remote Control Key specification
7	EJECT	EJECT Function * Refer to FRONT – Remote Control Key specification
8	MUTE	Master Volume Mute ON/OFF (icon changes between on/off) * Refer to FRONT – Remote Control Key specification
9	S M	Turns SETTING MENU ON/OFF in all modes when S.M. Key is entered
10	SEEK	⏮ Moves to previous Chapter during PLAY/PAUSE Not permitted during PRESTOP, STOP
		⏭ Moves to next Chapter during PLAY/PAUSE Not permitted during PRESTOP, STOP
11	TILT	FRONT ANGLE up/down * Refer to FRONT – Remote Control Key specification

SD CARD

Converts to SD CARD mode when an SD CARD is inserted in the SET.
Reverts to previous mode when the SD CARD is removed.

SD CARD Main Screen



SD CARD Function Icons

	<p>Rewind / Fast Forward Playback Press during playback to play backward or forward. Each press of the button cycles through speeds of 2x, 4x, 8x, and 20x. (Note: Function buttons only work during playback.)</p>
	<p>Play / Pause Press to play a DVD file or pause during playback.</p>
	<p>Stop Press to stop DVD playback. (Note: Function buttons only work during playback.)</p>
	<p>Previous / Next Track Press to move to the previous or next track during playback. (Note: Function buttons only work during playback.)</p>

• Move Function Icons

	Move Left
	Move Right
	Move Up
	Move Down
	Enter (Set)

SD CARD

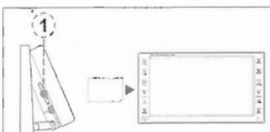
SD CARD Simple Operation

◀ ▶ : Move Left / Right, ▲ ▼ : Move Up / Down, ⏻ : Enter (Set)

Refer to page 12~13 for instructions on moving to each menu.



1 Select the <◀> button.



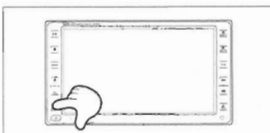
2 Insert the SD CARD front first in ①.



3 The SD CARD runs after loading.



4 Use the function buttons to operate.



5 To move to another mode, press the <MODE> button.

NOTE

- Inserting the SD CARD the wrong way can result in SD CARD damage, for which all liability rests with the user.
- Loading times may vary according to file type and file size.



Front



Back

SD CARD

SD CARD Side Menu

PLAY / PAUSE	Explore Files : No Action PAUSE during PLAY PLAY following PRESTOP, STOP
STOP	Explore Files : No Action PRESTOP during playback, STOP during PRESTOP, not permitted during STOP
BAND	Enters TUNER MODE
VOL + / -	Automatic disabling of MUTE when MUTE is on, Deletes MUTE icon When Volume OSD is shown, deletes Volume OSD if the Volume key is not pressed after three seconds
MODE	Reverts to MAIN MENU * Refer to FRONT – Remote Control Key specification
POWER	POWER ON / OFF * Refer to FRONT – Remote Control Key specification
EJECT	EJECT Function * Refer to FRONT – Remote Control Key specification
MUTE	Master Volume Mute ON/OFF (icon changes between on/off) * Refer to FRONT – Remote Control Key specification
S M	Turns SETTING MENU ON/OFF in all modes when S.M. Key is entered
SEEK	Explore Files: STOP: Moves to upper list in the File Explorer window PLAY/PAUSE: Moves to previous chapter PRESTOP: Not permitted
	Explore Files: Moves to lower list in the File Explorer window PLAY/PAUSE: Moves to next chapter PRESTOP: Not permitted
TILT	FRONT ANGLE Up/Down * Refer to FRONT – Remote Control Key specification

● iPod Main Screen



• iPod Function Icons

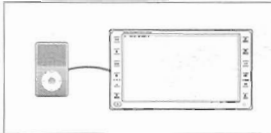
	Play/Pause
	Moves to next highest menu
	Up
	Down
	Select

NOTE

- When adjusting volume, the volume icon display replaces the display of total number of files and music file play time, as shown.



⊙ iPod Simple Operation



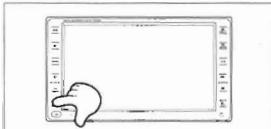
1 Connect the iPod to the product.



2 The iPod runs after loading.



3 Use the function buttons to operate.



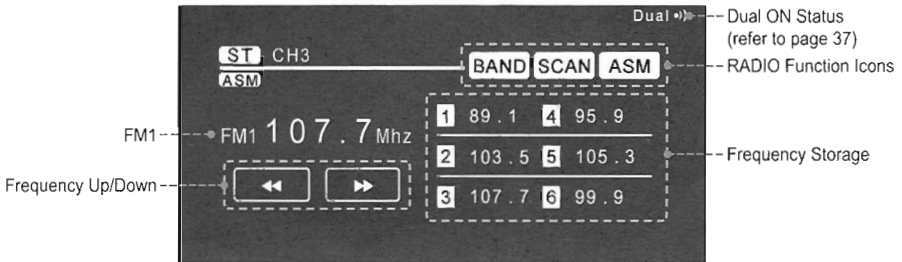
4 To move to another mode, press the < MODE > button.

⦿ iPod Side Menu

PLAY / PAUSE	Use for iPod MP3 control
STOP	Use for iPod MP3 control
BAND	Enters TUNER MODE
VOL + / -	Automatic disabling of MUTE when MUTE is on When adjusting volume, the volume icon display replaces the display of total number of files and music file play time, as shown. When Volume OSD is shown, deletes Volume OSD if the Volume key is not pressed after three seconds
MODE	Reverts to MAIN MENU * Refer to FRONT – Remote Control Key specification
POWER	POWER ON / OFF * Refer to FRONT – Remote Control Key specification
EJECT	EJECT Function * Refer to FRONT – Remote Control Key specification
MUTE	Master Volume Mute ON/OFF (icon changes between on/off) * Refer to FRONT – Remote Control Key specification
S M	Turns SETTING MENU ON/OFF in all modes when S.M. Key is entered
SEEK	Use for iPod MP3 control
TILT	FRONT ANGLE up/down * Refer to FRONT – Remote Control Key specification

RADIO

◉ RADIO Main Screen

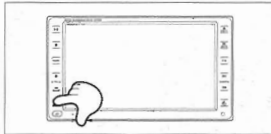


• RADIO Function Icons

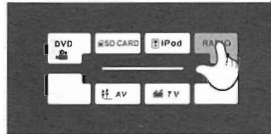
BAND	<p>BAND</p> <ul style="list-style-type: none"> - Cycles through sequence of [FM1 ▶ FM2 ▶ AM] - Displays most recent frequency for each band - If in ASM MODE, disables ASM MODE and returns to USER MODE
SCAN	<p>SCAN</p> <ul style="list-style-type: none"> - Begins scan from the first frequency - When an active frequency is found during scan, plays the frequency for five seconds before resuming scan - When scan is fully complete, resumes play of the frequency played in the previous mode. - If SCAN stops while in progress: Select ASM, SEEK, BAND, or SCAN, SCAN stops when power is turned off - When SCAN stops while in progress, the current frequency is played.
ASM	<p>ASM</p> <p>Auto Search Memory</p>
	<p>SEEK (Short Key)</p> <ul style="list-style-type: none"> - Manual Tuning up/down - North America FM : 200Khz, 87.5 ~ 107.9Mhz AM : 10Khz, 530 ~ 1710Khz - Europe FM : 50Khz, 87.5 ~ 108.0Mhz AM : 9Khz, 522 ~ 1620Khz - SEEK stops during ASM, AUTO SEEK if Manual SEEK is selected. <p>SEEK (Long Key)</p> <ul style="list-style-type: none"> - Auto Tuning up/down - If SEEK stops while in progress: Select ASM, SEEK, or BAND, SEEK stops when power is turned off - Searches from the currently displayed frequency - SEEK stops during ASM, AUTO SEEK if Manual SEEK is selected.

RADIO

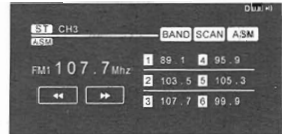
◎ RADIO Simple Operation



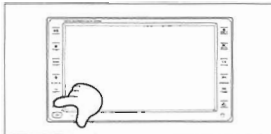
1 Select the <MODE> button.



2 Select the <RADIO> icon.



3 Use the function buttons to operate.



4 To move to another mode, press the <MODE> button.

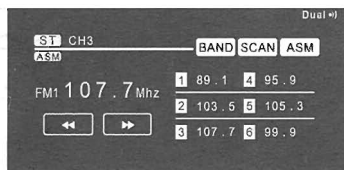
RADIO

◉ RADIO Detailed Functions

01 ASM [ASM]

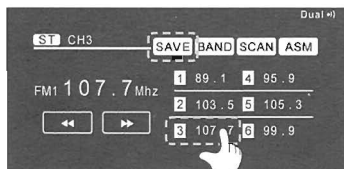
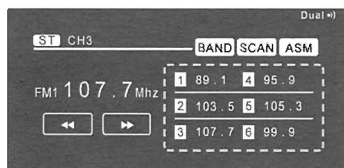
Auto Search Memory

- Displays "ASM" as ASM begins, maintains OSD until "ASM mode" is disabled
 - Searches from the first frequency: FM (87.5Mhz), AM (530Khz)
 - ASM conducted only for frequencies matching the current BAND. (AM, FM1, FM2)
- ASM PRESET MODE
 - 1) Follow ASM completion, six frequencies each, from low to high, in FM1 and FM2 are saved.
 - 2) If the total frequencies total more than 12, the 12 frequencies with the best reception are saved.
 - 3) If the total frequencies total six or less, they are saved only to FM1.
- To stop during ASM: Press SEEK, ASM, or BAND. (Skip remaining keys)
 - Maintains frequencies in memory before stopping in progress, erases ASM OSD
- If ASM frequencies are less than six, previous frequencies in memory are maintained



02 PRESET 1~6

- PRESET LOAD :
 - Select the corresponding PRESET ICON to play the corresponding frequency after it is displayed.
- PRESET SAVE :
 - Press the Long Key for more than one second to save the current frequency.
 - Displays the "SAVE" OSD for one second
- Initial PRESET frequency of initial FM1, FM2, AM
- PRESET Default Frequencies
 - FM1 : 8770, 9010, 9810, 10610, 10790, 8770
 - FM2 : 8770, 9670, 10490, 10690, 10790, 8770
 - AM : 530, 600, 1000, 1600, 1720, 530



RADIO

◉ RADIO Side Menu

PLAY / PAUSE	No ACTION
STOP	No ACTION
BAND	Cycles through sequence of FM1 ▶ FM2 ▶ AM Displays most recent frequency for each band
VOL + / -	Automatic disabling of MUTE when MUTE is on, Deletes MUTE icon When Volume OSD is shown, deletes Volume OSD if the Volume key is not pressed after three seconds
MODE	Reverts to MAIN MENU * Refer to FRONT – Remote Control Key specification
POWER	POWER ON / OFF * Refer to FRONT – Remote Control Key specification
EJECT	EJECT Function * Refer to FRONT – Remote Control Key specification
MUTE	Master Volume Mute ON/OFF (icon changes between on/off) * Refer to FRONT – Remote Control Key specification
S M	Turns SETTING MENU ON/OFF in all modes when S.M. Key is entered
SEEK	Tuning up/down
TILT	FRONT ANGLE up/down * Refer to FRONT – Remote Control Key specification

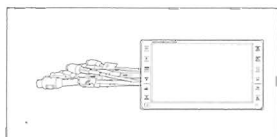
AV Main Screen

AV Playback Screen

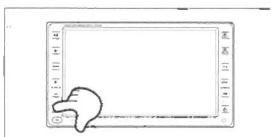


Dual ON Status
(refer to page 37)

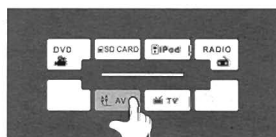
AV Simple Operation



1 Connect the AV device to the AUX VIDEO IN jack at the rear of the product via the A/V Cable (6P).



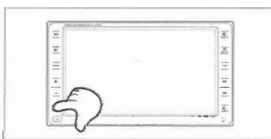
2 Select the **<MODE>** button.



3 Select the **<AV>** icon.



4 The connected video screen appears.



5 To move to another mode, press the **<MODE>** button.

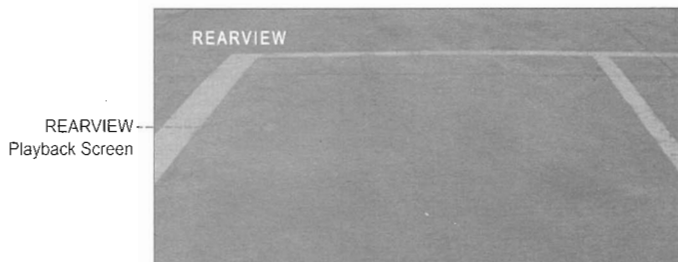
⊙ AV Side Menu

PLAY / PAUSE	No Action
STOP	No Action
BAND	Enters TUNER MODE
VOL + / -	Automatic disabling of MUTE when MUTE is on When Volume OSD is shown, deletes Volume OSD if the Volume key is not pressed after three seconds.
MODE	Reverts to MAIN MENU * Refer to FRONT – Remote Control Key specification
POWER	POWER ON / OFF * Refer to FRONT – Remote Control Key specification
EJECT	EJECT Function * Refer to FRONT – Remote Control Key specification
MUTE	Master Volume Mute ON/OFF (icon changes between on/off) * Refer to FRONT – Remote Control Key specification
S M	Turns SETTING MENU ON/OFF in all modes when S.M. Key is entered
SEEK	No Action
TILT	FRONT ANGLE up/down * Refer to FRONT – Remote Control Key specification

REARVIEW

REARVIEW Main Screen

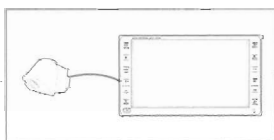
Operates only when the REARVIEW Cable of the Power & Speaker Cable (16P) is connected to the car.
Converts to REARVIEW MODE when Backgear is detected.



NOTE

- REARVIEW does not operate when ACC is off.
- Setting the Camera menu to Mirror switches the screen left/right. (refer to page 38)

REARVIEW Simple Operation



1 Connect to the backgear in REARVIEW, and connect the rear camera to REARVIEW IN. (refer to pages 43~44)








2 REARVIEW MODE is selected when backgear is detected.

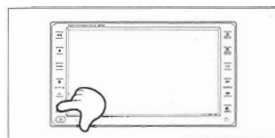
TV Main Screen



TV Function Icons

	Scans CH from the beginning and saves the list of received channels when the screen appears. (scans CH 2-69)
	Saves the current channel to the received channel list.
	Deletes the current channel from the received channel list.
	Short key : Manual CH down Long key : Auto CH down
	Short key : Manual CH up Long key : Auto CH up

TV Simple Operation



1 Select the <MODE> button.



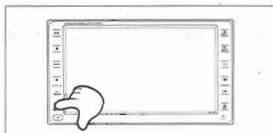
2 Select the <TV> icon.



3 Touch the screen to bring up the function icons.



4 Use the function buttons to operate.



5 To move to another mode, press the <MODE> button.

⊙ TV Side Menu

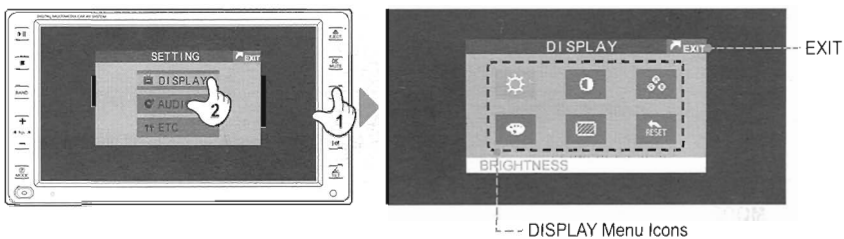
PLAY / PAUSE	No Action
STOP	No Action
BAND	TUNER MODE
VOL + / -	Automatic disabling of MUTE when MUTE is on When Volume OSD is shown, deletes Volume OSD if the Volume key is not pressed after three seconds.
MODE	Reverts to MAIN MENU * Refer to FRONT – Remote Control Key specification
POWER	POWER ON / OFF * Refer to FRONT – Remote Control Key specification
EJECT	EJECT Function * Refer to FRONT – Remote Control Key specification
MUTE	Master Volume Mute ON/OFF (icon changes between on/off) * Refer to FRONT – Remote Control Key specification
S M	Turns SETTING MENU ON/OFF in all modes when S.M. Key is entered
SEEK	Short key : Manual CH up/down. (CH 2~69) Moves up/down the channel list on screen after it has been generated. Long key : Auto CH up/down.
TILT	FRONT ANGLE up/down * Refer to FRONT – Remote Control Key specification

Setting

◎ DISPLAY Setting Procedure

Setting: Can run the DISPLAY, AUDIO, ETC. menus.

Press [①: Product's <S.M.>] [②: LCD Screen's <DISPLAY>] to run the DISPLAY Setting menu.







• DISPLAY Menu Icons





	Contrast Adjusts screen contrast
	Brightness Adjusts screen brightness
	Color Adjusts screen color
	Hue Adjusts screen hue
	Sharpness Adjusts screen sharpness
	Reset Resets DISPLAY menu settings (DEFAULT SETTING)

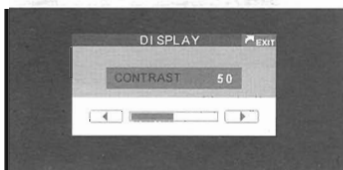
Setting





DISPLAY Settings

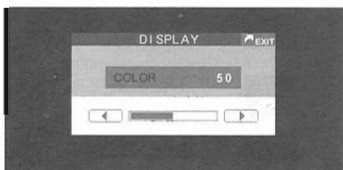
- 01 Contrast** [] DEFAULT : 50
Adjusts screen contrast.
Can set from <0 ~ 100>.
 : Reduce Setting  : Increase Setting
 : EXIT







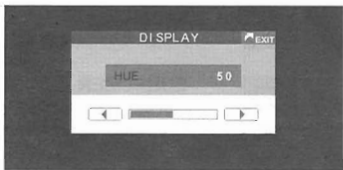
- 02 Brightness** [] DEFAULT : 50
Adjusts screen brightness.
Can set from <0 ~ 100>.
 : Reduce Setting  : Increase Setting
 : EXIT







- 03 Color** [] DEFAULT : 50
Adjusts screen color.
Can set from <0 ~ 100>.
 : Reduce Setting  : Increase Setting
 : EXIT




- 04 Hue** [] DEFAULT : 50
Adjusts screen hue.
Can set from <0 ~ 100>.
 : Reduce Setting  : Increase Setting
 : EXIT



- 05 Sharpness** [] DEFAULT : 0
Adjusts screen sharpness.
Can set from <0 ~ 100>.
 : Reduce Setting  : Increase Setting
 : EXIT



- 06 Reset** []
Resets DISPLAY menu settings to default.
Closes Setting menu after setting.

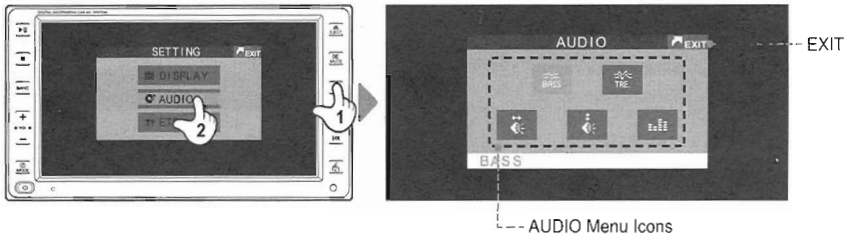


Setting






⦿ AUDIO Setting Procedure

Setting: Can run the DISPLAY, AUDIO, ETC. menus.

Press [①: Product's <S.M.>]▶ [②: LCD Screen's <AUDIO>] to run the DISPLAY Setting menu.



• AUDIO Menu Icons

	BASS Adjusts bass
	TREBLE Adjusts treble
	BALANCE Adjusts left and right volume
	FADER Adjusts start and end volume
	EQUALIZER Can set the EQUALIZER to STANDARD, ROCK, JAZZ, POP, or CLASSIC.

Setting

AUDIO Settings

AUDIO SETTING is applied in real time.

01


BASS []

DEFAULT : 0

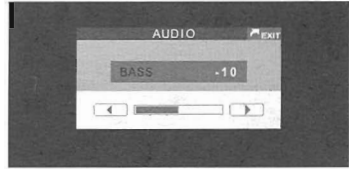
Adjusts bass.

Can set from <-10 ~ 0 ~ +10>.

 : Reduce Setting

 : Increase Setting

 : EXIT



02

TREBLE []

DEFAULT : 0

Adjusts treble.

Can set from <-10 ~ 0 ~ +10>.

 : Reduce Setting

 : Increase Setting

 : EXIT



03

BALANCE []

DEFAULT : L=R

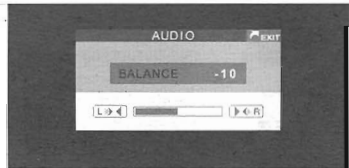
Adjusts left and right volume.

Can set from <-10 ~ 0 ~ +10>.

 : Reduce Setting

 : Increase Setting

 : EXIT



04


FADER []

DEFAULT : F=R

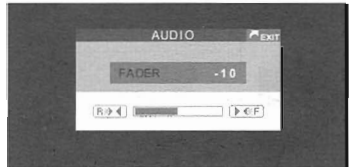
Adjusts start and end volume.

Can set from <-10 ~ 0 ~ +10>.

 : Reduce Setting

 : Increase Setting

 : EXIT



05

EQ (EQUALIZER) []

DEFAULT : STANDARD

Can set to the desired sound EQUALIZER.

Cycles through sequence of STANDARD, ROCK, JAZZ, POP, and CLASSIC.

* No matter the EQ MODE, if BASS, MIDDLE, and/or TREBLE are changed, the EQ is set to STANDARD MODE, and the USER-defined settings are applied.

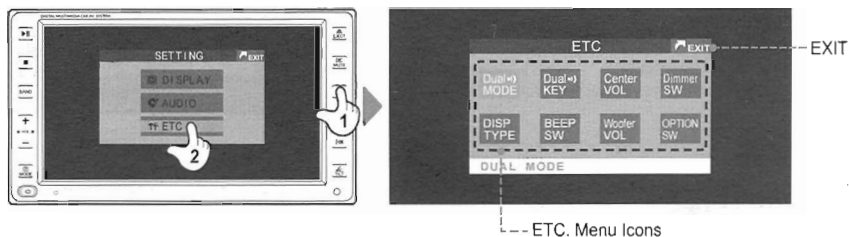


Setting

⦿ ETC. Setting Procedure

Setting: Can run the DISPLAY, AUDIO, ETC. menus.

Press [①: Product's <S.M.> ▶ ②: LCD Screen's <ETC>] to run the DISPLAY Setting menu.



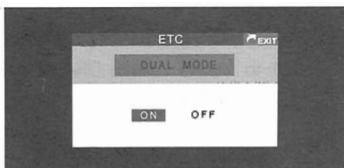
• ETC. Menu Icons

Dual MODE	DUAL ZONE Sets to DUAL ZONE ON/OFF
Dual KEY	DUAL KEY Sets IR REPEAT for DUAL ZONE use or non-use
Center VOL	Center VOL Adjusts center speaker volume
Dimmer SW	Dimmer SW Sets to Automatic Screen Brightness ON/OFF
DISP TYPE	DISP TYPE Sets the screen size mode
BEEP SW	BEEP Sets to BEEP ON/OFF
Woofer VOL	Woofer Vol Sets to Woofer Volume ON/OFF and adjusts volume
OPTION SW	OPTION SW Enables setting of the radio area and camera direction and displays Firmware version information.

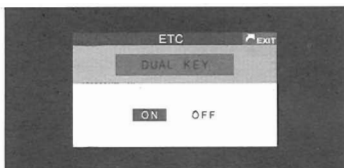
Setting

⊙ ETC Settings

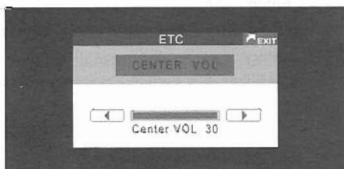
- 01 DUAL ZONE** [DUAL MODE] DEFAULT : OFF
Sets to DUAL ZONE ON/OFF.
ON : The DVD runs even when switched to another mode.
(Note, this is only when the product Disc or SD Card is present.)
OFF : When switching to another mode from DVD MODE,
conversion is done after the DVD is closed.
EXIT : EXIT



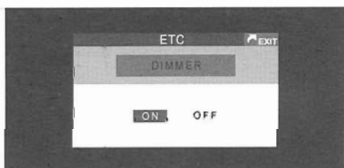
- 02 DUAL KEY** [DUAL KEY] DEFAULT : OFF
Sets Function icons to DUAL KEY ON/OFF.
ON: Regardless of the current mode, applied to DVD-related key.
OFF: Applied as a key to the current mode.
EXIT : EXIT



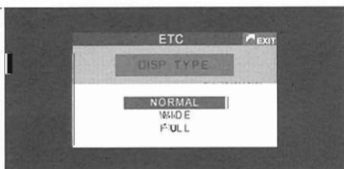
- 03 Center VOL** [Center VOL] DEFAULT : 10
Adjusts center speaker volume.
Can set from <0 ~ 15>.
◀ : Reduce Setting ▶ : Increase Setting
EXIT : EXIT



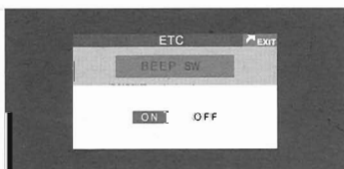
- 04 Dimmer SW** [Dimmer SW] DEFAULT : OFF
Sets to Automatic Screen Brightness ON/OFF.
EXIT : EXIT



- 05 DISP TYPE** [DISP TYPE] DEFAULT : WIDE
Adjusts video resolution displayed on the monitor.
Can set to <NORMAL, WIDE, or FULL>.
EXIT : EXIT



- 06 BEEP** [BEEP SW] DEFAULT : OFF
Sets button sound to ON/OFF
EXIT : EXIT



Setting

07

Woofers Vol [Woofers Vol]

DEFAULT : OFF

Sets to Woofers Volume ON/OFF (OFF shown).

 EXIT : EXIT

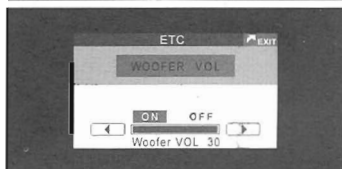
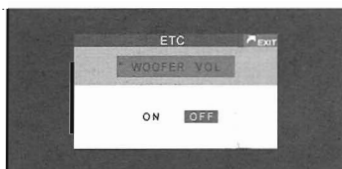
DEFAULT : 10

If Woofers Volume is on: Adjusts volume

 : Reduce Setting

 : Increase Setting

 EXIT : EXIT



08

OPTION SW [OPTION SW]

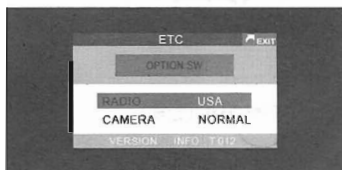
Enables setting of the radio area and camera direction and displays Firmware version information.

RADIO : Sets the area. (USA/EUROPE)

CAMERA : Sets the left/right screen in Rearview Mode. (NORMAL/MIRROR)

VERSION INFO : Displays Firmware version information.

 EXIT : EXIT



Installation & Connection

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.

⚠ 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.

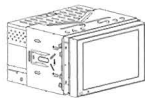
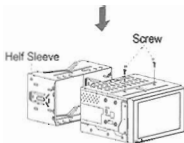

⚠ CAUTION

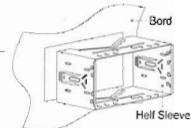
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, as with battery wires, the battery may die.
- If the console has 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 a 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 not mix front and rear). For example, if you connect the "+" connector of the left speaker to a front output terminal, do not connect the - connector to a rear output terminal.
- After the unit is installed, check whether 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

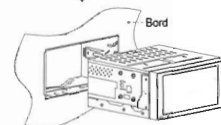
- 01** Unpack the GIFT BOX.
- 
- 02** Detach the unit from the Half Sleeve.
- 
- 03** Remove the safety screw for Transporting which is on the top of the unit.
* Transporting which is on the top of the unit.
- 



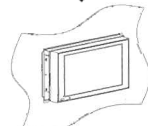
04 Front dash board



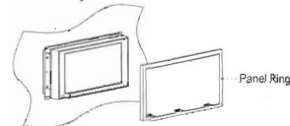
05 Source the half sleeve by bending the metal Tabs. downward



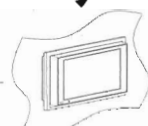
06 Insert the into Dash Board.



07 Set installed



08 Insert the 'Panel Ring' into the slot between Dash board and set.



09 Installation is finished.

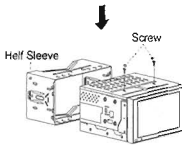
Installation & Connection

How to install

02



01 Unpack the GIFT BOX.



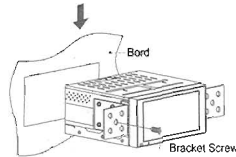
02 Detach the unit from the Half Sleeve.



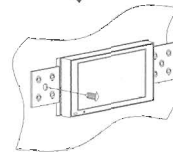
03 Remove the safety screw for Transporting which is on the top of the unit.



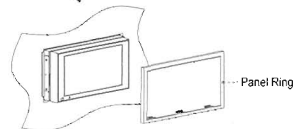
04 Screw a not provided to the right and left side of the set.



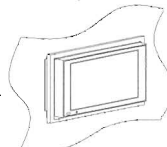
05 Screw the Dash board.



06 Set installed



07 Insert the 'Panel Ring' into the slot between Dash board and set.



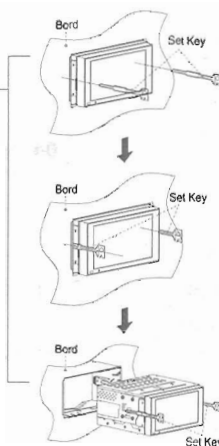
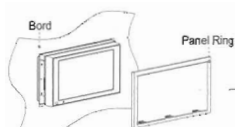
08 Installation is finished.

Installation & Connection

How to disassemble

01

01 Detach the 'Panel Ring' from the front panel.



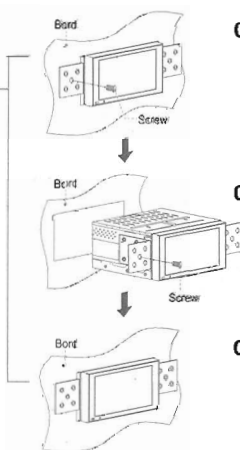
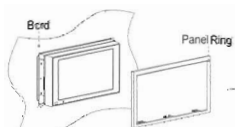
02 Insert the 'Set Key' into the slot between dash board and of the both side of the unit, left and right.

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

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

02

01 Detach the 'Panel Ring' from the front panel.



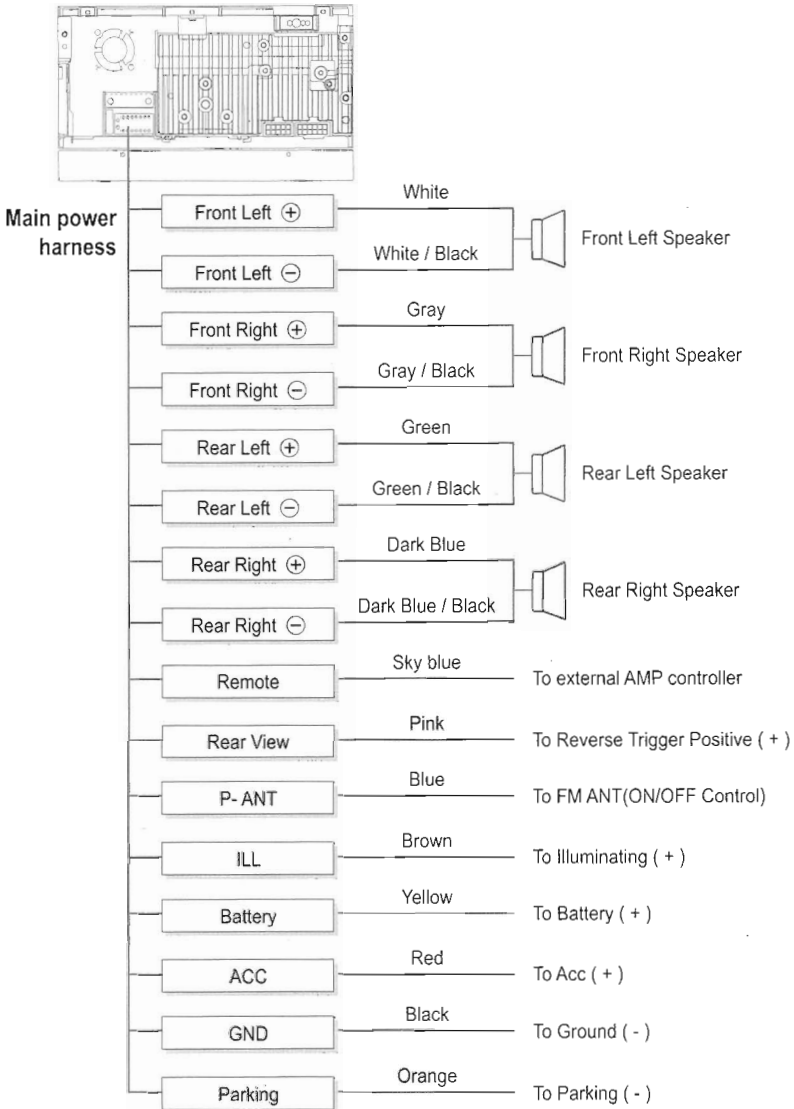
02 Unscrew the form dash board.

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

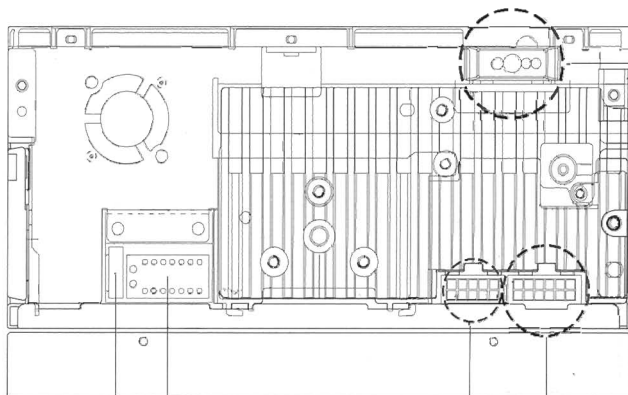
04 Detach the set key from the dash board at the same time

System Connection

OUTPUT connection



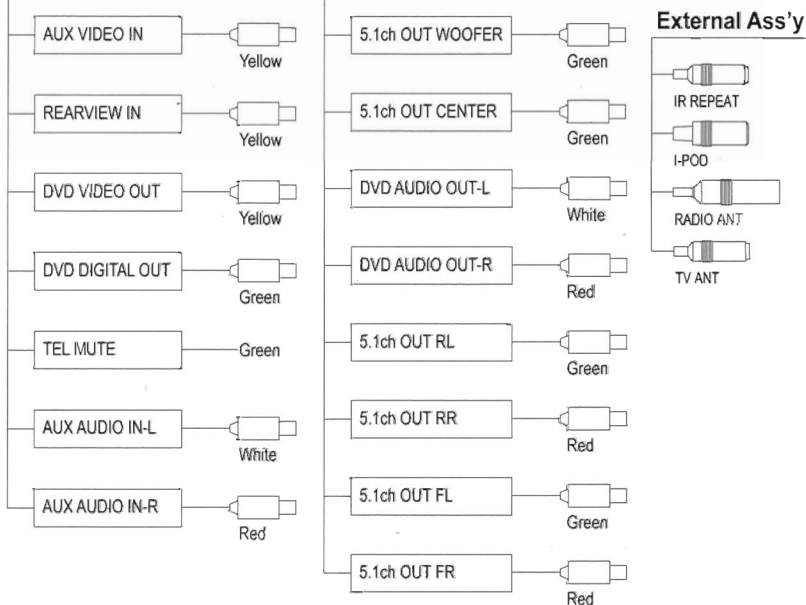
System Connection



Fuse (20A)
Main power harness

A/V IN-OUT Connection

Preout Connection



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 Guide

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

The power does not turn on.

- ➔ The fuse has blown.
After checking for short circuits in the wires, replace the fuse with one having the same rating.
- ➔ 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.

Nothing happens when the buttons are pressed.

- ➔ The computer chip in the unit is not functioning normally.
Press the reset button on the unit.

No television/video image appears.

- ➔ The unit is not connected to the parking brake detection switch.
Make proper connections according to <INSTALLATION >
- ➔ 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.

The screen is dark.

- ➔ 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.

The screen does not darken when the vehicle's lights are turned on.

- ➔ 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.

AM/FM radio reception is poor and/or there is noise.

- ➔ The TV antenna and vehicle's radio antenna are too close.
Separate the two antennas as possible.
Turn Off the main unit.

The remote controller does not operate.

- ➔ The remote control mode selector is not set correctly.
Switch the remote control mode selector according to the source you select page 8.

No sound can be heard, or the volume is low.

- ➔ The fader or balance settings are set all the way to one side.
Reset the fader and/or balance settings.
- ➔ The input/output wires or wiring harness are connected incorrectly.
Reconnect the input/output wires or the wiring harness correctly.
See the section on <INSTALLATION >

The sound quality is poor or distorted.

- ➔ One of the speaker wires is being pinched by a screw in the car.
Check the speaker wiring.
- ➔ The speakers are not wired correctly.
Reconnect the speaker wires so that each output terminal is connected to a different speaker.

Radio reception is poor.

- ➔ The car antenna is not extended.
Pull the antenna out all the way.
- ➔ The antenna control wire is not connected.
Connect the wire correctly, referring to the section on <INSTALLATION >

The memory is erased when the ignition is turned off.

- ➔ The battery wire has not been connected to the proper terminal.
Connect the wire correctly, referring to the section on <INSTALLATION >
- ➔ The ignition and battery wire are incorrectly connected.
Connect the wire correctly, referring to the section on <INSTALLATION >

The sound/picture skips on a DVD/VCD/CD.

- ➔ The disc is scratched or dirty.
Clean the disc, referring to the section on disk cleaning.

A track will not play.

- ➔ Random play has been selected.
Turn off random play.

A VCD cannot be played using menus.

- ➔ 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..

Troubleshooting Guide

The subtitle is not displayed.

- The DVD disc being played does not contain the recording of subtitles.
- The subtitle cannot be displayed when the DVD disc being played does not contain the recording of subtitles.

The voice (or subtitle) language cannot be changed.

- The DVD disc being played does not contain the recording of more than one audio (or subtitle) language.
- 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.

The viewing angle cannot be changed.

- 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.
- 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.

Playback will not start even after a title is selected.

- A viewing restriction (RATING) has been set for the disc.
Check the viewing restriction level (RATING) setting.

The voice or subtitle language selected in the initial setting is not played.

- 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.

Disc source

The specified disc does not play, but another one plays instead.

- The specified CD is quite dirty.
Clean the CD.
- The CD is upside-down.
Load the CD with the labeled side up.

- The disc is loaded in a different slot from that specified.
Eject the disc magazine and check the number for the specified disc.
- The disc is severely scratched.
Try another disc instead.

The sound skips.

- The CD is scratched or dirty.
if skipping happens at the same place when the car is stopped, something with the CD is wrong.
Clean the CD.

The specified track will not play.

- Random play or magazine random play has been selected.
Turn off random play or magazine random play.

Cannot remove disc.

- The cause is that more than 10 minutes has elapsed since the vehicle ACC switch was turned OFF.
The disc can only be removed within 10 minutes of the ACC switch being turned OFF.
If more than 10 minutes has elapsed, turn the ACC switch ON again press the Eject button.

MP3/WMA source

Cannot play an MP3/WMA,

- The media is scratched or dirty.
Clean the media, referring to the Disc cleaning of the section on.

The sound skips when an MP3/WMA is being played.

- The media is scratched or dirty.
Clean the media, referring to the Disc cleaning of the section on.
- The recording condition is bad.
Record the media again or use another media.

The MP3/WMA track time is not displayed correctly.

- Record in conformity with the ID3 tag version 1.x.
Also, the display may be incorrect if an MP3/WMA file uses the ID3 tag v1.x standard and if this standard has been expanded after production of the machine software.

Troubleshooting Guide



TROUBLE	CORRECTIVE ACTION
No Power	Check that DC power cable is connected properly.
No Picture	<ol style="list-style-type: none"> 1. Make sure that the equipment is connected properly. 2. Check that the connected monitor is turned on.
Stopped picture	<ol style="list-style-type: none"> 1. Check that the video cable is connected. 2. Check that the monitor is turned on.
The playback picture is poor.	Clean the disc
No color.	Adjust the video system by changing TV output mode (AUTO, PAL, NTSC)
The remote control doesn't work properly.	Remove any obstacles between the remote controller and remote control sensor of the unit. Operate the remote control at a closer distance to the unit.
ERROR-DISC is displayed on the screen.	<ol style="list-style-type: none"> 1. Turn the power off, then turn it on. 2. Turn the power off, disconnect the power plug, then reconnect it.
ERROR-DISC Check Regional Code is displayed on the screen.	Check in which region the DVD Disc can be played. The DVD Disc is not available of the region code of the DVD Disc is not in conformity to the one of the unit.
No function with the remote control.	Check the batteries and make sure that the batteries are fresh & new, or have enough battery life.
Unable to insert Disc.	<ol style="list-style-type: none"> 1. Check if the protection screw was removed before installation of the unit. (Only at the first insertion after installation.) 2. Pull out Disc and wait for 3 seconds, and insert Disc again.
No Function With all buttons on the unit & remote control.	Press the Hard Reset Key.
Check Point.	<p>When a disc is brought from a cold environment to a hot one, there may be steam on the face of the disc, or water will appear on the pickup lens. it will affect the play.</p> <ol style="list-style-type: none"> 1. Remove the disc from the DVD player. 2. Turn on the power and leave it on for an hour to vaporise the condensation.
Unable to play IPOD	Check that the IPOD cable is connected.

Specifications

DVD&Monitor	Video display system	NTSC (PAL available)
	Display Screen	TFT-LCD 16:9 Aspect Ratio
	Element	TFT-LCD / Active Matrix
	Format	480(W) X 234(H) X 3
	Back Light	CCFL
	Audio Input Level	2.0 Vrms(max)
	Audio Output Level	800mV(Fixed)
	Video Input/Output Level	1+ 0.1Vp-p (75 ohms)
	Video/Signal to Noise Ratio	60 dB
	CD Dynamic Range	93dB (at 1kHz)
	CD Frequency Response	20Hz - 20kHz (±1dB)
	Channel Separation	-80dB or More
	DAC Resolution	24 Bit (Max)
	DVD Dynamic Range	90dB (at 1kHz)
	DVD Freq. Response(48kHz Sampling)	20Hz - 22kHz (±1dB)
	DVD Freq. Response(96kHz Sampling)	20Hz - 44kHz (±1dB)
	Total Harmonic Distortion(THD)	Less than 0.2% (1KHz, 2V rms)
	EMC (FCC Class B)	-3dB Margin
	Shock Proof	All band 1G or More
	Operating Temperature	-20°C to +70°C
Storage Temp.	-40°C to +85°C	
Power Requirement	11 - 16 Volts DC	

FCC (Federal Communications Commission)

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- * Reposition or relocate the receiving antenna.
- * Increase the separation between the equipment and receiver.
- * Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- * Consult the dealer or an experienced radio/TV technician for help.

Modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment under FCC rules.

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