DIGITAL NAVIGATION SYSTEM





Preface

Thank you for purchasing this Audio Navigation System

This user manual explains how to use the KIA Motor Audio Navigation System.

Before using the product, read the contents of this user's manual carefully and use the product safely.

- The screens shown in this manual may differ with the actual screens of the product.
- The design and specification of this product may change without prior notification for product improvement.
- When transferring the vehicle to another individual, include this user's manual so that the next driver can continue its use.

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Introduction

Important information about th manual

This user manual contains instructions related to safety. Closely observe and comply with all of the safety instructions found within this manual.



WARNING!

Disobeying the warnings listed within this user's manual may cause fatal or serious injuries. Warnings indicate matters which may directly lead to accidents.



CAUTION!

Disobeying the cautions listed within this user manual may lead to accidents or cause injury. Cautions indicate matters which may lead to vehicle damage or malfunction.



INFORMATION

Information which the user must be aware or allows for more convenient use of the device.

Precaution for safe usage



- Do not operate the Audio Video Navigation system while driving.
- * Do not disassemble, assemble, or modify the Audio/Video Navigation system.
- * Do not watch the screen for prolonged periods of time while driving.
- * Set the volume to a level which allows the driver to be aware of external conditions.



CAUTION!

- Do not operate the Audio/Video Navigation system for prolonged periods of time with the vehicle ignition in ACC. Such operations may lead to battery discharge.
- * Be cautious not to spill water or introduce foreign objects into the device.
- * Do not cause severe shock to the device. Direct pressure onto the front side of the monitor may cause damage to the LCD or touch panel.

- In case of product malfunction, please contact your place of purchase or service cen-
- When cleaning the touch screen, make sure to turn off the device and use a dry and smooth cloth. Never use tough materials, chemical cloths, or solvents (alcohol, ammonia, benzene, thinners, etc.) as such materials may damage the device panel or cause color and quality deterioration.

Reference Page

This indicates the title and page that you should refer to.



This indicates a button on the control panel.

Noice Command

This indicates an operation by voice command.

Controller and functions کیان باترگ **Control panel**



- Power / Volume control knob
- · Push knob (over 0.8 second): Turns the power off.
- Push knob (under 0.8 second): Each time the knob is pressed, the Audio is turned on and off.
- *Tune knob: The range of volume adjustment is between $0 \sim 35$.

FM/AM button

Each press will change the bands in the following order: $FM1 \rightarrow FM2 \rightarrow AM \rightarrow FM1$

SAT button

Each press will change the bands in the following order : SIRIUS1 \rightarrow SIRIUS2 \rightarrow SIR-IUS3 → SIRIUS1

CD/AUX button

Each press will change the bands in the following order : DISC(CD, MP3) \rightarrow (USB or $iPod) \rightarrow (AUX) \rightarrow DISC(CD, MP3)$

PART 1 PRE-OVERVIEW

- **6** SEEK/TRACK Up/Down button
- SHORT KEY(less than 0.8 second)
- FM/AM Mode: Automatically searches for the previous or next broadcast frequency and starts playing.
- SAT Mode: Receives the previous or next channel.
- CD Mode : Plays the previous or next track.
- MP3, USB Mode: Plays the previous or next file.
- iPod Mode : Plays the previous or next song.
- LONG KEY(over 0.8 second)
- FM/AM Mode: Quickly moves through the frequencies while the button is pressed. Once released, automatically searches for broadcasts which can be received.
- SAT Mode: Quickly moves to the previous or next channel.
- CD Mode : REW/FF the current playing track.
- MP3, USB Mode : REW/FF the current playing file.

Pod Mode : REW/FF the current playing song.

6 TUNE knob

- FM/AM Mode: Turn the knob to search for the desired frequency. Press the knob to receive the selected frequency.
- SAT Mode: Turn the knob to search for the desired channel. Press the knob to receive the selected channel.
- CD Mode: Turn the knob to search for the desired track. Press the knob to play the selected track.
- MP3, USB Mode: Turn the knob to search for the desired file. Press the knob to play the selected file.
- iPod Mode: Turn the knob to search for the desired song. Press the knob to play the selected song.
- MAP button

Displays the map screen for the current position.

® DEST button
Displays the Destination menu screen.

ROUTE button

Displays the Route menu screen.

© SETUP button
Displays the Setup menu screen.

DISC Eject button
 Eject the inserted disc.



Resets the system - if software locks-up.

PHONE button Displays the Bluetooth handsfree screen.

INFORMATION

If pressing the power off knob for over 0.8 second and the system does not shut down, carefully use a straightened paper clip at the access hole shown next to the right DISC indicator LED to reset the software.

The system power will shut-off and restart.

Steering wheel remote controller



Mode

Each time the mode button is pressed, the mode will convert in the following order: FM1 \rightarrow FM2 \rightarrow AM \rightarrow SIRIUS1 \rightarrow SIRIUS2 \rightarrow SIRIUS3 \rightarrow (DISC) \rightarrow (USB or iPod) \rightarrow (AUX) \rightarrow (Phone Music) \rightarrow (FM1).

If a not supported DISC has been inserted or if the corresponding unit has not been connected, the mode will not be recognized

- and automatically switch to the next mode.

 Press this button for over 0.8 second to turn the Audio ON and OFF.
 - Press this button when the Power is turned off to turn the power on.
 - Seek Up/ Down
 - SHORT KEY(less than 0.8 second)
 - FM/AM : Receives the previous or next preset frequency.
 - SIRIUS Mode : Receives the previous or next preset channel.
 - CD Mode: Plays the previous or next track.
 - MP3, USB Mode: Plays the previous or next file.
 - iPod Mode : Plays the previous or next song.
 - LONG KEY(Over 0.8 second)
 - FM/AM Mode: Quickly moves through the frequencies while the button is pressed.
 Once released, it automatically searches for broadcasts which can be received.
 - SIRIUS Mode: Quickly moves to the previous or next channel.

- -CD Mode : REW/FF the current playing track.
- MP3, USB Mode : REW/FF the current playing file.
- iPod Mode : REW/FF the current playing song.
- **(3)** Volume Up/Down

Increases or decreases the speaker volume within a range between 0 ~ 35.

Voice Recognition button Starts Voice Recognition.

6 CALL

Press this key to receive an incoming call. If pressed while in AV/Navigation mode, the Bluetooth handsfree screen will be displayed.

6 END

Press this key to reject an incoming call.

If pressed while on a call, then the call will be ended.

Basic operation and setting

Turning the power O

- ☐ Turn the ignition key onto ACC or ON. If the system power had been on when the ignition was turned off, the system will turn back on automatically.
- ② If the system power had been off when the ignition was turned off, the system will remain off.

In this case, press the PWR/VOL knob to turn on the system power.





1 INFORMATION

As system booting starts from the point the door lock is unlocked, the device may complete booting before the ACC is turned on or the PWR/VOL knob is pressed.

② Once system booting is complete, the most recent operated mode will be displayed. For example, turning on the system will display FM1 radio mode if the last operated mode prior to turning off the system had been FM1 radio mode.

Turning the power OFF

If the PWR/VOL knob is pressed for over 0.8 second, a beep will sound and the system power will be turned off.

Turning the audio ON/OFF

Press the PWR/VOL knob for under 0.8 second with the system power on to turn the Audio on and off.

Noice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command.
 - "Audio On"
 - "Audio Off"

PART 1 PRE-OVERVIEW

1 INFORMATION

Conducting the following operations while the AUDIO is off will automatically turn on the Audio system.

- Pressing the audio related buttons (FM/AM , SAT , CD/AUX).
- Inserting a DISC or connecting an external device.

Adjusting audio volume

Turn the PWR/VOL knob in clockwise direction to increase the volume and counter-clockwise to decrease the volume.

1 INFORMATION

- The range of volume adjustment is between 0 ~ 35.
- Adjustments to the volume cannot be made while the AUDIO is turned off.

How to operate the screen menu

- Operating typical screen menu
 If a menu button on the screen is pressed,
- If a menu button on the screen is pressed, the corresponding function will be operated.
- The same menu button may perform different functions depending on the length of time the button is pressed (under 0.8 seconds or over 0.8 second).

For more information, refer to the specific function within this user manual.

- •The current operated button will be highlighted upon display.
- Buttons which cannot be operated under the current conditions will be displayed in disabled state. Pressing a disabled button will not perform any operation.

Inputting letters by using screen keyboard



ABC: Displays the English alphabet keypad.

ÀÇÈ: Displays the French alphabet keypad. (if available)

0-9: Displays the number and symbol keypad.

Delete: Deletes the previous inputted letter.

Pressing for over 0.8 second will delete
all content.

<u>List</u>: The input is completed.

📤 : Restores to previous screen.

The inputted text will not be saved.

■ Displaying the list



Even if input is not completed, the current matching items from the database will be displayed.

1 INFORMATION

The number at the upper-right side of the screen displays the number of current matches.

Selecting an itemin a list



: Moves to the next page or previous page.



- Press the button to move the cursor to the end of the text.
- Press the button to move the cursor to the front of the text.

Sorting items from the list



Select the desired sorting method to reorganize the list in accordance to the selected method.

How to operate menu by voice command

■ Condition for voice recognition system

Most of the functions within the AV and Navigation system can be operated by voice.

Please follow the instructions below for optimal voice recognition performance.

- Close all windows and sunroof.
 The performance of the voice recognition can be improved in quiet environment.
- Press the voice recognition button and say the desired voice command after the sound of the beep.
- The microphone is positioned above the driver so that voice commands can be said while maintaining a proper posture.
- Pronounce the voice commands naturally and clearly as if in normal conversation.





1 Press the steering wheel remote controller.

A voice command window will be displayed on the lower side of the screen followed by a "Command please" voice comment.

②Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say the desired voice command.

- [Voice command list], page 4-6.
- [Searching a destination by voice command], page 4-20.

INFORMATION

voice command. The system voice instruction comment will immediately terminate. When the icon changes into the icon with a beep sound, it is possible to input voice commands.

Audio sound setting

Press the Sound button on the main screen of each AV mode (FM/AM, SIRIUS, CD, MP3, USB, iPod, and AUX) to display the Audio sound setup screen.



■ FAD/BAL

The position of the sound can be adjusted by using the up-down and left-right (, ,) buttons on the left side of the screen.

Press the Default button to position the sound in the center of the vehicle.

■ BASS/MID/TREB

The BASS/MID/TREB can be adjusted by using the left/right buttons () of each control.

■Auto volume control ON/OFF

Each time the Auto volume control button is pressed, the Auto volume control function is turned on or off.



INFORMATION

The Auto volume control is a function which automatically adjusts the volume level in accordance to changes in vehicle speed.

■ Touch screen Beep ON/OFF

Each time the Touch screen beep button is pressed, the beeping sound that follows each press on the screen will turn on or off.

PART 1 PRE-OVERVIEW

Display setting

Press the **SETUP** button on the control panel to display the Setup menu screen.



Press Display button to display the Display Setup screen.



Display mode

Press the button for the desired display mode from Automatic Daylight and Night

modes. The current selected mode is highlighted.

Automatic

The display is automatically converted between Daylight and Night modes in accordance to the on/off state of the vehicle taillights.

Daylight

The bright screen is always maintained regardless of the on/off state of the vehicle taillights.

Night

The dark screen is always maintained regardless of the on/off state of the vehicle taillights.

■ Brightness

Use the left/right buttons (,) for control to make adjustments.



■ Display ON

Press anywhere on the black screen.

The screen prior to display setting will be displayed.



PART 2 **AUDIO SYSTEM**

| PART 2 | # 00 H / / |
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Operating the radio

FM/AM Radio

■ Listening to the FM/AM radio



- ①Press the FM/AM button on the control panel. The FM/AM radio band of the most recent listened station will be displayed.
- ②Press the FM/AM button to change the desired radio band. Each press will change the bands in the following order:
 FM1 → FM2 → AM → FM1
- Select the desired broadcast frequency.[Selecting FM/AM broadcast frequency], page 2-5.

🎒 Voice Command

- Press the button on the steering wheel remote controller.
- 2. After the beep sound, say a command.
 - " Radio"
 - "(Radio) AM"
 - "(Radio) FM"
 - "FM <1 or 2>"
 - "AM Frequency <530 to 1710>"
 - "FM Frequency <87.5 to 107.9>"
 - "AM Preset <1 to 6>"
 - "FM <1 or 2> Preset <1 to 6>"





- Mode display : Displays the FM1/FM2/ AM modes.
- SEEK/SCAN/PRESET SCAN: If SEEK/SCAN /PRESET SCAN is operating, the switch is displayed.
- **3** Frequency: Displays the current playing frequency.

- 4 STEREO indicator: If the current frequency is a stereo broadcast, the indicator is displayed
- 5 Program Service name: Displays the program service name if data is being broadcasted.
- 6 Program Type name: Displays the program type name if data is being broadcasted.
- 7 Frequency bar: Displays the position of the current frequency within the total frequency range.
- 8 Radio Text: Displays the radio text information if data is being broadcasted.
- BAND button: Changes the desired radio band. Each press will change the bands in the following order: FM1 → FM2 → FM1
- **(b) (c) (■ (b) (b) (c) (c) (d) (d)**
- SHORT KEY(less than 0.8 second)
- The frequency is increased or decreased by 1-step increments (FM: 0.2MHz, AM: 10kHz).

- **LONG KEY(over 0.8 second)**
- The frequency is rapidly increased or decreased by 1-step increments (FM: 0.2MHz, AM: 10kHz) and stops operation upon KEY RELEASE.
- © ► SEEK Up/Down button
- SHORT KEY(less than 0.8 second)
- Automatically searches for the previous or next broadcast frequency and starts playing.
- LONG KEY(over 0.8 second)
- Quickly moves through the frequencies while the button is pressed. Once released, it automatically searches for broadcasts which can be received.
- Preset buttons: The desired frequency can be preset and selected.
 - (Storing FM/AM presets], page 2-5.
- R.Text button: Turns the Radio Text information on and off.

INFORMATION

If the R.Text is on OFF state, text will not be displayed even if there is text being transmitted from the broadcast station.

If the R.Text is on ON state, the frequency bar will not be displayed. Even if the R.Text is on ON state, text may not be displayed if text is not being received from the broadcast station.

- Scan button: Scans all frequencies or just the preset frequencies for 5 seconds each.
 - [Scanning FM/AM broadcast frequency], page 2-5.
- (1) Sound button: Adjusts the FAD/BAL, BASS/MID/TREB controls.
 - [Audio sound setting], page 1-11.

■ Selecting FM/AM broadcast frequency

There are 3 ways to select the broadcast frequency - (a) selecting through presets, (b) selecting through SEEK, (c) selecting through manual search.

(a) Selecting a frequency through presets

Press the preset button of the desired broadcast frequency.



 Press the SEEK A or SEEK V buttons for a short time on the steering wheel remote controller.

The preset frequencies of the current band will be selected in order.

- There are 6 different preset frequencies each for FM1, FM2, and AM modes.
- (Storing FM/AM preset], page 2-5.

📭 ル Voice Command

Press the button on the steering wheel

2. After the beep sound, say a command.

"Preset <1 to 6>"

"Preset Up"

"Preset Down"

(b) Selecting a Broadcast frequency through SEEK

Press the SEEK A or TRACK V buttons on the control panel or the wor buttons on FM1, FM2, and AM mode screens for less than 0.8 second. Once the SEEK function is operating (SEEK indicator blinking), the next or previous broadcast frequency with superior reception will be searched automatically.

1 INFORMATION

• Press the SEEK ∧ or TRACK ∨ buttons on the control panel or the SEEK ∧ or SEEK ∨ buttons on the steering wheel remote controller or the બ or બ buttons on FM1, FM2, and AM mode screens for more

than 0.8 second to quickly move to the nearest desired frequency. Once the button is released, the next frequency with superior reception will be searched automatically.

• While the SEEK function is operating, pressing the SEEK A or TRACK V buttons on the control panel again will terminate SEEK operation and select the current frequency.

Noice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command.

 "Seek Up"

"Seek Down"

(c) Selecting a broadcast frequency through manual search

Press the domain or turn the TUNE knob on the control panel in clockwise or counter-clockwise direction.

Each click on the tune knob or the domain or the buttons will increase or decrease the frequency by 1 step (FM: 0.2 MHz, AM: 10 kHz).

■ Storing FM/AM presets

- Select the desired frequency.[Selecting FM/AM broadcast frequency], page 2-4.
- Press the preset button to store for over 0.8 second. The frequency will become stored along with a beep sound.

1 INFORMATION

Six preset frequencies each for FM1/FM2/AM modes can be stored using the above instructions.

■ Scanning FM/AM broadcast frequency

- 1 Press the Scan button.
- SCAN (less than 0.8 second): Scans all frequencies and plays only frequencies with superior reception for 5 seconds each.

🔰 Voice Comma<mark>n</mark>d

- Press the button on the steering wheel remote controller.
- 2. After the beep sound, say a command.
 "Scan"
- PRESET SCAN (over 0.8 second): Scans the 6 frequencies stored as preset frequencies in the current band for 5 seconds each.

Noice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command.

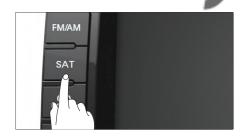
 "Preset Scan"
- Press the Scan button again to continue listening to a frequency.
 The scan will be terminated and the current frequency will continue to be played.

INFORMATION

When scanning has completed an entire revolution, the scan function will be terminated automatically and the previous played frequency will be restored.

SIRIUS radio

■ Listening to the SIRIUS radio



- Press the SAT button on the control panel. The Sirius radio band screen of the most recent listened station will be displayed.
- ②Press the SAT button to change the desired radio band. Each press will change the bands in the following order:

 SIRIUS1→ SIRIUS2→ SIRIUS3→ SIRIUS1
- Select the desired broadcast channel.[Selecting SIRIUS broadcast channel], page 2-7.

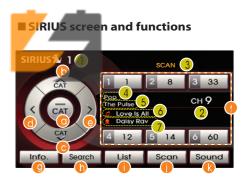
🗬 ル Voice Command

- Press the button on the steering wheel remote controller.
- 2. After the beep sound, say a command. "SIRIUS"

"SIRIUS <1 or 2 or 3>"

"SIRIUS Channel <0 to 223>"

"SIRIUS <1 or 2 or 3> Preset <1 to 6>"



- 1 Mode display: Displays the SIRIUS1/ SIRIUS2/SIRIUS 3 modes.
- 2 Channel number: Displays the current playing channel.
- 3 SCAN/PRESET SCAN indicator: If SCAN/ PRESET SCAN is operating, the switch is displayed.
- 4 Category name: Displays the category name.
- **5** Channel name: Displays the channel name.
- **6** Song/Program title: Display the song or program title.
- 7 Artist name: Displays the artist or other related information.

1 INFORMATION

The Song title display may be delayed in accordance to the reception quality of the Sirius broadcast.

- CAT button : Switches between channel mode and category mode.
 - [Switching the SIRIUS modes], page 2-7.
- (b) (c) (A), (2): Moves to the next or previous category, and automatically plays the first channel within the selected category.
- d ② ★ : Moves to the next or previous channel.
- 1 Preset buttons: The desired channel can be preset and selected.
 - [Storing SIRIUS presets], page 2-9.
- Info. button: Displays the Title, Artist, Composer, and other information for the current received channel if the information exists.
- **Search** button: Selects the channel by directly inputting the channel number.
 - [Selecting SIRIUS broadcast channel], page 2-7.

- List button: Displays the channel or category list.
- ② [Selecting SIRIUS broadcast channel], page 2-7.
- Scan button: Scans all frequencies or just the preset frequencies for 5 seconds each.
 - [Scanning SIRIUS broadcast channel], page 2-10.
- Sound button : Adjusts the FAD/BAL, BASS/MID/TREB controls.
 - [Audio sound setting], page 1-11.

■ Switching the SIRIUS modes (Channel / Category)

Each time the CAT button is pressed, the mode will switch between channel mode and category mode.

Category mode will begin operating when the orange light is turned ON.

Selecting SIRIUS broadcast channel

There are 5 ways to select a broadcast channel - (a) selecting through presets, (b) selecting with channel Up/Down, (c) Selecting a channel through manual search, (d) selecting through channel/category list, (e) selecting by directly inputting the channel number.

(a) Selecting a channel through presets

Press the preset button of the desired channel.

1 INFORMATION

• Press the SEEK ∧ or SEEK ∨ buttons on the steering wheel remote controller for less than 0.8 second.

The preset channels of the current band will be selected in order.

- •There are 6 preset channels each for SIRIUS1, SIRIUS2, and SIRIUS3.
 - [Storing SIRIUS presets], page 2-9.



- 1. Press the steering whee remote controller.
- 2. After the beep sound, say a command

"Preset <1 to 6>"

"Preset Up"

"Preset Down"

(b) Selecting with Channel Up/Down

Press the SEEK \wedge or TRACK \vee buttons on the control panel or the \triangleleft or \triangleright buttons on SIRIUS1, SIRIUS2, or SIRIUS3 mode screens for less than 0.8 second.

The previous or next channel will be selected.

1 INFORMATION

- If in Channel mode, the channel is selected from all channels. If in Category mode, the previous or next channel of each category is selected.
- Press the SEEK ∧ or TRACK ∨ buttons on the control panel or the SEEK ∧ or SEEK ∨ buttons on the steering wheel remote controller or the ≺ or > buttons on SIRIUS1, SIRIUS2, and SIRIUS3 mode screens for more

than 0.8 second to quickly move to the nearest desired channel. Once the button is released, the current channel will be selected.

💽 🔰 Voice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command.

"Channel Up"

"Channel Down"

(c) Selecting a channel through manual search

1 Turn the TUNE knob on the control panel in clockwise or counterclockwise direction. Each click on the TUNE knob will display the channel information of the previous or next channel. The current playing channel will continue to be played.

1 INFORMATION

If in Channel mode, the channel is selected from all channels. If in Category mode, the first channel of each category is selected. 2) Press the TUNE knob at the desired channel. The selected channel will begin playing.

(d) Selecting channel through channel/ category list

- 1) Press the List button.
- •If in channel mode, the Channel list screen will be displayed.



 If in category mode, the Category list screen will be displayed.

Select the desired category button to display the channel list screen for the corresponding category.



Select the desired channel button. The previous screen will be restored and the selected channel will begin playing.

(e) Selecting channel by directly inputting the channel number

1 Press the Search button.

The Channel search screen will be

displayed.



2 Input desired channel number, and press the Done button.

The previous screen will be restored and the selected channel will begin playing.

NINFORMATION

To prevent inputting a channel which exceeds the channel range, numbers which cannot be inputted are set to disabled state.

Noice Command

- 1. Press the **to** button on the steering wheel remote controller.
- 2. After the beep sound, say a command.

 "Channel<0 to 223>"

Storing SIRIUS presets

Select the desired channel.

- Selecting SIRIUS broadcast channel, page 2-7.
- 2 Press the preset button for over 0.8 second.
 - The frequency will be saved along with beep sound.

1 INFORMATION

Six preset frequencies each for SIRIUS1/ SIRIUS2/ SIRIUS3 modes can be stored using the above instructions.

■ Scanning SIRIUS broadcast channel 1 Press the Scan button.

•SCAN (under 0.8 second): Scans all channels for 5 seconds each if in channel mode. If in category mode, scans all channels within the current category for 5 seconds each.

Noice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command. "Scan"
- PRESET SCAN (over 0.8 second): Scans the
 6 preset channels within the current band
 for 5 seconds each

🕦 🕽 Voice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command.

 "Preset Scan"

Press the Scan button again to continue playing the channel.

The scan will be terminated and the current channel will continue to play.

1 INFORMATION

• Within the Channel list screen, if the Skip button next to each channel name is pressed, the selected channel will be excluded from SCAN operation.



- When scanning has completed an entire revolution, the scan function is automatically terminated and the previous played channel will be restored.
- Channel 0 is the radio ID and contains information required for SIRIUS activation.

Browsing detailed information about the SIRIUS channel

1 Press the Info. button.

The detailed information (Title, Artist and Composer) for the current channel will be displayed.



2 Press the OK button.

The detailed information will be turned off.

Operating the CDP

About CDP

■ Precautions upon handling discs

- After using a disc, keep it in the original case to prevent it from becoming scratched, which may cause the CD to make popping sounds.
- Do not use heart-shaped discs, octagonshaped discs, or any other abnormally shaped disc. Such discs may be the cause of malfunctions.
- Do not clean discs with chemical solutions such as record sprays, antistatic sprays, antistatic liquids, benzene, or thinners.
 Such materials may cause the surface of DISC to be unrecoverable.
- Do not expose the disc to direct sunlight for prolonged periods of time. Such exposure may lead to disc deformation.
- Dust, scratch, and other substances may cause popping sound while playing as well as sound deterioration.

- Never place paper on either side of the disc or write on disc surfaces. Sharp writing utensils and inks used in felt-tip pens may cause damage to disc surfaces
- Clean fingerprints and dust off the signal surface (coated side) of the disc with a soft cloth.
- Only soft cloths should be used as there are no grooves for dust to get in as is the case with LPs.
- Copy-protected CDs such as S-type CDs may not function in the device.
- DATA CDs are not supported by the device. (However, such discs may operate abnormally.)

■ For safe and efficient operation

- •Do not disassemble the CDP for repair purposes. Contact your place of purchase in the case of malfunction. (Complete service assistance will not be provided if the user disassembles the device.)
- Do not use water to clean the device.
 Exposure to water may cause damage to the device.

- Be cautious not to introduce foreign substances into the disc insert slot.
 Foreign substances may cause damage to the interior of the device.
- •The device may fail to operate properly in extremely hot or cold temperatures. Discontinue the use of the device unless normal temperature is maintained. (The operational temperature range is: $-10^{\circ}\text{C} \sim 65^{\circ}\text{C}$).
- Steam can be condensed on the fiberoptic lens due to rain, wet conditions, or upon operating the heating system.
- •Skipping may occur to the audio when driving on bumpy roads for prolonged periods of time or upon severe shock to the vehicle.
- Do not use chemical solvent to clean the device. Such solvents may cause damage to the surfaces of the device.
 Always use a clean and dry cloth.

↑ WARNING!

Always give your full attention to driving. Avoid operating your system in such a way that you can be distracted driving vehicle operation.

■ Supported disc formats

•The disc types supported by this device are as shown below.

| Disc Size | |
|-----------------|--|
| 3-inch (7.6 cm) | |
| 5-inch (12.7cm) | |

| Disc format | Disc m <mark>edia</mark> | Disc format |
|-------------|--------------------------|-------------|
| | CD | CD-DA |
| | CD-R | MP3 |
| • | CD-RW | WMA |
| | Multisession-CD | DTS-CD |
| CD | | CD-ROM |
| | | CD-G |
| | | CD-EXTRA |
| | | CD-TEXT |
| SACD | SACD | |
| | SACD(Hybrid) | |

| Disc format | Audio format |
|-------------|---------------|
| CD | LPCM |
| MP3 | MPEG1, Layer3 |
| | MPEG2, Layer3 |
| | MPEG2.5 |
| WMA | Ver9 |

- CD-R or CD-RW DISC burned with a bulk CD without quality guarantees may not be recognized by the device.
- •Inserting an abnormal disc may result in faulty operation or recognition.

■ Disc/Content format compatibility ■ ●

- Ordinary disc compatibility
- This device has been designed manufactured to be compatible with software bearing the following logo marks.







Audio-CD

CD-RW

- CD-R
- CD-R/RW discs (Audio CD and MP3 CD) created with CD-writing devices or personal computers may not properly function in the device. This may be caused by damaged recording method, contamination by dirt and other foreign substance on the disc surfaces or play lens, and various other reasons.
- Special formats or special features regarding software
- CD-R/RW Compatibility.
- This device operates as a CD-ROM including CD-R and CD-RW DISC written in CD Audio or MP3 CD Format.

However, other contents may cause abnormal disc operation such noise. The writing of CD-R and CD-RW discs with this device is not supported.

- Although CD-R/RW discs burned as audio CDs which have not been finalized are not supported by the device, some information such as play time may be displayed.
- PC-created DISC compatibility.
- · When recording a disc with a personal computer, even discs recorded in a "format compatible" with the formats described above may not operate on the device caused by software settings of the recording application.

In such cases, contact the software developer.

· Additional information regarding compatibility can be found on the CD-R/ RW software disc box.

DVD-R/RW are not supported by the device.

 Compressed audio compatibility This device plays audio files compressed by MPEG-1 audio stream layer 3(MP3) using 32,

- 44.1 and 48kHz fixed bit rates, Incompatible files are not supported.
- Variable bit rate files may operate, but the play time information may not be properly displayed.
- Physical formats of CD: Model 1, Model 2 XA format 1.
- This device only supports tracks with file extension of ".MP3" or ".WMA".
- •This device does not support multisession discs.
- This device supports a maximum of 256 folders and maximum 512 files. Folders and files which exceed this limit
- will not be supported.
- There are various bit rates which can be encoded onto a MP3 file.

This device has been designed to be compatible with various bit rates.

Audio which has been encoded at 128kbps will sound similar to CD audio sound quality.

MP3 tracks, such tracks may only provide low quality sound.

• For stable operation, the use of files in 95kbps ~ 192kbps bit rate range and 44.1kHz SAMPLING frequency is recommended.

Insert the disc into the slot

The disc will begin playing automatically after it has been inserted.

INFORMATION

If the operation mode had been Audio mode before inserting the disc, the device will convert to the DISC mode screen and begin playing.

If the operation mode had been Navigation mode, then Navigation mode screen will remain and the disc play status will be displayed through the Audio bar.

■ Ejecting a Disc

Press the button.

The disc will immediately be stopped and ejected.

If the operation mode had been in Audio mode before ejecting the disc, the device will be converted back to Audio mode.

If the operation mode had been in Navigation mode, then Navigation mode screen will remain.

• If the disc is straddled on the slot without removing for approximately 10 seconds, the disc will be re-inserted automatically into the disc player.

In such a case, the disc will not begin playing automatically.

CD

■ Listening to CD musi



- ①Insert the CD or press the CD/AUX button on the control panel if the CD is already inserted.
- 2 Select the desired track.
 - [Selecting the CD track], page 2-16.

Noice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command. "DISC"

"CD"

"CD Track <1 to 665>"

CD screen and functions



- Mode display : Displays that the current mode is CD mode.
- RANDOM/REPEAT/SCAN indicator: If RANDOM/REPEAT/SCAN is operating, the switch is displayed.
- 3 Play time: Displays the play time.
- 4 Track number: Displays the current playing track number.
- button : Plays or pauses the current track.
- b c w button: REW or FF
 - (Selecting the CD track], page 2-17.

- REW/FF CD track], page 2-17.
- (1) Random button: Plays the tracks on the disc in random order.
 - [Setting Random function for CD music], page 2-17.
- Repeat button: Repeats the current playing track.
 - [Setting Repeat function for CD music], page 2-18.
- (h) Scan button: Scans all tracks on the disc for 10 seconds each.
 - [Scanning CD track], page 2-18.
- (i) Sound button: Adjusts the FAD/BAL, BASS/MID/TREB controls.
 - [Audio sound setting], page 1-11.

■ Selecting the CD track

There are 2 ways to select a CD Track - (a selecting through Track Up/Down, (b) selecting through searching Track.

(a) Selecting through Track Up / Down

Press the SEEK \(\) or TRACK \(\) buttons on the control panel or the SEEK \(\) or SEEK \(\) buttons on the steering wheel remote controller or the \(\) buttons on the screen for less than 0.8 second.

The next or previous track will begin playing.

1 INFORMATION

If the TRACK \vee button on the control panel or the SEEK \wedge button on the steering wheel remote controller or the \bowtie button on the screen is pressed shortly while the track has played for more than 3 seconds, the start of the current track will begin playing.

If the track has been playing for less than 2 seconds, the start of the previous track will begin playing.

🗬 ル Voice Command

Press the button on the steering wheel

2. After the beep sound, say a command.

"Next Track"

"Previous Track"

(b) Selecting track through search

1 Turn the TUNE knob on the control panel in clockwise or counter-clockwise direction.

Each click on the TUNE knob will display the information of the next or previous track. The current playing track will continue to be played.

2 Press the TUNE knob at the desired track.

The searched track will begin playing.

REW/FF CD track

Press and hold the SEEK A or TRACK V buttons on the control panel or steering wheel remote controller or the 🖼 or 🖼

buttons for over 0.8 second.

The track will play 20 times faster while holding the button and return to normal play when the button is released.

■ Setting Random function for CD music

Press the Random button.

Each press will change the function in the following order: RANDOM \rightarrow RANDOM OFF \rightarrow RANDOM

* RANDOM: plays all tracks in the disc in random order.

🕦 Woice Command

- 1. Press the button on the steering wheel remote controller.
- 2. After the beep sound, say a command.

 "Random"

Say "Random" or "Random Folder" again or say "Normal Play" in order to terminate the set Random function.

■ Setting Repeat function for CD music

Press the Repeat button. Each press will change the function in the following order: REPEAT \rightarrow REPEAT OFF \rightarrow REPEAT

* REPEAT: repeats the current playing track.

Noice Command

- 1. Press the steering wheel remote controller.
- After the beep sound, say a command.
 "Repeat Track"
 Say "Repeat File" or "Repeat Folder" again or say "Normal Play" in order to terminate the set Repeat.

Scanning CD track

- (1) Press the Scan button, Each press will change the function in the following order: SCAN → SCAN OFF → SCAN.
- * SCAN : Scans all tracks in the disc for 10 seconds each.

🔃 🕦 Voice Command

- 1. Press the steering wheel remote controller.
- $2. \ After the beep sound, say a command.\\$

"Scan"

Say "Normal Play" in order to terminate the set Scan function.

② Press the Scan button again to continue listening to the track.

The scan will be terminated and the current track will continue to be played.

1 INFORMATION

When scanning has completed an entire revolution, the scan function is automatically terminated and the previous played track will be restored.

MP3

■ MP3 disc related information and precaution

- Information
- The MP3 file standards supported by the device are as follows.
- Acceptable standard: MPEG1 AUDIO
 LAYER 3
- Acceptable sampling frequency: 32, 44.1, 48 (KHz)
- Acceptable bit rate: 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 (kbps)
- Recommended bit rate & reference sampling frequency: 96,128, 192 kbps fixed bit rate /44.1KHz
- ID3 tag

This device supports ID3v1.0, ID3v1.1, ID3v2.2, ID3v2.3, and ID3v2.4 ID3 tags.

Supported media

The MP3 media supported by the device are CD-ROM and USB.

Supported media form<mark>at</mark>s

This device supports ISO9660 LEVEL1 and LEVEL2. Detailed specification is as below.

- Maximum directory layers
- Maximum folder length: 64 Bytes, file name length: 64 Bytes
- Supported characters for folder name/ file name: Alphanumeric characters, Korean standard character set 2350 characters, Simplified Chinese 4888 characters
- Maximum number of folders which can be stored onto one disc: 256 folders (including ROOT directory)
- Maximum number of files which can be stored onto one disc: 512 files
- Precautions upon burning MP3 files
- The use of ISO 9660 LEVEL 2 JULIET format is recommended when burning MP3 files. Burning in other formats may abnormally display the file names.
- It is possible to display up to 32 characters for file and folder names in case of UNICODE, and up to 64 characters in case of ASCII.

Although the full length of the file name can be displayed by using the scroll function, the full length of folder names may not be displayed as the scroll function does not operate when displaying folder names.

Precaution

Please use an MP3 bit rate which is less than 128 kbps.

The sound quality cannot be guaranteed for MP3s exceeding 128kbps.

■ Listening to MP3 music



- ① Insert the MP3 disc or press the CD/AUX button on the control panel if the MP3 disc is already inserted.
- Select the desired file.[Selecting the MP3 file], page 2-21.

Noice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command. "DISC"

"CD"

"MP3"

MP3 screen and functions



- 1 Mode display: Displays that the current mode is MP3 disc mode. (MP3 files on DVDs are not supported.)
- ? REPEAT/RANDOM/SCAN indicator: If REPEAT/RANDOM/SCAN is operating, the switch is displayed.
- 3 Play file position : Current playing file / total files
- 4 Play time: Displays the play time.
- 5 Folder name: Displays the folder name. File name: Displays the file name.
- **b** button: Plays or pauses the current file.

- betton: REW or FF. ⟨ [REW/FF MP3 file], page 2-22.
- button : Previous or next
 - [Selecting the MP3 file], page 2-21.
- Random button: Plays all files on the disc or folder in random order.
 - [Setting Random function for MP3 file], page 2-22.
- Repeat button : Repeats the current playing folder or file.
 - [Setting Repeat function for MP3 file], page 2-23.
- button: Scans all files on the disc or folder for 10 seconds each.
 - (Scanning MP3 file], page 2-23.
- List button: Displays the MP3 folders and file lists for the disc.
 - [Selecting the MP3 file], page 2-21.
- Info. button: Displays or hides the detailed file information for the current playing file.
- [Browsing detailed information about the MP3 file], page 2-22.

PART 2 AUDIO SYSTEM

Sound button : Adjusts the FAD/BAL, BASS/MID/TREB controls.
Q [Audio sound setting], page 1-11.

■ Selecting the MP3 file

There are 3 ways to select an MP3 file - (a) selecting through file up/down, (b) selecting through searching files, (c) selecting through MP3 list.

(a) Selecting through File Up / Down

Press the SEEK A or TRACK V buttons on the control panel or the SEEK A or SEEK V buttons on the steering wheel remote controller or the wor buttons on the screen for less than 0.8 second.

The next or previous file will begin playing.

1 INFORMATION

If the TRACK y button on the control panel or the SEEK y button on the steering wheel remote controller the way button on the screen is pressed shortly while the file has played for more than 3 seconds, the start of

• the current file will begin playing.

If the file has been playing for less than 2 seconds, the start of the previous file will begin playing.

💽 🌒 Voice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command.

"Next File"

"Previous File"

"Next Folder"

"Previous Folder"

(b) Selecting through search

<u>Turn the Tune</u> knob on the control panel in clockwise or counter-clockwise direction.

Each click on the **TUNE** knob will display the information of the next or previous file. The current playing file will continue to be played.

1 INFORMATION

If the operation of the TUNE knob is too rapid, there may be a delay in displaying the file information.

② Press the TUNE knob at the desired file.
The searched file will begin playing.

(c) Selecting through MP3 List

1) Press the List button.

The file list of the folder for the current playing file will be displayed.

1 INFORMATION

 If many songs and folders are recorded onto a DISC, file loading time may be longer and cause the play list to be improperly displayed or song search through TUNE operation to operate improperly.

In such cases, wait until file loading is complete and try again.

 Within the MP3 list screen, if the Now playing button is pressed while searching for files within a folder or a page, the current playing file list will become displayed.



Press the desired menu to return to the main screen and play the selected file.

■ REW/FF MP3 file

Press and hold the SEEK \bigwedge or TRACK \bigvee buttons on the control panel or the SEEK \bigwedge or SEEK \bigvee buttons on the steering wheel remote controller or the \bigvee or \bigvee buttons for over 0.8 second.

The file will play 20 times faster while holding the button and return to normal play when the button is released.

■ Browsing detailed information about the MP3 file

The detailed information (Title, Album, Artist) for the current playing MP3 will be displayed.



2 Press the OK button.

The detailed information will be turned off.

Setting Random function for MP3

Press the Random button.

- * RANDOM (less than 0.8 second): Plays all files in the disc in random order
- * FOLDER RANDOM (over 0.8 second):
 Plays the files in the current folder in random order.

Noice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command.
 "Random"

"Random Folder"

Say "Random" or "Random Folder" again or say "Normal Play" in order to terminate the set Random function.

②Press the Random button again to continue listening to the current file.
The random selection will be terminated and the current file will continue to play.

PART 2 AUDIO SYSTEM

■ Setting Repeat function for MP3 file ■ Scanning MP3 file

1) Press the Repeat button.

- * REPEAT (less than 0.8 second): Repeat the current playing file
- *FOLDER REPEAT (over 0.8 second): Repeats the files in the current folder

💽 🌒 Voice Command

- 1. Press the of button on the steering wheel remote controller.
- 2. After the beep sound, say a command.

"Repeat File"

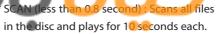
"Repeat Folder"

Say "Repeat File" or "Repeat Folder" again or say "Normal Play" in order to terminate the set Repeat function.

2) Press the Repeat button again to stop repeating the current file.

The repeat selection will be terminated and the current file will continue to play once until the next file starts to play.

Press the Scan button.



* FOLDER SCAN (over 0.8 second): Scans all files in the current folder for 10 seconds each.

Material ProofNoice Command

- 1. Press the we button on the steering wheel remote controller.
- 2. After the beep sound, say a command.

"Scan"

"Folder Scan"

Say "Normal Play" in order to terminate the set Scan function.

2) Press the Scan button again to continue listening to the file.

The scan selection will be terminated and the current file will continue to play.

Vhen scanning has completed an entire revolution, the scan function is automatically terminated and the previous played file will be restored.

Operating the external devices and may not properly operate or display all of

iPod®

iPod [®] is a registered trademark of Apple Inc.

■ Connecting iPod devices

Connect the iPod device as shown in the picture.



The identification of the iPod device, battery recharge, and other functions provided by the iPod device can be normally supported only by using a separated sold iPod connector cable.

If the USB cable provided upon purchasing the iPod for charging is used as the connector cable, the device will be recognized as a USB and may not properly operate or display all of the display information.

Supported iPod devices: iPod 3G, iPod 5G,

5.56, iPod Mini, iPod Nano 1G, 2G.

If iPod mode cannot be entered due to identification error, no track, incompatible protocol version, or other reasons, a pop-up message "No Media Connected" will be displayed for 5 seconds and return automatically to the previous mode.

If the message continues even after reconnecting the iPod, check to see if there are any problems with the iPod device.

lack

CAUTION

If a playing iPod is connected to the audio system, a high-pitched tone may occur for approximately 1-2 seconds.

Please turn the iPod device to pause/stop prior to connecting it to the vehicle.

Listening to music from iPod



①Connect the iPod or press the CD/AUX button on the control panel if the iPod is already connected.

1 INFORMATION

Even if the iPod is connected, the 'No Media Connected' message may be displayed if an error has occurred. In such a case, reconnect the iPod.

2 Select the desired song.

[Selecting music from iPod], page 2-26.

PART 2 AUDIO SYSTEM

1 INFORMATION

An iPod cable assembly can be purchased your local KIA dealer.

🕦) Voice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command. "iPod"

iPod screen and functions



- Mode display: Displays that the current mode is iPod mode.
- 2 RANDOM/REPEAT indicator: If RANDOM/ REPEAT is operating, the switch is displayed.
- 3 Play file position: Current playing file / total files
- 4 Play time: Displays the play time.
- 5 Category name: Displays the category name of the playing file.
- 6 Title name: Displays the title name of the playing file.
- button : Plays or pauses the

- button: REW or FF.

 [REW/FF iPod music], page2-27.
- button : Previous or next
 - [Selcting music from iPod], page 2-26.
- Random button: Plays all music in the current playing list in random order or randomly in album unit.
 - [Setting Random function for iPod music], page 2-27.
- Repeat button: Repeats the current playing music.
 - [Setting Repeat function for iPod music], page 2-28.
- Menu button : Converts to the category menu screen.
 - Selecting music from iPod], page 2-26.
- Info. button: Displays or hides the detailed file information for the current playing file.
 - [Browsing detailed information about the iPod music], page 2-28.
- Sound button: Adjusts the FAD/BAL, BASS/MID/TREB controls.
 - [Audio sound setting], page 1-10.

■ Selecting music from iPod

There are 3 ways to select songs from the iPod device - (a) selecting song through Up/Down, (b) selecting song through sequential search, (c) selecting song through menu.

(a) Selecting song through Up / Down

Press the SEEK Λ or TRACK V buttons on the control panel or the SEEK Λ or SEEK V buttons on the steering wheel remote controller or the V or V buttons on the screen for less than 0.8 second. The next or previous song will begin playing.

1 INFORMATION

If the TRACK V button on the control panel or the SEEK V button on the steering wheel remote controller or the button on the screen is pressed shortly while the song is playing for more than 3 seconds, the start of the current song will begin playing. If the song has been playing for less than 2 seconds, the start of the previous song will begin playing.

Voice Command

- 1. Press the Lead button on the steering wheel
- 2. After the beep sound, say a command."Next Song""Previous Song"

(b) Selecting song through search

Turn the TUNE knob on the control panel in clockwise or counter-clockwise direction. Each click on the TUNE knob will display the information of the next or previous song. The current playing song will continue to be played.

1 INFORMATION

If the operation of the TUNE knob is too rapid, there may be a delay in displaying the song information.

Press the TUNE knob at the desired song.
The searched song will begin playing.

(c) Selecting song through Menu

1) Press the Menu button.

The iPod menu screen will be displayed.



Press the button for the desired search method.

1 INFORMATION

If the search mode is accessed while playing a song, the most recent searched step will be displayed.

The search steps upon initial connection are listed below.

PART 2 AUDIO SYSTEM

| | 1 Step | 2 Step | 3 Step | 4 Step | |
|------------|----------|---------|--------|--------|--|
| Playlist | Playlist | | Song | JU | |
| Genre | Genre | Artist | Album | Song | |
| Artist | Artist | Album | Song | | |
| Composer | Composer | Album | Song | | |
| Album | Album | Song | | | |
| Audiobooks | Song | | | | |
| Songs | Song | | | | |
| Podcasts | Program | Episode | | | |



② Press the desired song button to return to the main screen and play the selected song.

■ REW/FF iPod music

Press and hold the SEEK A or TRACK V buttons on the control panel or the SEEK A or SEEK V buttons on the steering wheel remote controller or the work buttons for over 0.8 second.

The song will play 20 times faster while holding the button and return to normal play when the button is released.

Setting Random function for iPod music

1 Press the Random button.

- * RANDOM (less than 0.8 second): Plays all files in the current playing list in random order.
- * ALBUM RANDOM (over 0.8 second): Plays the songs in the current playing list randomly in Album units.

Noice Command

- 1. Press the steering wheel remote controller.
- 2. After the beep sound, say a command.
 "Random"

"Random Album"

Say "Random" or "Random Album" again or say "Normal Play" in order to terminate the set Random.

Press the Random button again to continue listening to the current song. The random selection will be terminated and the current song will continue to play.

■ Setting Repeat function for iPod music

1) Press the Repeat button

Each press will change the function in the following order: REPEAT \rightarrow REPEAT OFF \rightarrow REPEAT

* REPEAT : Repeats the current playing song.

Noice Command

- 1. Press the steering wheel remote controller.
- After the beep sound, say a command.

 "Repeat Song"

 Say "Normal Play" in order to terminate.

 "The say of the same of th

Say "Normal Play" in order to terminate the set Repeat function.

■ Browsing detailed information about the iPod music

1 Press the Info. button.

The detailed information (Title, Album and Artist) for the current channel will be displayed.



2 Press the OK button.

The detailed information will be turned off.



USB

■ USB MP3 related information and precaution

- Information
- The MP3 file standards supported by the device are as follows.
- Acceptable standard: MPEG1 AUDIO
 LAYER 3
- Acceptable sampling frequency: 32, 44.1, 48 (kHz)
- Acceptable bit rate: 32, 40, 48, 56, 64, 80,
 96, 112, 128, 160, 192, 224, 256, 320 (kbps)
- Recommended bit rate & reference sampling frequency: 96,128, 192 kbps fixed bit rate /44.1kHz
- ID3 tag

This device supports ID3v1.0, ID3v1.1, ID3v2.2, ID3v2.3, and ID3v2.4 ID3 tags.

Supported media

The MP3 media supported by the device are CD-ROM and USB.

Supported media formats

This device supports ISO9660 LEVEL1 and LEVEL2. Detailed specification is as below.

- · Maximum directory layers: 20 layers
- Maximum length of folder name/file name: 250Bytes
- Supported characters for folder name/ file name: Alphanumeric characters, Korean standard character set 2350 characters, Simplified Chinese 4888 characters
- Maximum number of folders which can be stored onto one USB: 2000 folders (including ROOT directory)
- Maximum number of files which can be stored onto one USB: 6000 files
- Precautions upon formatting USB & downloading MP3 files
- The device only supports FAT type USB file system. The device will not play USB media content if the USB is NTFS type.

Precaution

Please use an MP3 bit rate which is less than 192kbps and a fixed bit rate.

The sound quality cannot be guaranteed for

MP3s exceeding 192Kbps and operation of specific functions (limited to FF/REW functions) may be abnormal with variable bit rates.

■ Precautions upon handling USB

- When using the external USB device, make sure to keep the device disconnected and connect only some time after turning on the vehicle ignition. The USB device may be damaged if the USB device already connected when the ignition is turned on. (USB device is not an electronic automotive component)
- The external USB device may not operate if the USB device already connected when vehicle ignition is turned on or off.
- The device will not operate when playing a format which is not MP3 or WMA file formats.
- ①Only MP3 files with compression rates between 8kbps~320kbps are supported.

- between 8kbps~320kbps are supported.
- Be cautious of static electricity when connecting/disconnecting the external USB device.
- Encoded MP3 Players will not be recognized when connected as the external device.
- When connecting an external USB device. the device may not properly recognize the USB when the USB is in some states.
- When formatting the external USB device, the device may not properly be properly recognize a Byte/Sector selection other than 512Byte or 2048Byte.
- The device will only recognize USB devices formatted in FAT 12/16/32.
- Some USB devices may not operate properly because of compatibility issues. Verify that the external device is supported by the device before starting use.
- Avoid contact between the USB connector with bodily parts and foreign substances.

- 2) Only WMA files with compression rates Repeatedly connecting disconnecting the USB in a short period of time may cause damage to the device
 - When disconnecting the USB, an abnormal sound may occur occasionally.
 - Abruptly disconnecting the external USB device while the USB is operating may cause the device to be damaged or function abnormally.
 - Make sure to disconnect the USB device only after the audio power is turned off or when the audio is operating in a different mode.
 - The amount of time required to recognize the external USB device may differ depending on the type, size, or file formats stored on the USB. Such differences in the required time are not indications of malfunction. Please wait for the required period of
 - The device supports only USB devices used to play music files.

time to recognize the device.

- Do not use the USB I/F to charge batteries or USB accessories which generate heat. Such acts may lead to deteriorated performance or damage to the device.
- •The device may not recognize the USB device if separately purchased USB hubs and extension cables are being used. Connect the USB directly to the multimedia terminal of the vehicle.
- In the case of high capacity USB devices, there are instances where the logical drives are partitioned for user convenience. In this case, only the USB music in the toplevel logical drive will be possible to play. When using partitioned drives, save the desired songs to play on the device only in the top-level logical drive.

In addition, certain USB devices are configured with a separate drive used to install application programs and songs from such drives may not be possible to play for the reasons as described above.

PART 2 AUDIO SYSTEM

- The device may not support normal operation if MP3 Players, cellular phones, digital cameras, or other electronic devices (USB devices not recognized as portable disk drives) are connected to the device.
- The device may not support normal operation when using a USB memory type besides the Metal Cover Type USB Memory.
- •The device may not support normal operation when using formats such as HDD Type, CF, or SD Memory.
- The device will not support files locked by DRM (Digital Rights Management).
- The device may not support. Please make sure to use normal operation if the proper connection with the USB memory fails due to vibrations caused by the vehicle. (istick type, etc.)
- Please avoid using USB memory products which can be used as key chains or cellular phone accessories as they could cause damage to the USB jack.

• The device may not support normal Please make certain only to use plug type operation if MP3 Players, cellular phones, connector products as shown below.



■ Connecting the USB devices

Connect the USB as shown in the picture.





①Connect a USB or press the CD/AUX button on the control panel if the USB is already connected.

2 Select the desired file.

[Selecting the MP3 file], page 2-21.

1 INFORMATION

The USB screen and operation method is the same with MP3 mode.

Please refer to the MP3 mode section for more information.



Noice Command

- 1. Press the button on the steering wheel remote controller.
- 2. After the beep sound, say a command. "USB"



Connect the external Audio player as shown in the picture.



INFORMATION

Connect only by using AUX terminals.





Connect an AUX or press the CD/AUX button on the control panel if the AUX is already connected.



- 1. Press the 🔣 button on the steering wheel remote controller.
- 2. After the beep sound, say a command. "Line In"

PART 2 AUDIO SYSTEM



Audio AUX screen



PART 3 NAVIGATION SYSTEM Deleting an address of address

| setup and information |
|---|
| Setup menu screen and functions $ \cdots $ 3-36 |
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| Setting voice command feedback ON/OFF |
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| |



Limitations of the navigation system

GPS signal reception state

 As the GPS satellite frequency is received /transmitted in straight lines, reception may not work if hiding devices are placed on or near the GPS antenna or when traveling through the following locations.



Tunnels



• Basement parking structures



· Underneath an overpass



· Roads within forested areas



Areas near high rise buildings



· Roads within canyons

Vehicle position display

- If multipass errors occur due to reflections from buildings or related causes, the current position mark on the navigation may differ from the actual position of the vehicle.
- The position of the vehicle on the navigation may be different from the actual position if the vehicle is under the following conditions. If such differences occur, driving for a short period of time will automatically correct the position of the vehicle through map matching or GPS information (several minutes may be necessary in certain cases).
- When driving on a Y-shaped road with a narrow angle, the current position may be displayed in the opposite direction.
- If the vehicle is loaded onto a ferry or a car transport vehicle, the current position mark may be stalled on the last position prior to loading.

- When driving on a spiral-shaped road.
 When driving in mountain regions with sharp turns or sudden brakes.
- When entering a road after having been in an underground parking structure, building parking structure, or turntable with many rotations.
- When the tires have recently been replaced (Especially upon use of spare or studless tires)
- If the battery terminal is removed.
- When driving in city streets, the current position may be displayed on the opposite side or on an off-road position.
- When changing the zoom level from the maximum zoom in level to a different zoom level, the current position mark may be displayed on a different road.
- When driving in heavy traffic with frequent go · stops in traffic or intersections.
- When driving under slippery conditions, such as heavy sand, snow, etc.
- When driving with the tire chain in place.

- When using a tire with an incorrect size specification.
- When the tire pressure for the 4 tires are different.
- When the replacement tire is a worn or used tire (Especially studless tires having passed a 2nd seasons, etc.)
- · When driving near high-rise buildings
- · If a roof carrier has been installed
- When driving under high speeds or having calculated a long-distance route.

Route Guidance

- Suitable route guidance may not occur caused by search conditions or the driving position.
- Guidance to go straight may be given while driving on a straight road.
- Guidance may not be given even when having turned at an intersection.
- There are certain intersections in which guidance may not occur.
- A route guidance signaling for a U-Turn in a No U-Turn location may occur.
- A route guidance signaling entrance into a no enter zone may occur (No enter zone, road under construction, etc.).
- Guidance may be given to a position removed from the actual destination if roads to reach the actual destination do not exist or are too parrow.

- Faulty voice guidance may be given if the vehicle breaks from the designated route (ex: if a turn is made at an intersection while the navigation provided guidance to go straight).
- Map Data may be missing or incorrect causing route guidance to not be given.

Route Re-calculation

- The following phenomena may occur after conducting route recalculation.
- Guidance may be given to a position differing from the current position when turning at an intersection.
- Route Recalculation may take a longer period of time when driving under high speeds.
- A route guidance signaling for a U-Turn in a No U-Turn location may occur.
- A route guidance signaling entrance into a no enter zone may occur (No enter zone, road under construction, etc).
- Guidance may be given to a position removed from the actual destination if roads to reach the actual destination do not exist or are too narrow.
- Faulty voice guidance may be given if the vehicle breaks from the designated route (ex: if a turn is made at an intersection while the navigation provided guidance to go straight)

Starting navigation system •• Map Functions



Press the Navigation mode key (MAPVOICE, DEST, ROUTE, SETUP). The Caution screen will always be displayed when first entering into Navigation mode. Read the contents of the caution screen carefully and press the Agree button.

Current position map screen (without route)



Press the MAPVOICE key on the control panel to display the map of current position and the neighboring area.



- GPS signal state indicator : Displays the state of GPS signal reception.
 - [Viewing GPS signal state], page 3-7.
 - 2 Map scale level indicator : Displays the current map scale.
 - (Changing the map scale), page 3-8.
- 3 Landmark icons: Landmark icons are displayed on the map when the map scale level is set to under 300 ft (100m depending on map data)
 - [Appendix: Landmark icons], page 7-11.
- 4 POI icons: POI icons are displayed on the map when the map scale level is set to under 0.5 mi (800m).
 - [Appendix : POI icons], page 7-8.
- **5** Current vehicle position icon : Displays the current position of the vehicle.

- O North Up / Heading Up switch: Displays the current map mode and the map mode can be switched between North Up and Heading Up.
 - [Switching map mode], page 3-6.
- Del: Displays or hides the POI icon on the map.
 - [Displaying/Hiding POI icons on the map], page 3-9.
- Map scale : Increases or decreases the map scale.
 - (Changing the map scale), page 3-8.

Switching map mode (North Up / Heading Up)

Each time the compass button is pressed, the screen will switch in the order shown below.

 $Heading\ Up \to North\ Up \to Heading\ Up$



All map screens (map screen after setting destination & whole route display screen) except the current position screen will always be displayed in North Up mode.



 North Up: displays the map always facing the North direction regardless of the direction which the vehicle is traveling. The vehicle icon is displayed in the center position of the map.



 Heading Up: displays the map always facing the direction which the vehicle is traveling. The vehicle icon is displayed in the lower center position of the map.

Noice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.

 "North Up"

 "Heading Up"

Viewing GPS signal state

The state of GPS signal reception is displayed as shown below.

- GPS (active):GPS reception is satisfactory.
- GPS (inactive):
 GPS reception is unsatisfactory.
 [System information and update], page
 3-51.

1 INFORMATION

• GPS (Global Position System): GPS is a system developed and operated by the United States which determines the current location of the user (longitude, latitude, etc.) by generally using 4 or more satellites. This system is used with related GPS information, various sensors, road map data, and other navigation related information.

- GPS information may not operate under the following conditions.
 - -When buildings, tunnels, or other obstructions block satellite signals.
 - When materials are placed above the GPS antenna and block satellite signals.
 - -When the satellite does not transmit signals (signal transmission is controlled by the satellite control center in the United States and may not transmit when under repair, modification, etc).
 - When a digital cellular phone (1.5GHz) is placed near the GPS antenna.
- This system uses GPS information, various sensors, road map data, and other related information to display the current position.
 Errors may occur if the satellite is transmitting inaccurate signals or if which can only two or less satellite signals can be received.

Errors which occur in such conditions cannot be corrected.



Changing the map scale

Press the or or button. The map scale will be increased or decreased by one level.

1 INFORMATION

Each time the or button is pressed, the scale bar will be displayed.

The scale can be changed by directly pressing the scale level on the scale bar.

The green color on the scale bar indicates the current scale level while the orange color indicates the selected scale level.

- Press the or button for over 0.8 second. The scale will continuously change.
- If the scale range limit is reached, the or button will be disabled.
- The map scale range is between 1 and 14: 10,240,000 ~ 1:5,000.







| _ | _ | | | | |
|-------|-----------------|--------|--|--|--|
| Level | Actual distance | | | | |
| | mi / ft | km/m | | | |
| 1 | 150 ft | 50 m | | | |
| 2 | 300 ft | 100 m | | | |
| 3 | 700 ft | 200 m | | | |
| 4 | 0.25 mi | 400 m | | | |
| 5 | 0.5 mi | 800 m | | | |
| 6 | 1 mi | 1.6 km | | | |
| 7 | 2 mi | 3.2 km | | | |
| 8 | 4 mi | 6.4 km | | | |
| 9 | 8 mi | 12 km | | | |
| 10 | 16 mi | 25 km | | | |
| 11 | 32 mi | 50 km | | | |
| 12 | 64 mi | 100 km | | | |
| 13 | 130 mi | 200 km | | | |
| 14 | 250 mi | 400 km | | | |

Noice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.
 - "Zoom In"
 - "Zoom Out"
 - "Zoom Maximum"
 - "Zoom Minimum"
 - "Zoom level <1 to 14>"
 - "Zoom <actual distance>"
 - " (ex. Zoom 700ft)"

Displaying / Hiding POI icons on the map

■ Displaying/Hiding Q.POI icons

1 Press the POI ▼ button.

Related menu buttons will be displayed at the bottom of the screen.

1 INFORMATION

The Q.POI icons are set to 🔜 - Gas Station,

- 📭 Parking, 🛌 Hotel, 💩 Golf Course,
- 👸 Bank, 🦲 Fast Food (6 icons) by default.

This setting can be changed in SETUP.

[Setting Q.POI icons], page 3-42.



② Press the icon buttons to display or hide.

To turn off all POI icons displayed on the map, press the ALL OFF button.

INFORMATION

- The current displayed POI icons are highlighted while the icons not being displayed are shown as normal buttons.
- If there are no POI icons being displayed, the ALL OFF button will be disabled.
- POI icons are displayed when the scale is under 0.5 mi (800m).

■ Displaying / Hiding icons other than Q.POI icons

① Press the POI ▼ button.

Related menu buttons will be displayed at the bottom of the screen.

2) Press the Others button.

1 INFORMATION

Q.POI stands for Quick POI and refers to the function which turns POI icon display on or off on the map.

(a) by category list



Press the desired main category button.



(4) Select the desired sub category menu to display or hide (Multiple selections are possible).

Press the selected menu again to cancel the selection.

(5) If the Show Icon(s) button is pressed, the selected menus will be displayed or hidden on the map screen.

Noice Command

- 1. Press the key on the steering wheel remote controller.
- After the beep sound, say a command.
 "Show <POI name>" (ex. Show ATM)
 "Hide <POI name>" (ex. Hide ATM)
 "Hide All"

Making a call to POI

After searching a POI, the POI phone number information can be used to make a call to the POI facility.

① Use the various search methods, such as the map scroll function, Q.POI search function, and destination search function to search for a POI.



2) Press the **L** button.



③ Bluetooth is used to make a call to the POI facility.



4 Once the call is ended, the map is restored to the current vehicle location.

INFORMATION

- Making a call is not possible if there is no telephone information for a POI or if there is no mobile phone connected through Bluetooth.
- For more information of mobile phone authentication through Bluetooth or detailed information on conducting search, refer to [2] [Pairing and connecting a Bluetooth phone], page 5-4.

Scrolling map

Press the map area on the map screen.

The selected point will be centered on the screen and the scroll mark will be displayed. Information about the marked point and straight line distance from the current position will be displayed at the top of the screen.



1 INFORMATION

If a map area on the map screen is pressed, the map will continuously scroll in the corresponding direction until the pressing is released.

Setting a destination

Destination menu screen and functions



Press the DEST key on the control panel to display the destination menu screen.



- Address: Sets the destination through address search.
 - [Searching an Address], page 3-13.
- Previous Dest : Sets the destination through the previous destination list.
 - [Searching a Previous Destination], page 3-17.
- Intersection : Sets the destination through intersection search.
 - [Searching an Intersection], page 3-17.
- © POI Search: Sets the destination through POI Category search.
 - [Searching a POI], page 3-20.
- Address Book : Sets the destination through address book search.
 - [Searching from Address book], page 3-24.

- Emergency: Sets the destination through emergency facilities search.
 [Searching for Emergency facilities], page 3-25.
- O HOME : Sets the stored HOME as the destination.
 - [Searching your Home], page 3-25.
- Favorite place 1 ~ 5:
 Sets the destination with one of the stored favorite places.
 - [Searching favorite places], page 3-26.

Searching a Destination

■ Searching an Address

There are 2 ways to set the destination through address search-(a) by street, (b) by city.

- 1 Press the DEST key.
- 2 Press the Address button.



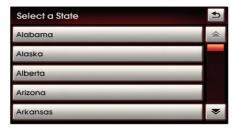
Press the State button to change the state.



(4) Input the State name and press the List button.

If the number of matches with the input is less than 4 results, then the state list screen will be displayed automatically.

If the number of matches is only one result, then the state will automatically be changed without having to manually select the state.



Select the desired state from the list to change the state.

(a) by street



© Press the Street button.

| Input a house n | umber | in QC | | 5 |
|-----------------|-------|-------|---|--------|
| _ | | | | |
| N | 1 | 2 | 3 | Delete |
| | 4 | 5 | 6 | Space |
| W 4 E | 7 | 8 | 9 | |
| S | - | 0 | | Skip |

Input the House number and Press the Done button to complete.

If the House number is not recognized press the Skip button.

In this case, the range of house numbers will be displayed during the last step.



Solution
List button.

If the number of matches with the input is less than 4 results, then the street list screen will be displayed automatically.



If the desired street from the list is selected, the corresponding position will be displayed on the map.

1 INFORMATION

If more than 30 cities exist with the selected street, then the city input screen will be displayed. If less than 30 cities exist, then the city selection screen will be displayed.



Unput the city name and press the List button to complete.

If the number of matches with the input is less than 4 results, then the list screen will be displayed automatically.



🖺 Select the desired city from the list.



This screen will be displayed if the House number had not been inputted during step and more than 2 house numbers ranges exist.

Select the desired House number range.



This screen will be displayed if the House number had not been inputted during step and only one house numbers range exists.

Done button to complete.

The corresponding position will be displayed on the map.

(b) by city



5) Press the City button.



Input the city name and press and press the List button.

If the number of matches with the input is less than 4 results, then the city list screen will be displayed automatically.



Z Select the desired city from the list.



Some button to complete

If the House number is not recognized press the Skip button.

In this case, the range of house numbers will be displayed during the last step.



②Input the Street name and press the List button to complete.

If the number of matches with the input is less than 4 results, then the street list screen will be displayed automatically.



Select the desired street from the list and the corresponding position will be displayed on the map.



11 This screen will be displayed if the House number had not been inputted during step (a) and more than 2 House number ranges exist.

 ${\bf Select\ the\ desired\ House\ number\ range.}$



This screen will be displayed if the House number had not been inputted during step (2) and only one House number range exists.

Select the house number range and Press the **Done** button to complete.

The corresponding position will be displayed on the map.

Noice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.
 "Find address"
 - [Find address], page 4-19.

■ Searching a Previous Destination ■ ■ Searching an Intersection

- 1 Press the DEST key.
- 2) Press the Previous Dest button.



3 Select the desired previous destination. The corresponding position will be displayed on the map.

Noice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command. "Previous destination"
 - [Previous destination], page 4-24.
 - "Previous start point"
 - [Previous start point], page 4-25.

There are two ways to set the destination hrough intersection search-(a) by street, (b) by city.

- 1) Press the DEST key.
- 2) Press the Intersection button.

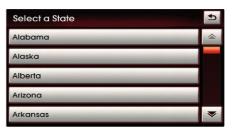


(3) Press the State button to change the state.



Input the state name and press the List button. If the number of matches with the input is less than 4 results, then the state list screen will be displayed automatically.

If the number of matches is only one result, then the state will automatically be changed without having to manually select the state.



Select the desired state from the list to change the state.



© Press the Street button.



Input the name of the 1st street and press the List button.

If the number of matches with the input is less than 4 results, then the street list screen will be displayed automatically.



Select the desired 1st street from the list.



②Input the name of the 2nd street and press the List button.

If the number of matches with the input is less than 4 results, then the street list screen will be displayed automatically.



Select the desired 2nd street menu from the list. The corresponding position will be displayed on the map.



If the selected 2nd street is within more than 2 cities, then the city list screen will be displayed.

Select the desired city menu from the list. The corresponding position will be displayed on the map.



6 Press the City button.



Zilnput the city name and press the List button.

If the number of matches with the input is less than 4 results, then the city list screen will be displayed automatically.



Select the desired city name.



Input the name of the 1st street and press the List button.

If the number of matches with the input is less than 4 results, then the street list screen will be displayed automatically.



Select the desired 1st street menu from the list.



Input the name of the 2nd street and press the List button.

If the number of matches with the input is less than 4 results, then the street list screen will be displayed automatically.



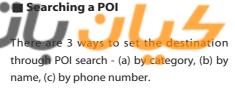
Select the desired 2nd street menu from the list.

The corresponding position will be displayed on the map.



If the selected 2nd street is within more than 2 cities, then the city list screen will be displayed.

Select the desired city menu from the list. The corresponding position will be displayed on the map.



1 Press the DEST key.

2 Press the POI Search button.

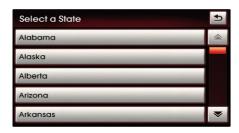


3) Press the State button.



②Input the state name and press the

List button. If the number of matches
with the input is less than 4 results, then
the state list screen will be displayed
automatically. If there is only one
matching result, then the state will
automatically be changed without having
to manually select the state.



Select the desired state from the list to change the state.

(a) By category

Searches for facilities nearby the current position or from the city center.



6 Press the Category button.



7) Press the Near current position button to search for facilities nearby the current position, or press the Near city center button to search for facilities in the near city center.

(a-1) Near current position

Searches for facilities within a 30 mi (45km) radius of the current position.



2 Press the desired main category menu.

🕦 Voice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.

 "Find nearest POI"
- [Find nearest POI], page 4-20.



Press the desired sub category menu.



Select the desired menu button.

The corresponding position will be displayed on the map.

(a-2) Near city center

Searches for facilities from the city center.



Input the city name and press the List button.

If the number of matches with the input is less than 4 results, then the city list screen will be displayed automatically.



Press the desired city menu.



Press the desired main category.



Press the desired sub category.



Select the desired menu button.

The corresponding position will be displayed on the map.



The distance on each POI item button refers to the distance from the city center.





6) Press the Name button.



Input the name of the POI and press the List button.

If the number of matches with the input is less than 4 results, then the facilities list screen will be displayed automatically.



Select the desired POI menu. The corresponding position will be displayed on the map.

N INFORMATION

When necessary, the search conditions for the city and category can be changed by pressing the Advanced button.





- Changing Category
- 1 Press the Category button.
- $\ensuremath{ ext{2}}$ Select the desired main category menu.
- 3 Select the desired sub category menu.

(c) By phone number



6) Press the Phone # button.



Input the phone number and Press the Done button to complete.

The corresponding position will be displayed on the map.

Noice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.
 "Destination POI by Phone Number"
 [Q [Destination POI by phone number], page 4-22.





Select the desired address book (user) menu.



This system provides 5 address books. Each addresses book can hold up to 200 entries.



(4) Select the desired address name from the list.

The corresponding position will be displayed on the map.

[Registering new address in address book], page 3-43.

Noice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.

 "Destination by address book"
 - [Destination by address book], page 4-24.

■ Searching for Emergency facilities ● ●

1 Press the DEST key.

2) Press the Emergency button.



3 Select the desired facility category.



4 Select the desired facility.

The corresponding position will be displayed on the map.

ઓ Voice Command

23.

Press the key on the steering wheel

2. After the beep sound, say a command."Find emergency <Category>"[Find emergency <Category>], page 4-



2) Press the HOME button.

The Home position will be displayed on the map.

1 INFORMATION

If the Home address is not registered, then the HOME button will be displayed.

[Registering home address], page 3-48.

🕦 Voice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command. "Go home"
 - (Go home), page 4-25.

■ Searching favorite places

1) Press the DEST key.

②Select the desired button from 1 ~ 5.

The corresponding position will be displayed on the map.

1 INFORMATION

If the address of the Favorite place is not registered, then the 1 ~ 5 buttons without registered addresses will be disabled. 2 [Registering favorite place], page 3-49.

🕦 Voice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.
 "Destination by memory point <1 to 5>"
 [Oestination by memory point <1 to 5>], page 4-25.

Searching from MAP

Position the scroll mark at the destination by scrolling the map on the map screen.

■ Searching POI by local POI list

- Press the POI ▼ button on the map screen.
- 2 Press the Others button.



3) Press the Local POI lists button.



4 Select the desired POI menu.

The corresponding position will be displayed on the map.

🕦)) Voice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.

 "Find nearest <POI name>"
 - [Find nearest <POI name>], page 4-21.

Operating after searching a destination



■ Changing destination position :

Changes the position of the destination by scrolling the map.

[Scrolling map], page 3-11.

■ Setting as Destination / waypoint :

Sets the position as the destination or waypoint.

ነ Voice Command

- Press the key on the steering wheel
- "Start guidance"
 (Sets the position of the scroll mark as the destination and begins route guidance.)

2. After the beep sound, say a command.

Adding to address book:

Saves the position in the address book. [Registering new address in address book], page 3-43.

Noice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.

 "Store Marked Location to <text tag>"

Operating after setting a destination



y Voice Command

- Press the key on the steering wheel remote controller.
- After the beep sound, say a command.

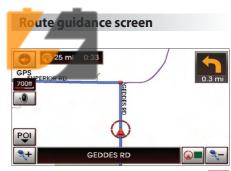
 "Time to destination"

 "Distance to destination"

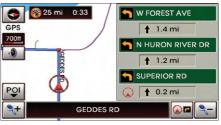
Starting Route Guidance

Press the Start Guidance button. Route Guidance will start.

- Route simulation
- If the Start Guidance button is pressed and held for over 0.8 second, then the route simulation will start.
- If the MAP key on the control panel is pressed during route simulation, then route simulation will be terminated.



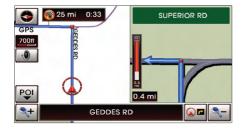
•Symbol guidance mode: If the button is pressed, then the following route guidance screen will be displayed.



• Turn-List mode: If the limit button is pressed, then the following route guidance screen will be displayed.



• Highway mode: If the lower button is pressed, then the following route guidance screen will be displayed.



• Intersection zoom mode: This route guidance screen is automatically displayed during guidance at an intersection.

Once guidance at the intersection is complete, the screen will automatically disappear and the previous guidance screen will be restored.



 Highway junction mode: This route guidance screen is automatically displayed during guidance at highway junctions.

Once guidance at a highway junction is complete, this screen will automatically disappear and the previous guidance screen will be restored.



②Other routes can be selected by pressing the or buttons.

Route guidance

Route menu screen and functions



Press the ROUTE key on the control panel. The ROUTE menu screen will be displayed.



Cancel Route: Deletes destination,
waypoints and terminates route

- (a) [Finishing route guidance], page 3-30.
- Route Overview: Displays the entire route and route detailed.
 - [Route overview], page 3-31.
- Route Option: The route option can be changed.
 - (Changing Route option), page 3-32.
- d Edit Waypoint: Waypoints can be added/deleted and the order can be changed.
 - [Editing waypoints], page 3-32.
- Oetour: Searches detour routes.
 - [Setting detour distance], page 3-35.
- 4 Avoid Streets: Searches routes which avoid the selected streets.
 - [Setting avoid streets on route], page3-35.

Finishing route guidance (Delete Destination)

- 1) Press the ROUTE key.
- 2) Press the Cancel Route button.



3) Press the Yes button.

The destination and waypoints are deleted and the route guidance is terminated.

[Finishing route guidance], page 3-30.

Noice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command."Cancel route"(Terminates route guidance and deletes the set destination and waypoints.)

Route overview (View Entire Route)

2 Press the Route Overview button.



3) Press the Turn by turn button.



If the Return to Guidance button is pressed, route guidance screen is displayed.



4 The detailed route information can be viewed.

Changing Route option

1) Press the ROUTE key.

2 Press the Route Option button.



②Press the button for the desired route guidance method.

Guidance will be restarted after recalculating the route with the selected guidance method.

🖢 🔌 Voice Command

Press the key on the steering wheel remote controller.

- 2. After the beep sound, say a command.
 - "Replan recommended route"
 - "Replan shortest route"
 - "Replan minimize freeway route"
 - "Replan minimize toll road route"

Editing waypoints

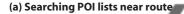
Adding waypoints

There are 2 ways to add waypoints - (a) searching for POI nearest to the route, (b) using advanced search.

- 1 Press the ROUTE key.
- 2) Press the Edit Waypoint button.



3) Press the Press to add new waypoint button.





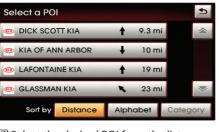
4) Press the Near POI lists on Route button.



5 Select the desired category.



© Select the desired sub category from list.



☑ Select the desired POI from the list.

The corresponding position will be displayed on the map.



8 Press the Add as Waypoint button.



Press the Done button to complete.
Guidance will restart after recalculating the route.

(b) Using advanced Search

The method for searching waypoints through the Advanced(more) button is the same method as searching destination.

[Searching a Destination], page 3-13.

■ Deleting waypoints

- 1) Press the ROUTE key.
- 2 Press the Edit waypoint button.



Select the waypoint and press the Delete button.



4 Press the Yes button.



- 5 After deleting, press the Done button to complete.
 - Guidance will be restart after recalculating.



2) Press the Edit waypoint button.

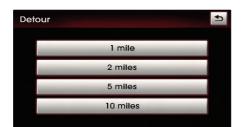


- ③ Select the desired waypoint and use the MOVE ▲, MOVE ▼ buttons to change the order.
- ④Once re-ordering is complete, press the Done button to complete.
 - Guidance will restart after recalculating the route.

Setting detour distance

1 Press the ROUTE key.

2) Press the Defour button.



③ Select the desired detour range.
Guidance will restart after recalculating the detour route.

Noice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.

"Detour <1 or 2 or 5 or 10> miles"

"Detour <1 or 2 or 5 or 10> kilometers"

Setting avoid streets on route







③ Select the desired streets to avoid(■ avoid, ■ allow) and press the Done button to complete.

Guidance will restarted after recalculating.

Setup and Information

Setup menu screen and functions



Press the SETUP key on the control panel to display the setup menu screen.



Main button: Changes to the input keyboard type, voice command feedback ON/OFF settings and system initialization can be made. 🕽 🎱 [Main setting], pag驾-36 .

Traffic Setup button: Sets whether to display traffic information on map, whether to provide upcoming traffic information voice guidance, and whether to display the detour route popup showing upcoming traffic information.

- Navigation button : Navigation related settings can be set.
 - [Navigation setting], page 3-38.
- My Places button: The Address book, Home address, Favorite places, Previous destination can be edited.
 - [My places setting], page 3-43.
- System Info button: The system version information can be viewed and system upgrades can be conducted.
 - [System information and update], page 3-51.
- Voice Setup button : Adjusts the Navigation guidance volume.
 - [Voice guidance volume setting], page 3-51.
- Help button: The help contents can be viewed.
 ∏ (Help), page 3-54.

Display button: Adjusts the display setting. [Q [Display setting], page 1-12.

Main setting

- 1 Press the SETUP key.
- 2 Press the Main button.



3 Select the desired changes and press the Done button to complete.

■ Setting keyboard for inputting letter

Press the desired keyboard type button. The selection will be highlighted.

■ Setting voice command feedback ● Initializing system ON/OFF

Press the desired setting button

Initializing system

1 Press the Factory default button.



■ Setting Language

1) Press the Change button.



2 Press the desired language.



3 Press the **Done** button to complete.



2 Press the menu desired for initialization.



3) Press the Yes button.



WPT



***DEST



Done button to complete.

Distance and time to

Select the desired distance unit.

Setting arrival time and distance display

Select the desired setting button.

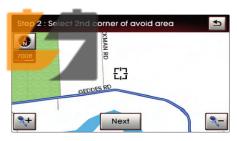


Delete all avoid area

2) Press the Add new avoid area button.

4

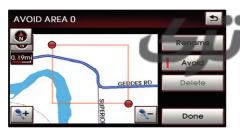
③ Set the start position of the avoid area and press the NEXT button.



4 Set the end position of the avoid area and press the NEXT button.



5) Press the **Done** button to complete.



If the Avoid area needs to be renamed, press the Rename button.



Rename the Avoid area and Press the Done button to complete.



- Press the Done button to complete the setting.



1) Press the Avoid Area butto



2 Press the Edit avoid area button.



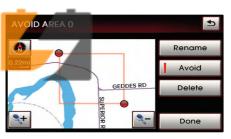
③ Select the Avoid area button to edit.



4 If the Avoid area needs to be renamed, press the Rename button.

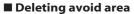


5 Rename the Avoid area and press the **Done** button to complete.



⑤ Each time the Avoid button is pressed, the function will switch between avoid(☐) or allow(☐).

Press the Done button once editing is complete.



1) Press the Avoid area button



2) Press the Edit avoid area button.



3 Select the Avoid area button to delete.



5) Press the Yes button.





2) Press the Delete all avoid area button.



3) Press the Yes button.



1) Press the Edit Q.POI butto



2) Select the desired menu.



3 Select the desired category.



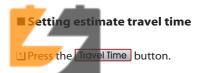
(4) Select the desired sub category.



5) Press the **Done** button to complete.



Q.POI stands for Quick POI and refers to the function which turns POI icon display on or off on the map.





②Press the 〈 or 〉 button on the Residential, Main street, and Freeway controls to adjust the speed.

Press the Default button to set the speeds to the default settings.

② Press the Done button to complete the setting.

My places setting

■ Registering new address in address book

There are 3 ways to register a new address in the address book - (a) by DEST menu, (b) by registering address in address book, (c) from map scroll.

(a) by DEST menu

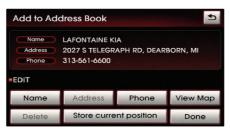
- 1 Press the DEST key.
- Search through the desired method. The search process is the same as the method for destination search.
 - [Searching a destination], page 3-13.



3) Press the Add to Address Book button.



4 Press the desired address book (user) button.



- Input the name and telephone information and press the Done button to complete.
 - **Q** [Editing an address of address book], page 3-45.

(b) by registering in the address book

1) Press the SETUP key.

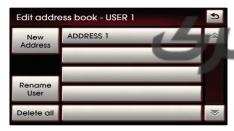
2) Press the My Places button.



3) Press the Address book button.



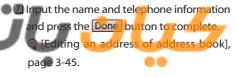
4) Press the desired address book (user) button.



5) Press the New Address button.



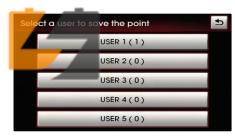
- © Press the Address button to search the address.
 - [Searching an address], page 3-13.



- (c) from map scroll
- 1 In the map screen, scroll the map to the desired position.



2) Press the Add to Address Book button.



- Press the desired address book (user) button.
- Input the name and telephone information and press the Done button to complete.
 - [Editing an address of address book], page 3-45.

1 INFORMATION

Press the Store current position button to input the address of the current position.

■ Editing an address of address book

- 1 Press the SETUP key.
- 2 Press the My places button.



3 Press the Address book button.



Select the desired address book (user) button.



Select the desired address to edit.



© Press the Name button to input the address name.



②Input the address name and press the Done button to complete.



 Press the Address button to search the address. The process is the same as the method for searching an address.

[Searching an Address], page 3-13.



Press the **Store current position** button to input the address of the current position.





Input the phone number and press the Done button to complete.



11) Press the Done button to complete.





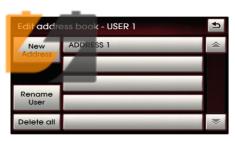
2 Press the My places button.



3) Press the Address book button.



4 Select the desired address book (user) button.



5) Select the desired address button to delete.



6) Press the Delete button.



Press the Yes button.





3) Press the Address book button.



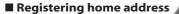
4 Press the desired address book (user) button.



5) Press the Delete all button.



6) Press the Yes button.

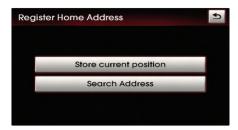


1 Press the SETUP key.

2 Press the My places button.



3) Press the Home Address button.



4) Press the Search Address button.



Press the Store current position button to egister the current position as Home.

Search the address.

The process is the same method as searching an address.

[Searching an Address], page 3-13.



6) Press the Done button to complete.



2 Press the My places button.



3 Press the Home Address button.



4) Press the Delete button.



5 Press the Yes button.



2) Press the My places button.



3) Press the Favorite Places button.



Press the number of the Favorite Place to register.



5) Press the Search address button.

1 INFORMATION

Press the Store current position button to register the current position as a Favorite place.

6 Search the address.

The process is the same as the method for searching an address.

[Searching an Address], page 3-13.



7) Press the Done button to complete.



2) Press the My places button.



3 Press the Favorite Places button.



4) Select the desired favorite place button to delete.



5) Press the Delete button.



6) Press the Yes button.

System information and update

1) Press the SETUP key.

2) Press the System Info button.





2) Press the Voice Setup button.



Voice guidance volume control

• Set the desired volume level by using the or buttons and press the Listen button to verify the volume level.

Noice Command

- 1. Press the key on the steering wheel remote controller.
- 2. After the beep sound, say a command.
 "Voice Guidance Louder"
 - "Voice Guidance Softer"
- Press the MUTE button when voice guidance is unnecessary.

Voice guidance can be turned back on by pressing the or buttons or pressing the MUTE button.

Noice Command

- 1. Press the key on the steering Wheel remote controller.
- 2. After the beep sound, say a command.

 "Voice Guidance On"
 - "Voice Guidance Off"

■ Adaptive volume control ON/OFF

• Press the desired setting buttor



Adaptive Volume Control

If the speed of the vehicle is over approximately 60 mi/h (100km/h), the volume level can be increased one level higher than the current level. If the speed of the vehicle falls under 60 mi/h (100km/h), the volume level will return to its original level.



- 2 Press the Traffic Setup button.
- 3 Select the desired changes and press the Done button.



1 INFORMATION

- Display Traffic and Flow data on Map: select whether to display traffic information on the map.
- Voice Prompt for traffic and flow warning:
 Decides whether to provide voice guidance in front of Traffic Information. (On route - 3mile)
- Display pop-up message: Decides whether to display pop up in front of Traffic Information. (On route - 3mile)

Traffic Information

(a) Viewing Traffic Information



1 When the Traffic option is active, press the button on the Map screen.

1 Traffic Flow INFORMATION

- Normal, Free Flowing (46 mph ~)
- Moderate Congestion (26 ~ 45 mph)
- Heavy Traffic, Stop and Go (0 ~ 25 mph)

1 INFORMATION

- Traffic information will be shown on the map up until the scale is ~4mile.
- Displays the traffic information around vehicle for up to a radius of 50 miles.
 (Information exceeding 50 miles will not be displayed)
- The above list can be sorted by either Distance (Default) or Category.



2 Select the desired List button.



② The user can check points of accidents and traffic details.

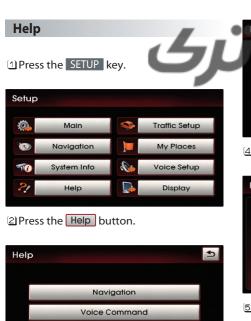
(b) Changing Traffic Category



1) Press the Category Select button at No. 2.



2 After selecting the desired menu among the six menus, press the Done button to save. Once returning to the previous List screen, the corresponding Category list will be shown and maintained until Category information is changed.

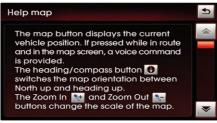


3 Press the Navigation button.

Bluetooth



4 Press the desired Help menu button.



5 The full content of the help section can be viewed by using the top-down scroll buttons.





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Operating voice command

Condition for voice command system

Most of the functions within the AV and Navigation system can be operated by voice. Please follow the following instructions for optimal voice recognition performance.

- Close all windows and the sunroof. The performance of the voice recognition can be improved if the environment of the car interior is quiet.
- Press the voice recognition button and say the desired voice command after the sound of the beep.
- The microphone is positioned above the driver so that voice commands can be said while maintaining a proper posture.
- Pronounce the voice commands naturally and clearly as if in a normal conversation.



1 Press the **button** on the steering wheel remote controller.

A voice command window will be displayed on the lower side of the screen followed by a "Command please" system voice comment.

1 INFORMATION

The System voice comment "Command Please" will not be provided when the Voice prompt is turned OFF.



②Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say the desired voice command (ex: previous destination)

- [Voice command list], page 4-6.
- [Searching a destination by voice command], page 4-19.

If the exact command is not known, use the "Help" command to view the commands list in detail.

1 INFORMATION

Press the shortly to input a voice command from among the system voice comments.

The system voice instruction comment will immediately terminate.

When the sicon changes into the icon with a beep sound, input the desired voice command.



☑ The inputted command is fed back to the screen and voice system.

If the command was not recognized properly, say "Back".

1 INFORMATION

- The commands which can currently be inputted are displayed on the screen in yellow.
- To terminate the voice recognition system, either say "cancel" or press the (1)) for over 0.8 second.
- Be aware that during the operation of the voice recognition system, pressing the hard

keys or the screen will terminate the voice recognition system.

Voice command Help

① Press the we button on the Steering wheel remote controller.

A voice command window will be displayed on the lower side of the screen followed by a "Command please" system voice comment.

1 INFORMATION

The System voice comment "Command Please" will not be provided when the Voice prompt is turned OFF.

②Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say "Help".

If the proper Help menu is already known, voice commands, such as "destination help" can be inputted directly.



The "help" command can be used even while voice recognition dialogue is operating.

At such time, help instructions appropriate to the state of the dialogue will be provided.



Say the name of the desired menu.

(ex: "Destination help")



4 Say the desired voice command.

Setting up the voice command system

Setting voice prompt ON/OFF

- Voice prompt ON : All system prompts are provided.
- Voice prompt OFF : Most of the system prompts are not provided.
- ① Press the button on the Steering wheel remote controller.
- ②Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say "Voice setup." The "voice prompt on" or "voice prompt off" can be directly inputted if the current state is already known.



③ Once the icon changes into the icon on the pop-up screen with a beep sound, say "Voice Prompt on".

1 INFORMATION

In the Voice Setup Help screen, the commands possible for input within the current mode are displayed. For example, if the Voice prompt is currently in Off state, then the command Voice prompt ON will be displayed on the screen.



②Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say "Voice setup."

Or the "Speaker adaptation" command can be directly inputted.



②Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say "Speaker adaptation".



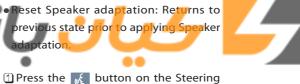
4 Once the \int icon changes into the nicon on the pop-up screen with a beep sound, say "Yes".



5 Listen and repeat the 20 commands (approximate) as instructed by the device.

•Reset Speaker adaptation: Returns to previous state prior to applying Speaker daptation

wheel remote controller.



②Once the 🔊 icon changes into the (a) icon on the pop-up screen with a beep sound, say "Reset Speaker adaptation".

Voice command list

The voice commands for this system are divided into Global commands and Local commands.

- •Global command (●) : Commands which operate in all operating modes.
- Local command (()): Commands which operate only when the corresponding mode is operating or when the mode screen to the corresponding mode is displayed.

| CO | Command list of Help | | |
|----|----------------------|---|--|
| Ц | Command | Operation | |
| | Command | Operation | |
| | Help | Displays the main Help screen. | |
| • | Destination Help | Displays the Destination related command list. | |
| | Map Help | Displays the Map related command list. | |
| • | Radio Help | Displays the FM/AM radio related command list. | |
| • | SIRIUS Help | Displays the SIRIUS radio related command list. | |
| • | Disc Help | Displays the DISC mode related command list for the disc inserted in the CDP. | |
| • | iPod Help | Displays the iPod related command list. | |
| • | USB Help | Displays the USB related command list. | |
| • | Phone Help | Displays the Phone Help screen. | |
| • | Voice setup Help | Displays the Voice prompt settings and speaker-adaptive commands on the screen. | |

Command list of Audio system ■ FM/AM Radio

| | Command | Operation |
|------------|------------------------------|---|
| • | Radio | Plays the most recent frequency for the most recently operated Band. |
| • | (Radio) AM | Plays the most recent frequency for the corresponding Band. |
| • | (Radio) FM | Plays the most recent frequency for the corresponding Band. In the case of FM, the most recent frequency within the most recently played FM1 or FM2 band is played. |
| • | FM <1 or 2> | Plays the most recent frequency for the corresponding Band. |
| • | AM frequency <530 to 1710> | Plays the desired AM band frequency. (ex. AM frequency 1310) |
| • | FM frequency <87.5 to 107.9> | Plays the desired FM band frequency.(ex. FM frequency 99.1) |
| • | AM Preset <1 to 6> | Plays the desired AM band preset frequency. |
| • | FM <1 or 2> Preset <1 to 6> | Plays the desired preset frequency of FM1 or FM2 band. |
| \bigcirc | Preset <1 to 6> | Plays the desired preset frequency for the current Band. |
| () | Seek Up | Searches and plays the next frequency of the current band. |
| \bigcirc | Seek Down | Searches and plays the previous frequency of the current band. |
| \bigcirc | Preset Up | Plays the next preset frequency of the current band. |
| \bigcirc | Preset Down | Plays the previous preset frequency of the current. |
| \bigcirc | Scan | Scans all frequencies within the current band. |
| \bigcirc | Preset Scan | Scans the 6 preset frequencies of the current band. |
| () | Auto Preset / Auto Store | Searches all frequencies within the current band and stores the 6 frequencies with the most superior reception as preset buttens. |

| ■ SI | RIUS Radio | |
|------------|--------------------------------------|---|
| | Command | Operation Operation |
| • | SIRIUS | Plays the last channel within the last band from SIRIUS1, SIRIUS2, and SIRIUS3. |
| • | SIRIUS <1 or 2 or 3> | Plays the most recent channel for the corresponding Band. |
| • | SIRIUS Channel <0 to 223> | Plays the desired SIRIUS band channel. |
| • | SIRIUS <1 or 2 or 3> Preset <1 to 6> | Plays the desired preset channel for SIRIUS1 or SIRIUS2 or SIRIUS3 band. |
| \odot | Channel < 0 to 223 > | Plays the desired channel of the current band. |
| \odot | Preset <1 to 6> | Plays the desired preset channel of the current band. |
| \odot | Channel Up | Plays the next channel of the current band. |
| \odot | Channel Down | Plays the previous channel of the current band. |
| \circ | Preset Up | Plays the next preset channel of the current band. |
| \bigcirc | Preset Down | Plays the previous preset channel of the current band. |
| \odot | Scan | Scans all frequencies within the current band. |
| \odot | Preset Scan | Scans the 6 preset frequencies of the current band. |

■ CD

| | Command | Operation |
|---------|---------------------|--|
| • | DISC | Plays the DISC already inserted in the CDP. |
| • | CD | If the DISC inserted in the CDP is either a CD or MP3 DISC, then the CD or MP3 will be played. |
| • | CD track <1 to 665> | If the DISC inserted in the CDP is a CD, then CD Mode will start and plays the desired track. |
| \odot | Track <1 to 665> | Plays the desired track. |
| \odot | Next track | Plays the next track. |
| () | Previous track | Plays the previous track. |
| \odot | Scan | Scans all tracks on the CD. |
| \odot | Repeat track | Repeats the current playing track. |
| \odot | Random | Plays the tracks of the CD in random order. |
| () | Normal play | Turns off the Scan, Repeat, and Random functions. |
| \odot | Pause | Pauses the CD. |
| \odot | Play | The command will only be enabled when the CD is paused. |

| ■ M | Р3 | |
|------------|-----------------|---|
| | Command | Operation |
| • | DISC | Plays the DISC already inserted into the CDP. |
| • | CD | If the DISC inserted in the CDP is either a CD or MP3 DISC, then the CD or MP3 will be played. |
| • | MP3 | If the DISC inserted in the CDP is an MP3 DISC, then the MP3 will be played. |
| \bigcirc | Next file | Plays the next file. |
| \odot | Previous file | Plays the previous file. |
| \bigcirc | Next folder | Plays the first file in the next folder. |
| \odot | Previous folder | Plays the first file in the previous folder. |
| () | Scan | Scans all files within the MP3 DISC. |
| \odot | Folder Scan | Plays all songs in the folder in which the current playing file is located for 10 seconds each. |
| () | Repeat File | Repeats the current playing file. |
| \odot | Repeat Folder | Repeats all tracks within the current playing folder. |
| \bigcirc | Random | Plays all files within the MP3 DISC in random order. |
| | Random Folder | Plays all files within the current playing folder in random order. |
| \odot | Normal play | Turns off the Scan, Repeat, and Random functions. |
| \odot | Pause | Pauses the CD. |
| \bigcirc | Play | The command will only be enabled when the CD is paused. |

■ USB

| ■ Us | SB | |
|------------|-----------------|---|
| | Command | Operation |
| • | USB | If the USB has been connected to the device, plays the MP3 files within the USB. |
| \bigcirc | Next file | Plays the next file. |
| \odot | Previous file | Plays the previous file. |
| \bigcirc | Next folder | Plays the first chapter of the next folder. |
| \odot | Previous folder | Plays the first chapter of the previous folder. |
| \odot | Scan | Scans all files within the USB. |
| () | Folder Scan | Plays all songs in the folder in which the current playing file is located for 10 seconds each. |
| \odot | Repeat File | Repeats the current playing file. |
| \odot | Repeat Folder | Repeats all songs within the current playing folder. |
| \odot | Random | Plays all files within the MP3 DISC in random order. |
| \bigcirc | Random Folder | Plays all files within the current playing folder in random order. |
| \odot | Normal play | Turns off the Scan, Repeat, and Random functions. |
| () | Pause | Pauses the CD. |
| () | Play | The command will only be enabled when the CD is paused. |

| ■iP | od | 7 _ ** # |
|------------|---------------|---|
| | Command | Operation |
| • | iPod | Plays the songs within the iPod if the iPod has been connected to the device. |
| \bigcirc | Next song | Plays the next song. |
| \odot | Previous song | Plays the previous song. |
| \bigcirc | Repeat song | Repeats the current playing song. |
| \odot | Random | Plays all songs within the iPod in random order. |
| \bigcirc | Random Album | Plays all songs within the current playing album in random order. |
| \odot | Normal play | Turns off the Repeat and Random functions. |
| () | Pause | Pauses the CD. |
| \odot | Play | The command will only be enabled when the CD is paused. |

Others

| | Command | Operation |
|---|-----------|---|
| • | Line in | Plays the unit connected with the AUX terminal. |
| | Audio on | Turns on the Audio. |
| • | Audio off | Turns off the Audio. |

| Cor | Command list of Phone | | |
|-----|-----------------------|---|--|
| | Command | Operation | |
| • | Call Name | Makes the call to the name. | |
| • | Dial Number | Makes the call to the number. | |
| • | Redial | The recently called number is redialed. | |
| | Recent Calls | The user can selest a number from the outgoing, incoming, and missed calls. | |

Command list of navigation system

Navigation commands will operate only agreeing to the terms and conditions for the Navigation system.

■ Мар

| | Command | Operation |
|---|--------------------------------|---|
| • | Map Current location | Displays the current position of the vehicle. |
| • | Zoom In | Decreases the map zoom by one level. |
| • | Zoom Out | Increases the map zoom by one level. |
| | Zoom minimum | Displays the map screen in the maximum zoom level. |
| • | Zoom maximum | Displays the map screen in the minimum zoom level. |
| • | Zoom level <1 to 14> | Displays the map in the zoom level selected from the 14 levels. |
| • | Zoom <scale factor=""></scale> | Displays the map in the corresponding zoom. |

| | Command | Operation Operation |
|------------|--|---|
| | 150 feet / 50 meters 300 feet /100 meters 700 feet / 200 meters 0.25 miles / 400 meters 0.5 miles / 800 meters 1 mile / 1.6 kilometers 2 miles / 3.2 kilometers 4 miles / 6.4 kilometers 8 miles / 12 kilometers 16 miles / 25 kilometers 32 miles / 50 kilometers 64 miles / 100 kilometers 130 miles / 200 kilometers 250 miles / 400 kilometers (ex.Zoom 0.25 miles, zoom 400 meters) | |
| \odot | North up | Displays the map in North Up mode. |
| \odot | Heading up | Displays the map in Heading Up mode. |
| \bigcirc | Show <poi name=""> (ex. Show ATM)</poi> | Displays the selected POI categories. Q [POI Category list], page 4-18. |
| \odot | Hide <poi name=""> (ex. Hide ATM)</poi> | Hides the selected POI categories. 🍳 [POI Category list], page 4-18. |
| \bigcirc | Hide all | Hides all POI categories. |
| () | Daylight mode | Converts the map display into daylight mode. |
| () | Night mode | Converts the map display into night mode. |
| \odot | Auto mode | Converts the map display is between daylight/night modes automatically. |

■ Destination

| ■ Destination | |
|--|--|
| Command | Operation |
| Find address | Sets the destination through address search for route guidance. |
| Find nearest POI | Sets a POI near the current position as the destination for route guidance through POI category search. |
| ● Find nearest <poi name=""></poi> | Sets a POI near the current position as the destination by directly inputting the POI name for route guidance. Q [POI Category list], page 4-18. |
| Destination POI by phone number | Sets the destination by searching the phone number of the facility. |
| Find Emergency <category> (ex. Find Emergency Hospital)</category> | Searches for an emergency facility which is nearby the current position and sets it as the destination for route guidance. Emergency facilities are police stations, hospitals, and dealerships. |
| Destination by address book | Sets one of the list of previously registered addresses in the address book for the user as the destination. |
| Previous destination | Sets one of the previous destination as the current destination. |
| Previous start point | Sets the previous start point as the current destination. |
| ● Go home | Sets the previously registered home address as the destination for route guidance. |
| Destination by memory point <1 to 5> | Sets a previously registered memory point as the destination for route guidance. |

| ■ Re | oute | |
|------------|---------------------------------------|---|
| | Command | Operation |
| • | Cancel route | Deletes the designated destination and terminates the route guidance. |
| • | Repeat voice guidance | Repeats the route guidance. |
| • | Detour <1 or 2 or 5 or 10> miles | Searches detour routes within a <1 2 5 10> mile radius. |
| • | Detour <1 or 2 or 5 or 10> kilometers | Searches detour routes within a <1 2 5 10> kilometer radius. |
| • | Replan recommended route | Recalculates the route with the recommended route. |
| • | Replan shortest route | Recalculates the route with the shortest route. |
| • | Replan minimize freeway route | Recalculates the route with the minimize freeway route. |
| • | Replan minimize toll road route | Recalculates the route with the minimize toll route. |
| • | Distance to destination | Reports the remaining distance until destination by voice. |
| • | Time to destination | Reports the remaining time until destination by voice. |
| () | View route | If the destination has been set, displays the whole route screen until the destination. |
| \bigcirc | Start guidance | Sets the scroll mark displayed on the map as the destination and starts route guidance. |

| ■ O | thers | il , •, , 4 |
|-----|---|---|
| | Command | Operation |
| • | Voice guidance on | Turns the Voice Guidance On. |
| • | Voice guidance off | Turns the Voice Guidance Off. |
| • | Voice guidance louder | Increases the Voice Guidance volume by 1 level. |
| • | Voice guidance softer | Decrease the Voice Guidance volume by 1 level. |
| • | Store marked location to <text tag=""> (ex. Store marked location to user 1)</text> | Registers the selected location into the selected Address book. |

| All Restaurants | Car Wash | Home Specialty Store | Court House |
|----------------------------|-----------------------|-----------------------|------------------------|
| Fast Food restaurant | Motorcycle Dealership | Clothing shop | Fire Department |
| American restaurant | All Travel | Shoe Store | Convention Center |
| French restaurant | Airport | Pharmacy | City Hall |
| Italian restaurant | Hotel | All Recreation | Civic Center |
| Continental restaurant | Tourist Information | Amusement Park | School |
| Mexican restaurant | Travel Agent | Museum | Government Offices |
| Japanese restaurantl | Tourist Attraction | Cinema | Waste & Sanitary |
| Chinese restaurant | City Center | Sports Activities | Utilities |
| Korean restaurant | Rental Car Agency | Sports Complex | All Services |
| Vegetarian Food restaurant | Campground | Golf Course | Hospital |
| Seafood restaurant | Ferry Terminal | Winery | Dentist |
| Latin American restaurant | Bus Station | Video & Game Rental | Photography |
| Asian restaurant | Local Transit | Ski Resort | Tax Service |
| African restaurant | Train Station | Recreation Area | Medical Service |
| Coffee Shop | All Shopping | Other Recreation | Attorney |
| Other restaurants | Department Store | All Financial Service | Funeral Director |
| All Automotive | Convenience Store | Bank | Hair & Beauty |
| Gas Station | Shopping Center | ATM | Cleaning & Laundry |
| Parking | Music Store | Check Cashing Service | Social Service |
| Auto service | Grocery Store | Money Transfer | Physician |
| Road Assistance | Bookstore | Business Facility | Communication services |
| KIA Dealership | Electronic Store | All Community | Tailor & Alteration |
| Automobile Dealership | Hardware Store | Police Station | Mover services |
| Auto Parts | Gifts shop | Post Office | |
| Rest Area | Sporting Goods store | Library | |

Searching a destination by voice Find Address command

■ Find address

Sets the destination through address search for route guidance.

- 1 Press the sutton on the Steering wheel remote controller.
- ② Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say "Find address".



3 Say "Change state" to change the state.



4 Say the state name.



Say the city name.



Say the street name.



☑ Say the House number.

Here, the range which can be inputted will be displayed.

Say "Start guidance" if guidance to the selected position is desired, or say "Show map" to verify the location of the selected position on the map.

1 INFORMATION

Spell recognition



- It is possible to search the state, city, street names through the text line inputted by the user.
- To enter spell search mode, say the "Spell 000" command as displayed on the screen.
- Text lines can be inputted continuously.



Pick-List(n-best list)

- If there are more than one voice result, then a pick-list which can be selected by the user will be displayed.
- There may be more than one list page. The desired page can be viewed by using commands such as "next page" or "previous page".
- Here, the "Line + number" voice command can be used to select the desired result, such as "Line one". Pressing the desired result is not supported.
- Also, selectable areas will be highlighted in yellow, allowing the user to easily see which results can be selected.



Sets a POI near the current position as the destination for route guidance through POI category search.

- ① Press the button on the Steering wheel remote controller.
- ②Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say "find nearest POI".



3 Select the desired main category.



4 Select the desired sub category.



5) Select the desired POI from the list and say the line number for the corresponding menu. Ex) "Line 1".



Say "Start guidance" if guidance to the selected position is desired, or say "Show map" to verify the location of the selected position on the map.

Find nearest <POI name>

Sets a POI near the current position as the destination by directly inputting the POI name for route guidance.

- ☑ Press the button on the Steering wheel remote controller.
- ②Once the **(N)** icon changes into the icon on the pop-up screen with a beep sound, say "Find nearest Parking".



- Select the desired POI from the list and say the line number for the corresponding menu.
 - e.g) "Line 2".



△ Say "Start guidance" if guidance to the selected position is desired, or say "Show map" to verify the location of the selected position on the map.

Destination POI by phone number

Sets the destination by searching the phone number of the facility.

- ☐ Press the wheel remote controller.
- ② Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say "Destination POI by Phone number".



Input the 10 numbers for the phone number.



Continuous recognition of phone numbers is possible, and the recognized result will be displayed in block units. To correct a block unit, say "correct". To delete the entire result, say "delete". To have the input read back, say "repeat".



(4) Say "Show list" to view the resulting search list.





Say "Start guidance" if guidance to the selected position is desired, or say "Show map" to verify the location of the selected position on the map. Searches for an emergency facility which is nearby the current position and sets it as the destination for route guidance. Emergency facilities are police stations, hospitals, and dealerships.

☑ Press the button on the Steering wheel remote controller.

②Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say the voice command. Ex) "Find emergency hospital"



3 Select the desired location from the list and say the line command.

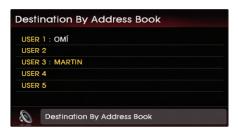


②Say "Start guidance" if guidance to the selected position is desired, or say "Show map" to verify the location of the selected position on the map.

■ Destination by address book

Sets one of the list of previously registered addresses in the address book for the user as the destination.

②Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say "Destination by address book".



Select the desired user name(Address book name).



(4) Select the desired location from the list and say the line command.



5) Say "Start guidance" if guidance to the selected position is desired, or say "Show map" to verify the location of the selected position on the map.



1 Press the button on the Steering wheel remote controller.

② Once the **(**) icon changes into the icon on the pop-up screen with a beep sound, say "Previous destination".



3 Select the desired location from the list and say the line command.



Say "Start guidance" if guidance to the selected position is desired, or say "Show map" to verify the location of the selected position on the map.

■ Previous start point

Sets the previous start point as the current destination.

- 1 Press the button on the Steering wheel remote controller.
- ② Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say "Previous start point".



Say "Start guidance" if guidance to the selected position is desired, or say "Show map" to verify the location of the selected position on the map.

■ Go home

Sets the previously registered home address as the destination for route quidance.

- ☐ Press the wheel remote controller.
- ②Once the **(**) icon changes into the **(**) icon on the pop-up screen with a beep sound, say "Go home".

Destination by memory point

Sets a previously registered memory point as the destination for route guidance.

- □ Press the button on the Steering wheel remote controller.
- ②Once the 🔊 icon changes into the (a) icon on the pop-up screen with a beep sound, say "Destination by memory point 1".

PART 5 BLUETOOTH HANDSFREE

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PART 5 BLUETOOTH HANDSFREE

Before using the Bluetooth Handsfree

What is Bluetooth?

- •Bluetooth allows wireless transmission of information between PC, mobile phones, headsets, PDAs, printers and other devices within close ranges by using 2.45Ghz frequency short-distance wireless telecommunication technologies.
- Within this vehicle, users can make handsfree calls, transmit mobile phone data, and play audio streaming files by connecting a mobile phone with the system.

Functions supported by Bluetooth Handsfree

- Pairing mobile phones (Up to 5 phones)
- Connecting/disconnecting mobile phones
- Making/Answering phone calls
- Downloading a Phone Book
- Downloading a Call history list
- Playing music saved in a Bluetooth phone in the vehicle

Some functions may not be supported in some mobile phone.

Converting Bluetooth Handsfree mode

Converting from AV/Navigation mode to Bluetooth Handsfree mode





①While in AV mode or Navigation mode, press the PHONE key or the key on the steering wheel.

Bluetooth°

Bluetooth is a trademark owned by Bluetooth SIG, Inc.



②The system will change to Bluetooth Handsfree mode and display the PHONE screen.



The following screen will become displayed if no mobile phone has been connected.





①While in Bluetooth Handsfree mode, press an AV/Navigation mode key, such as FM/AM or MAPVOICE.



2 The corresponding mode will be displayed.

INFORMATION

Most of the functions of the AV or SETUP modes are not supported while on a Bluetooth Handsfree call. The call volume and Navigation (MAPVOICE, DEST, ROUTE) screens can be operated.

PART 5 BLUETOOTH HANDSFREE

Pairing and connecting a Bluetooth phone

Pairing a mobile phone



①Press the Settings button on the PHONE screen.



Press the Pairings button on the Settings screen.



The list of currently paired phones will be displayed. Press the Add to button to pair a new mobile phone.

1 INFORMATION

For safety reasons, pairing a Bluetooth phone is not possible when the vehicle is in motion.

Park the vehicle in a safe location to pair a new phone. It is possible to pair up to five mobile phones. In order to pair a new phone when there are already five mobile phones paired, you must first delete one of the previously paired phones.



4 From the Bluetooth device list within the mobile phone, add the car handsfree. The default name of the car system is SORENTO.

For more information on registering Bluetooth devices from the mobile phone, please refer to the mobile phone user's manual.

1 INFORMATION

While conducting a Bluetooth device search from the mobile phone, operating to another screen will prevent the car handsfree from being found in the mobile phone. Always conduct searches for Bluetooth devices with the Search Bluetooth device screen displayed.



5 When pairing the car handsfree from the mobile phone, a passkey input window will become displayed on the mobile phone screen. Input the passkey set within the car system into the mobile phone input window. (The factory state passkey is 0000.) As shown in the figure, once the passkey becomes successfully inputted, the Bluetooth connection between the car system and mobile phone will start.



© Once Bluetooth connection is successful. the name of the connected mobile phone will become displayed on the PHONE screen and Bluetooth handsfree functions will operate.

INFORMATION

Some functions may not be supported due to limited Bluetooth compatibility between the car system and mobile phone.

PART 5 BLUETOOTH HANDSFREE



Press the Settings button on the PHONE screen.



Press the Pairings button on the Settings screen.



3 The list of currently paired phones will be displayed. Select the phone you wish to delete from the list and press the Delete button.



②A pop-up asking whether you wish to delete the paired phone will be displayed. Press the Yes button to delete the paired phone and the No button to cancel.



A mobile phone cannot be deleted if it is currently connected to the car system.

To delete the phone, first disconnect the mobile phone and try again.

Connecting a mobile phone



1 Press the Settings button on the PHONE screen.



2) Press the Connections button on the Settings screen.



3 The list of currently paired phones will be displayed. Select the phone you wish to connect from the list and press the Connect button.



When there are no paired phones, pair the mobile phone through [Settings>Pairings> Add to]. For more information on pairing mobile phones, refer to the user's manual [Pairing and Connecting a Bluetooth phone > Pairing a mobile phone].



4) The Bluetooth connection between the car. system and mobile phone will start.



5 Once Bluetooth connection is successful. the name of the connected mobile phone will become displayed on the PHONE screen and Bluetooth handsfree functions will operate.

PART 5 BLUETOOTH HANDSFREE



- Off the connection between the mobile phone and Bluetooth fails, the following pop-up will be displayed. If problems occur while connecting Bluetooth, check for the following conditions.
- Whether the mobile phone you wish to connect is in the vicinity of the car system
- Whether the power of the mobile phone Bluetooth has been turned off
- Whether the mobile phone Bluetooth has been set to hidden state
- Whether there are Bluetooth compatibility issues between the car system and another mobile phone



Press the Settings button on the PHONE screen.



Press the Connections button on the Settings screen.



The list of currently paired phones will be displayed. Select the phone you wish to disconnect from the list and press the Disconnect button.



Press the Yes button to disconnect the mobile phone and the No button to cancel.

Bluetooth Handsfree_screen • When a mobile phone is connected layout

Bluetooth Handsfree screen and functions

■ When there is no mobile phone connected



Settings: The user can set environment settings for the Bluetooth handsfree, such as pair/delete mobile phone, connect/ disconnect mobile phone, set call volume, change device name and change passkey.





- Phone battery charge status: Displays the battery charge status of the connected mobile phone. The battery charge status may not be displayed in some mobile phones.
- Signal strength: Displays the mobile phone signal strength. The signal strength may not be displayed in some mobile phones.
- Bluetooth connection state: Becomes displayed when a Bluetooth phone has been connected with the car system.
- 5 Name of connected mobile phone: Displays the name of the connected mobile phone.

- Phone number input window: Displays the inputted phone number.
- Dial: Input the phone number through the dial pad.
- 8 SEND: If a number has not been inputted into the phone number input window, then displays the call history list screen.
- Del: Deletes the inputted number one digit at a time.
- 10 END: If a number has been inputted, then erases the entire number.
- 1) Contacts: Displays the phone book screen. The user can search previously saved phone numbers.

■ When receiving an incoming call



- 12 Accept : Accepts the incoming call.
- 13 Reject: Rejects the incoming call.
- When already on a call



- Busy icon: When already on a call, displays an icon shaped like a receiver.
 - Name of incoming caller: Displays the name of incoming caller. The name of the incoming caller will not be displayed if the caller's phone number has not been previously registered in the phone book.
- 1 Number of incoming caller: Displays the number of the incoming caller.
- 17 Call state: Displays the call state, such as talk time, phone connection, and end time.
- 18 END: Ends the call.
- Private: When talking on the car handsfree, use this function to switch the call to the mobile phone. Press this button and the following screen will be displayed. The speaker and microphone will be switched to the mobile phone.



Mute: Use this function to mute the outgoing volume. Pressing the Mute button will display the at the top right side of the screen and the caller will not be able to hear the conversation taking place in the car. Press the Mute button again to release the Mute function.

■ When there is a call waiting



- 2) Switch: Use this button to switch between callers when there are calls on call waiting.
- 22 END: Use this button to end the calls with all callers.

Making a call

Making a call by dialing a phor number



① Use the number pad on the right side of the PHONE screen to input the number you wish to call.



2 Press the SEND button or the key on the steering wheel to make the call.

NFORMATION

modify, press the Del button to delete the inputted number one digit at a time. Press the END button or the key on the steering wheel to cancel the call.





①Use the number pad on the right side of the PHONE screen to input a speed dial number.

INFORMATION

Only speed dial numbers already stored on the mobile phone can be used for speed dial calls.

Up to 2-digit speed dial numbers are supported.



②Press the SEND button or the key on the steering wheel to make the call.

1 INFORMATION

For 2-digit speed dial numbers, press and hold the 2nd digit to make a call to the speed dial number.



These and hold (over 0.8 second) the SEND button on the PHONE screen or the key on the steering wheel.

1 INFORMATION

Redialing is not possible when there is no call history or the call history list is being downloaded from the mobile phone. When there is no call history list, the SEND button will be inactive.



2 The recently called number is redialed.

1 INFORMATION

It is not possible to display the AV mode and Settings screen when on a phone call. Only the call volume and Navigation (MAP, DEST, ROUTE) screens can be operated.

Answering a call

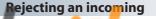
Answering an incoming ca



The following screen will be displayed when you receive an incoming call.



②To answer the incoming call, press the Accept button or the key on the steering wheel.





The following screen will be displayed when you receive an incoming call.



②To reject the incoming call, press the Reject button or the key on the steering wheel. The incoming call will be rejected.

INFORMATION

Upon receiving a call, the [Reject] function may not be supported in some mobile phones.

Operating menus during a call

Switching call to the mobile phone



Ilf you wish to switch the call to the mobile phone while talking on the car handsfree, press the Private button or press and hold (over 0.8 second) the key on the steering wheel.



② As shown, the call will be switched to the mobile phone.

1 INFORMATION

If you wish to switch the call to the car handsfree while talking on the mobile phone, press the Use handsfree button or press and hold (over 0.8 second) the key on the steering wheel. The call will be switched to the car handsfree.



If another person calls while already on a call, the following screen will be displayed.



2 Press the Accept button or the key on the steering wheel to receive the incoming call by switching to the new caller.



③ To switch again to the other caller, press the Switch button or the key on the steering wheel. The other call will be received and the previous call will switch back to call waiting.

1 INFORMATION

Press the End button or the key on the steering wheel to end the current call and call waiting.



To end a call, press the End button or the key on the steering wheel.



2 The call will be ended.

Phone Book

Making a call from the Phone book



Press the Contacts button on the PHONE screen.



2 The phone book list will be displayed.

INFORMATION

The system may begin to slow down when downloading the phone book in some mobile phones.

 Upon connecting a mobile phone, the phone book lists saved in the mobile phone will automatically be downloaded. The phone book download function may not be supported in some mobile phones.



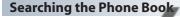
Select the number you wish to call from the phone book list and press the SEND button.



The call will be made to the selected number.

1 INFORMATION

- When there are more than 2 numbers saved in one phone number list, if the list is repeatedly selected, the registered phone numbers will be displayed sequentially on the list.
- The Mobile Phone/Office/Home categories received via the mobile phone may differ from the information actually stored in the mobile phone.
- •Select the phone number you wish to connect by repeatedly selecting the phone number list and press the SEND button to make the call to the selected number.





1 Press the Contacts button on the PHONE screen.



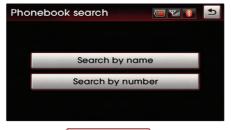
2 Press the Search button on the Contacts screen.



3 Phone numbers can be searched by either Search by name or Search by number

From the two methods, select the search method you wish to use.

■ Searching by name



4) Press the Search by name button on the Phonebook search screen.



Input the name you wish to search and press the Done button.



The search results will be displayed on the screen.



Press the Search by number button on the Phonebook search screen.



The search results will be displayed on the screen.





Input the phone number you wish to search and press the Done button.

Call History List

Making a call from Call history



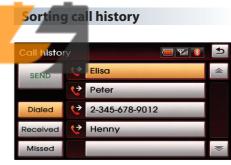
Press the SEND button on the PHONE screen or press the key on the steering wheel.



The call history list will be displayed. Select the number you wish to call from the call history list and press the SEND button.



The call will be made to the selected number.



- The call history can be displayed by sorting the incoming calls, outgoing calls and missed calls.
- ②When pressing the Dialed, Received, or Missed button, the corresponding call history list will be displayed.





■ Received number



1 INFORMATION

If there are no entries saved in the Dialed, Received, or Missed lists, the corresponding button will be inactive. Up to 20 entries can be saved in each list.

Phone Music

Before playing Phone mu

Music saved in the mobile phone can be played in the car through Bluetooth audio streaming.

Phone music can be played only when a Bluetooth phone has been connected. To play phone music, connect the Bluetooth phone to the car system. For more information on connecting Bluetooth, please refer to the user's manual [Pairing and Connecting a Bluetooth phone].

If the Bluetooth is disconnected while playing phone music, the music will be discontinued. The audio streaming function may not be supported in some mobile phones.

Only one function can be used at a time between the Bluetooth handsfree or Phone music function.

For example, if you convert to the Bluetooth handsfree while playing Phone music, the music will be discontinued

Playing music from the car is not possible when there are no music files stored in the mobile phone.

Starting Phone Music





1 Repeatedly press the CD/AUX key on the front panel or the MDOE key on the steering wheel to enter Phone music mode.

1 INFORMATION

Each press of the CD/AUX key on the front panel will change the function in the order of DISC \rightarrow USB or iPod \rightarrow AUX \rightarrow Phone Music \rightarrow DISC.

Each press of the MODE key on the steering wheel will change the audio mode in the order of FM1 \rightarrow FM2 \rightarrow AM \rightarrow SIRIUS1 \rightarrow SIRIUS2 \rightarrow SIRIUS3 \rightarrow DISC \rightarrow USB or iPod \rightarrow AUX \rightarrow Phone Music \rightarrow FM1.

It is not possible to enter Phone music mode if the mobile phone is not connected or if the audio streaming setting within Bluetooth handsfree settings has been set to [Disable streaming audio].

For more information on audio streaming setting, please refer to the user's manual [Bluetooth settings > Setting Audio streaming].



2 The Phone music screen is displayed.

1 INFORMATION

While music saved in the mobile phone will automatically begin playing after converting to the Phone music screen, this music player function may not be supported in some mobile phones.

If music does not begin playing even after converting to the Phone music screen, try starting the music directly from the mobile phone.



- 1 Information Bar: displays information for the currently playing song.
- 2 File Down button : plays the previous song.
- 3 Play/Pause button : Plays/pauses the song.
- 4 File Up button: plays the next song.



SCH-W750 Phone music

The previous or next song will be played each time the button or key is pressed.

1 INFORMATION

The file selection function may not be supported in some mobile phones.

Bluetooth settings

Pairing and connecting a mobile phone

For more information on pairing and connecting a mobile phone, please refer to [Pairing and Connecting a Bluetooth phone].

Setting mobile phone auto connect priority

INFORMATION

After turning on the car ignition and the system is booted up, the Bluetooth connection between the car system and mobile phone is automatically made.

The Bluetooth connection will be conducted in the order of mobile phone priority.

The auto connect priority will be supported only for previously paired mobile phones.



Press the Settings button on the PHONE screen.



Press the Priority button on the Settings screen.



3 The paired mobile phone list and the mobile phone connection priority will be displayed.

When wishing to change the priority order, select the mobile phone from the list and use the buttons to change its priority.

Press the **Done** button to save the changed mobile phone priority.

Setting Handsfree volume



Press the Settings button on the PHONE screen.



Press the Volume button on the Settings screen.

INFORMATION

The Bluetooth handsfree volume can be adjusted only when a mobile phone has been connected.

The Volume cannot be set if no mobile phone has been connected.



③Use the 〈, 〉 buttons to set the desired volume on the Phone volume screen. Press the Done button to save.

1 INFORMATION

While on a call, turning the POWER knob to the left/right or pressing the AVOL V key on the steering wheel will also adjust the call volume.

If the call volume is set too high, the loud incoming call bell may cause a traffic accident.



Press the Settings button on the PHONE screen.



Press the Streaming audio button on the Settings screen.



Streaming audio setting is selected.

1 INFORMATION

Enable streaming audio: Repeatedly press the CD/AUX key or the MODE key to enter Phone music mode. Phone music can be played through Bluetooth audio streaming. Disable streaming audio: Even if the CD/AUX key or the MODE key is repeatedly pressed, will not enter Phone music mode. Phone music through Bluetooth audio streaming is not supported.

Advanced settings

Bluetooth advanced settings can be changed. Enter advanced settings through the following way.



Press the Settings button on the PHONE screen.



②Press the Advanced setup button on the Settings screen.

INFORMATION

For safety reasons, operation of Advance setup is not possible when the vehicle is in motion. Please park in a safe place to make changes to Advanced setup.



3 The Advance setup screen will be displayed. In Advance setup, the following four settings can be made.

■Searching and modifying my device properties



4 Press the Device information button on the Advance setup screen.



Displays the Device information such as the name and address of the car system. To modify the device name, press the Change name button.



©Use the key pad to input the Device name you wish to modify.



☑After inputting is complete, press the Done button to save.

■Changing passkey



Press the <u>Change passkey</u> button on the Advance setup screen.



Once the Change passkey screen is displayed, input the desired passkey and press the Done button.

INFORMATION

The passkey is a 4-digit authentication code used for a Bluetooth connection between the mobile phone and car system. The default passkey is set to 0000.

■ Deleting all paired phones



Press the Delete all paired phones button on the Advance setup screen.



5 A pop-up asking whether you wish to delete all paired phone will be displayed.

Press the Yes button to delete all paired phones and the No button to cancel.



■ Initializing Bluetooth handsfree



Press the Restore factory settings button on the Advance setup screen.



S A pop-up asking whether you wish to initialize the Bluetooth handsfree will be displayed.

Press the Yes button to initialize the Bluetooth handsfree system and the No button to cancel.

INFORMATION

Upon initializing the Bluetooth handsfree, the entire paired phone list will be deleted and all Bluetooth related settings will be restored to factory state.



If Yes is pressed, the Bluetooth handsfree settings will be initialized.



Important information

About pairing mobile phone

- Q. I cannot search for mobile phones through the car system. What is the cause?
- A. Check to see whether the mobile phone you wish to connect supports Bluetooth function. If your mobile phone supports Bluetooth, check to see that whether the Bluetooth settings in the mobile phone have been set to hidden state or if the Bluetooth power has been turned off. If the device has been set to hidden, release the hidden state and if the Bluetooth power has been turned off, turn the power ON and try searching again.

- What is the difference between pairing a mobile phone and connecting a mobile phone?
 - Through a two-way passkey between the car system and mobile phones, up to 5 mobile phones can be paired with the car system. The paired mobile phone will remain paired with the car system until the user deletes it manually.

In addition, the call history lists and phone number books saved in each mobile phone will also be maintained until the paired phone is deleted. For more information on pairing mobile phones, please refer to the manual [Pairing and Connecting a Bluetooth phone > Pairing a mobile phone].

Connect a mobile phone to Bluetooth by selecting the desired mobile phone from the paired phones. Within the car system, only one Bluetooth phone can be connected at one time. For more information, please refer to the manual [Pairing and Connecting a Bluetooth phone > Pairing a mobile phone].

- What is a Passkey?
- A passkey is an authentication code used for two-way authentication of the car system and the mobile phone.

Only 4-digit numbers can be used as passkeys. Passkeys are registered only once when pairing the phone number for the first time. The factory-set passkey is 0000.

About making/answering phone calls

- Q. How can I answer a call?
- A. When you receive an incoming call, press the key on the steering wheel or the Accept button on the PHONE screen to answer. To reject the incoming call, press the key on the steering wheel or the Reject button on the PHONE screen.
- Q. What should I do if I am talking on the Handsfree but wish to switch the call to the mobile phone?
- A. To switch the call to the mobile phone, press the Private button on the PHONE screen or press and hold (over 0.8 second) the key on the steering wheel. If you wish to switch the call back to the car handsfree, press the Use handsfree button on the PHONE screen or press and hold (over 0.8 second) the key on the steering wheel.

About Bluetooth device environment



- Q. What is the range for Bluetooth wireless connection?
- A. The wireless connection range is within 10 meters.
- Q. How many mobile phones can be paired?
- A. It is possible to pair up to five phones with the car system.
- Q. What is the reason why the call quality deteriorates?
- A. First, check to see the signal strength of the mobile phone. The call quality may deteriorate when the signal strength is low. Call quality may also deteriorate if metal objects, such as drink cans, are placed near the mobile phone.

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PART 6 REAR SEAT ENTERTAINMENT SYSTEM (RSE)

PART 6 REAR SEAT ENTERTAINMENT SYSTEM (RSE)

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REAR SEAT ENTERTAIN MENT SYSTEM (RSE) (IF **EOUIPPED**)

Important Safety Information

Please read the following for safety precautions.



⚠ WARNING!

Ignoring the warnings listed within this user manual may cause fatal or serious injuries. Warnings indicate matters which may directly lead to accidents.



CAUTION!

Ignoring the cautions listed within this user manual may lead to accidents or injury. Cautions indicate matters which may lead to vehicle damage or malfunction.



INFORMATION

Information which the user must observe in order to prevent vehicle damage or malfunction.

Warnings which must be observed in the case

of vehicle malfunction.

information which the user must have prior knowledge of.

Information which allows for more convenient operation.

Closely observe and comply with the following cautions before using the product. All problems which occur in violation of the following will not be the responsibility of the manufacturer.

For user and passenger safety, please read the user manual carefully before using the product.

- 1. Do not disassemble, assemble, or modify the RSE system.
- 2. Set the volume to a level which allows the driver to be aware of external conditions.
- 3. Do not operate the RSE system for prolonged periods of time with the vehicle ignition turned off. Such operations may lead to battery discharge.
- 4. Be cautious not to spill water or introduce foreign objects into the device.

- 5. Opening the Roof Monitor with excessive force may lead to damage.
- 6. In case of product malfunction, please contact your place of purchase or After Service center.



A CAUTION!

When cleaning this product, make sure to turn off the device and use a dry and soft cloth. Never use harsh materials, chemical cloths, or solvents (alcohol, benzene, thinners, etc.) as such materials may damage the device panel or cause color and quality deterioration.

This device complies with Part 15 of the FCC rules.

Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- 2. This device must accept any interference received, including interference that may cause undesired operation.

\triangle

WARNING!

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Product Characteristics

This device is a total AV system supporting audio CD, MP3, VCD, DVD and AUX. With a WIDE VGA LCD (176.7 X 99.4mm.), this device allows for powerful sound and driving enjoyment.

| Dolby | Dolby | Dolby Digital |
|---------------------------|--|---|
| | Logo | DOLBY |
| | Notice | Manufactured under license from Dolby Laboratories. Dolby and double-D symbol are trade- marks of Dolby Laboratories. |
| | Notice | DVD Video Player |
| DVD FLLC | Logo | VIDEO |
| Macrovision Notice | | U.S. Patent Nos. 4,631,603; 4,577,216; 4,819,098; 4,907,093; and 6,516,132 |
| | This product incorporates copyright protection technology that is protected by U.S patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited. | |

Display

Large-size (176.7 X 99.4mm) WIDE VGA LCD with CCFL installed large-size (176.7 X 99.4 mm) WIDE VGA LCD provides high viewing pleasure.

With NORMAL, FULL, WIDE screens, the display can be selected in accordance to user preference and video suitability.

■ DVD Player

Auto Play function

Inserting an audio CD, MP3, VCD, DVD will automatically turn on the device and begin playing. (Auto conversion to Roof Monitor)

PBC support (PLAY BACK CONTROL)

The various information encoded in the Video CD can be enjoyed by using the interactive menu encoded in MPEG1 Version 2.0 Video CD discs.

■Others

Digital screen control function

The brightness, saturation, hue and contrast of the screen can be easily adjusted.

Name and function of system parts

■ REAR Roof Mount Monitor



- Used to pause or replay the current file on the RSE system.
- Used to return to the previous screen. (When moving to the parent menu from the child menu (menu which is one level lower), there will be no operation within the main menu screen or other screens.)
- 3 Switches to the DVDP/RSE AUX mode.
- Used to move the select area leftwards.
- (5) Used to move the select area rightwards.
- 6 Used to move the select area upwards.
- 10 Used to move the selected area downwards.
- (8) Used to select the button within the selected area.

- Used to make screen setting for the mode currently operating on the RES system.
- Used to display the menu for the mode currently operating on the RSE system.
- ① Used to turn the power of the RSE system on/off.
- 1 This switch is used to open the REAR monitor.
- (B) Earphone connection terminal
- Earphone volume controller
- A receiver is installed within the Remote Controller.
- A device which transmits signals to the infrared wireless headset is installed.



- 1 This switch is used to eject the DISC from the REAR DVDP DECK.
- If a disc, such as a CD/MP3/VCD/ DVD title, is inserted in the DISC slot, the corresponding mode will automatically be recognized and displayed on the screen. If a disc is inserted while the power is OFF, the power will be turned on automatically and the corresponding mode will become displayed.
- **1** Display when a DISC has been inserted.
- 4 An auxiliary AUDIO & VIDEO player (camcorder, vehicle VCR, etc.) can be connected for viewing.)



- This is used to turn the power on/off.
- ? This is used to make volume adjustments.

A CAUTION!

The power button and volume are positioned at the left side of the headset. Wearing the headset with the left and right-side reversed may reduce sound quality and reception. Check to see that the headsets are properly worn.



Rear Remote Controller

- Used to turn the power of the RSE system on/off.
- Used to illuminate the remote controller when the interior of the vehicle is dark.
- Used to operate the DVDP mode.
- Used to operate the AUX mode.
- Used to make screen settings for the mode currently operating on the RSE system.
- **6** Used to display the menu for the mode currently operating on the RSE system.
- **1** Used to display the SEARCH screen while in DVD/VCD mode.
- Used to return to the previous screen. (When moving to the parent menu from the child menu (menu which is one level lower), there will be no operation within the main menu screen or other screens.)

- 9 Used to move the select area upwards. Used to sets the DVD title.
- Used to move the select area
- 1 Used to move the select area rightwards.
- Used to move the selected area downwards.
- (B) Used to select the button within the selected area.
- Used to operate the SEEK or TRACK selection function in accordance to the currently playing AV mode.
- 1 Used to operate the FF/REW functions for the current AV mode.
- Used to set the DVD menu.
- Tuesd to pause or replay the current file on the RSE system.

change the DVD AUDIO lanquage.

- M Used to change the DVD SUBTITLE.
- Used to change the DVD ANGLE.

Operating the RSE System

■ Starting the System

Position the ignition key onto ACC or ON. 2 If PWR button on the Root Mount Monitor or the button on the remote controller is pressed, the AV system will turn on and display the most recently operated mode. (EX: turning on the system will display DVD mode if the last operated mode prior to turning off the system had been DVD)



■Turning Off the System

If PWR button on the Root Mount Monitor or the button on the remote controller is pressed while the RSE system is operating, the Rear AV system will stop operation and turn off.

■ Methods of RSE System Operation

The RSE system is operated by using the and was and was key on the Root Mount Monitor, was key and key on the remote controller.

■ Operating the RSE System

- ①Press one of the () keys on the remote controller to display a select area.
- If the key button on the remote controller is pressed, the select area will move in the direction of the pressed button.

Move to the desired direction and press the key on the remote controller to select the current button.

3 If there are no operations for 10 seconds,

the select area will disappear. Re-pressing one of the Albaham keys will recreate the select area.

1 INFORMATION

The wand was keys on the REAR Roof Mount Monitor and the wand wand keys on the Remote controller are used to conduct the same functions.

Adjusting the Screen Settings for the RSE (REAR) System

Adjusting the Video Screen Quality



The Press the DISPLAY button on the Roof Mount Monitor or the DISP button on the Remote Controller to display the semi-transparent video mode screen set-

ting menu on the screen.

2)The 4-direction keys on the Roof Mount Monitor or the Remote Controller can be used to make adjustments to the brightness, saturation, hue, contrast, day night, auto-light, screen ratio, etc.

Adjusting the Non-Video Screen Quality



- Thress the DISPLAY button on the Roof Mount Monitor or the DISP button the remote controller while non-video mode is playing to display the non-video mode screen setup menu.
- ②Use the 4-direction keys on the Roof Mount Monitor or the Remote Controller to adjust the brightness, day/night modes and Auto Light function.

1 INFORMATION

Upon selecting DAY LIGHT, the bright screen is always maintained regardless of the on/off state of the car taillights. However, brightness may be set to 90% in accordance to the external auto light sensor.

Upon selecting AUTO LIGHT, the display is automatically brightened or darkened in accordance to external brightness.

DVDP/AUX

Starting DVDP/AUX mode by use of Roof Mount Monitor

- The Press the the MODE button key on the Roof Mount Monitor.
- ② Pressing the the MODE button key will change the mode in the order of DVDP/AUX/ DVDP mode.

■ Starting DVDP/AUX mode by use of Rear remote controller

- Press the the DISC button key on the Rear Remote Controller to enter DVDP mode.
- ②Press the AUX key on the Rear Remote Controller to enter AUX mode.



INFORMATION

If there are no discs already inserted in the DVD player, pressing the DISC key on the remote controller will not begin mode operation.





- The Press the MODE key on the Roof Mount Monitor or the DISC key on the Rear remote controller to change to DVD Player mode.
- ②If a CD is inserted in the DVD player, the CD mode screen will be displayed.

■ CD mode menu screen configuration



- Mode display: This displays that the current mode is CD mode of the DVD Player.
- TRACK DOWN button: The start of the current or previous track will begin playing. The start of the current track will begin playing if the track has played for over 3 seconds. The start of the previous track will begin playing if the track has played for under 3 seconds.
- 3 TRACK UP button: The start of the next track will begin playing.
- 4 FAST FORWARD button : The track can be fast forwarded.
- 5 FAST REWIND button: The track can be

- rewinded.
- PLAY/PAUSE button: Used to pause or replay the current track on the RSE system.
- 7 TRACK display: The current TRACK of the currently playing DISC is displayed.
- 8 Play time: The play time of the currently playing song is displayed.
- Selecting a track with the Remote Controller & Searching a playing track
- 2. Pressing the

 ✓ TUNE ➤ key on the Remote Controller will quick search the current track.

1 INFORMATION

If there are no discs already inserted in the DVD player, pressing the DISC key on the remote controller will not begin mode operation.

The RANDOM, REPEAT and SCAN functions are not supported.

MP3

■ Starting MP3 mode



- Press the MODE key on the Roof Mount Monitor or the DISC key on the Rear remote controller to change to DVD Player mode.
- ②If an MP3 is inserted in the DVD player, the MP3 mode screen will be displayed.

MP3 mode menu screen configura-



- Mode display: This displays that the current mode is MP3 mode of the DVD Player.
- PLAY MODE button: Displays the menu of the mode currently being played. Press again to close the menu.
- 3 FILE DOWN button: The start of the current or previous file will begin playing. The start of the current file will begin playing if the file has played for over 3 seconds. The start of the previous file will begin playing if the file has played for under 3 seconds.
- 4 FILE UP button: The start of the next file will begin playing.

- FAST FORWARD button : The file is fast forwarded.
- 6 FAST REWIND button : The file is rewinded.
- PLAY/PAUSE button: Used to pause or replay the current file on the RSE system.
- 8 LIST button : Moves to the MP3 LIST screen.
- 9 INFO button: The information (Title/ Artist/Album name) of the currently playing file is displayed. This function is supported only in MP3 files inputted within information.
- Folder name display: Displays the folder of the currently file.
- 1) File name display: Displays the name of the currently playing file.
- Play time display: The play time of the currently playing song is displayed.

- Selecting a file with the Remote Controller & Searching a playing file
- Press the SEEK/TRACK ▶► button on the Remote Controller to move to the previous or next file.
- Pressing the ◀◀ TUNE ▶▶ button on the Remote Controller will quickly search the previous or next files.

1 INFORMATION

If there are no discs already inserted in the DVD player, pressing the DISC key on the remote controller will not begin mode operation.

The RANDOM, REPEAT and SCAN functions are not supported.



- Mode display : Display the current LIST screen.
- 2 Folder name display : Displays the folder of the current file.
- 3 File name display: Displays the name of the current file.
- 4 Play time display: Displays the play time of the current song.
- **5** LIST UP button : Displays the previous LIST.
- **6** LIST DOWN button : Displays the next LIST.
- 7 LIST page display: The number of MP3 lists [Current Page/ Total Pages) is displayed.

- 8 Scroll bar display: The location of the folder within the current list is displayed.
- LIST folder display: The folder name which shows what folder the current list is in will be displayed.
- 10 LIST: The folders and files in the current folder are displayed.
- Selected LIST display: The currently selected LIST is displayed.
- HOME button: When having moved to a list which does not display the currently playing file, pressing this button will return to the LIST screen of the currently playing file. (This button is inactive when the displayed LIST includes the currently playing file.)
- 13 PARENT folder button: Moves to the Parent Folder.
- 14 ROOT folder button : Moves to the Root Folder.
- **15** CLOSE button : The MP3 mode menu screen will become displayed.

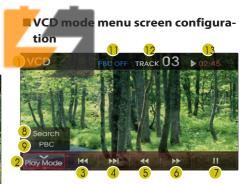


The detail information will only be displayed when such information has been recorded in the ID3 tag of the MP3 file.





- ① Press the MODE key on the Roof Mount Monitor or the DISC key on the Rear remote controller to change to DVD Player mode.
- ②If a VCD is inserted in the DVD player, the VCD mode screen will be displayed.





- Mode display: This displays that the current mode is VCD mode.
- 2 PLAY MODE button: Displays the menu of the mode currently being played. Press again to close the menu.
- 3 TRACK DOWN button: The start of the current or previous track will begin playing.

PART 6 REAR SEAT ENTERTAINMENT SYSTEM (RSE)

- track will begin playing.
- 5 FAST FORWARD button: The track is f forwarded.
- 6 FAST REWIND button: The track is rewinded.
- 7 PLAY/PAUSE button: Plays/pauses the track.
- 8 SEARCH button: The desired track can be inputted for play.
- 9 PBC(Play Back Control) button: As a function supported only with Video CD version 2.0 discs, the PBC function can be turned ON or OFF.
- 10 MENU button: The interactive menu encoded on the VCD is displayed. This menu is displayed only when the PBC is set to ON in a Video CD version 2.0 DISC.
- 1 PBC setting display: The PBC ON or PBC OFF is displayed in accordance to PBC setting.
- 12 TRACK number display: The current track number is displayed.
- 13 Play time display: The play time of the current VCD is displayed.

- Controller & Searching playing
- 1. Press the

 SEEK / TRACK ▶ button on the Remote Controller to move to the previous or next track.
- 2. Pressing the ◀◀ TUNE ▶▶ button on the Remote Controller will quickly search the current track.

■ Using the PBC function



- 1 Press the AV MENU button on the Remote Controller in the VCD video screen to display the VCD menus.
- 2 Press the Play Mode button to display the sub menus and press the PBC button to enter the PBC menu screen. (When in

- PBC ON state, press the MENU button to enter the PBC screen.)
- Move the focus to the number input area and input the desired number by operating the top-down direction keys.
- 4 Press the Enter button to operate the selected menu.

What is the PBC(Play Back Control) •function?

This function allows the various information stored on the Video CD to be viewed by using the interactive menu encoded on a MPFG1 version 2.0 Video

- CD discs.
 - The PBC function is supported only in
- Video CD version 2.0 discs.

The PBC function may operate differently in accordance to the manufacturing conditions on the Video CD version 2.0 disc.

1 INFORMATION

Selecting < Page → will display the set menus of the previous or next page.

1 INFORMATION

The PBC will return to OFF state if a different DISC is inserted, the power or ignition is turned ON/OFF while in PBC ON state.

/D

Starting DVD mode

- The Press the MODE key on the Roof Mount Monitor or the DISC key on the Rear remote controller to change to DVD Player mode.
- ②If a DVD is inserted in the DVD player, the DVD mode screen will be displayed.



■ Contents of DVD Title

The video and sound recorded on the DVD are divided into titles and can be recognized by their title numbers. Each title is sub-divided into smaller units called chapters and each chapter can be recognized by the chapter number. The title number and chapter number of the current DVD title is

displayed on the upper side of the DVD operation menu screen.

■ DVD region code

The DVD player and DVD discs are set with region codes and can be played in accordance to the sales region. If a disc besides "Region Code 1(United States, American region, Canada)" or "All-region disc" is inserted, then a "Region Code Error" screen will be displayed and disc play will not be supported.

PART 6 REAR SEAT ENTERTAINMENT SYSTEM (RSE)

■ DVD mode menu screen configuration



- Mode display: This displays that the current mode is DVD mode of the DVD Player.
- 2 PLAY MODE button: Displays the menu of the mode currently being played. Press again to close the menu.
- 3 CHAPTER DOWN button : Moves to the previous chapter.
- 4 CHAPTER UP button : Moves to the next chapter.
- S FAST REWIND button: The current title can be rewinded. Continue to press the button until the desired chapter has been reached.

- FAST FORWIND button: The current title can be forwinded. Continue to press the button until the desired chapter has been reached.
- **7** PLAY/PAUSE button : Pauses or replays the DVD.
- 8 DVD setting button : Restores the initial DVD setup screen.
- TITLE button: For some types of DVD titles, there could be several initial menu setup screens. This is used to return to the root setup menu screen.
- MENU button: This is used to return to the initial menu setup screen while a DVD title is playing.
- 1 SEARCH button: The desired title/chapter can be directly selected by searching the chapters/titles.
 - Searches are not supported when the initial logo video/menu is being displayed. Searches are possible only when the video is playing.
- 12 ANGLE button: The angle can be set for DVD titles encoded with the Multi-Angle function.

- SUBTITLE button: The subtitle can be set for DVD titles supporting Multi-Subtitle function.
- 14 AUDIO button: The voice language can be set for DVD titles supporting Multi-Language function.
- **15** TITLE number display: The current title number is displayed.
- **1** CHAPTER number display: The current chapter number is displayed.
- 17 Play time display: The play time of the current title is displayed.

■ DVD mode setting

If the DVD Setup button in the DVD mode menu screen is pressed, the setup screen as shown below will become displayed.



1 INFORMATION

The DVD setup screen is used not to change the settings of the current DVD title but to define the settings of the DVD PLAYER. In order to apply the modified valued, restart the current DVD from the beginning.

The set values will not be applied in the case of playing a DISC which does not support the currently set language or the current settings.

Setting voice language

- 1 Press the Audio button in the DVD setup screen.
- Select the desired voice language.
 If the Others button is pressed, languages other than the ones displayed can be directly inputted for selection.
- ③ If the Others button is selected, the voice language code input screen will be displayed. Input the desired code.
- If a proper code is inputted, the DVD setup screen will be returned and display the set voice language.
- Press the Done button to complete the changes and replay from the beginning.

■ Setting subtitle language

- Press the Subtitle language button in the DVD setup screen.
- Select the desired subtitle language.
 Press the Others button to set a different subtitle. Press the Subtitle OFF button to turn off the subtitle display.
- The method of inputting subtitle lanquage code is the same as the method of

inputting voice language code.

■ Setting menu language

- Press the Menu button in the DVD setup screen.
- Select the desired menu language.
 Press the Others button to display a different menu language.
- 3 The method of inputting the menu language code is the same as the method of inputting voice language code.

1 INFORMATION

Please refer to the Language Code page at the back of the user manual.

The set values will not be applied in the case of playing a DISC which does not support the currently set language or the current settings.

PART 6 REAR SEAT ENTERTAINMENT SYSTEM (RSE)

■ Searching title/chapter



- ①Press the AV MENU button on the Remote Controller in the DVD video screen to display the DVD menus.
- Press the Play Mode button to display the sub menus and press the Search button to enter the SEARCH menu screen.
- Move the focus to the title/chapter number input area and input the desired title or chapter number by operating the topdown direction keys.
- Press the Enter button to operate the selected menu.



■Upon first playing a DVD title, a menu screen will become displayed after the initialization video.

While the DVD is playing, press the AV MENU on the Roof Mount Monitor or AV MENU the Remote controller to display a semi-transparent menu screen. Select the Play Mode button on the menu screen to display the sub menus and press the Menu button. (Press the MENU key positioned at the bottom of the remote controller to directly enter the menu screen.)

Select the desired menu by using the 4direction keys on the Roof Mount Monitor or the Remote Controller and press ENTER. INFORMATION
The menu will operate only in supported DVD titles.

AUX (auxiliary device input)

1 INFORMATION

The RSE AUX mode will operate only when an auxiliary AUDIO & VIDEO player (camcorder, vehicle VCR, etc.) is connected and operating.

■ Starting AUX mode

- The Press the MODE key on the Roof Mount Monitor or the AUX key on the Rear remote controller to change to AUX mode.
- ② The AUDIO AUX or VIDEO AUX screen will be displayed according to the audio/video signal.





1 INFORMATION

If the device connector jack is disconnected while operating AUX mode, a "No Media" message will be displayed for 30 seconds and automatically return to the previous screen.

A CAUTION!

 Having the auxiliary cable connected even when there is no auxiliary device can convert the device into AUX mode and cause noise.

Please make sure to remove the auxiliary cable when an auxiliary device is not being used.

 Connecting an auxiliary device to the cigarette jack and playing through the screen of the device may cause an occurrence of noise.

If such noise occurs, remove the power cable from the cigarette jack.

PART 6 REAR SEAT ENTERTAINMENT SYSTEM (RSE)

■ Connecting an external VIDEO player



- An auxiliary AUDIO & VIDEO player (camcorder, vehicle VCR, etc.) can be connected for viewing.
- 2The AUX jack is positioned next to the POWER OUTLET on the backside of the consol box located in between the driver and passenger seat.

MINFORMATION

Among the auxiliary VIDEO connector jacks, the yellow is for video, red is for right side audio, and white is for left-side audio.



- 2. This device supports the NTSC color system. Other systems beside NTSC will not be supported.
- The recommended audio input standard for this device is max 1Vrms. Input which exceeds this value may cause deteriorated sound quality.





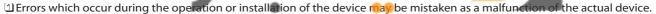
PART 7 APPENDIX



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Troubleshooting guide

Before thinking the product has malfunctioned



2) If you are having problems with the device, try the suggestions listed below.

③ If the problems persist, contact your point of purchase or the nearest service center.

| Problem | Function |
|---|---|
| There are small red, blue, or green dots on the screen | Because the LCD is manufactured with technology requiring high point density, a pixel deficiency or lighting may occur within 0.01% of total pixels. |
| The sound or image is not working | Has the Switch for the vehicle been turned to [ACC] or [ON]? Has the SYSTEM been turned OFF? |
| The video is being displayed but sound is not working | Has the volume been set to a low level? Has the volume been set on mute? |
| When the power is turned on, the corners of the screen are dark | • The display looking somewhat darker after prolonged periods of use is a normal phenomenon with LCD panels. It is not a malfunction. |
| Sound is working from only one speaker | If the screen is very dark, contact your point of purchase or the nearest service center. Is the position of FAL/BAL sound controls or volume adjusted to only one side? |
| Sound and video does not work in AUX mode | Is the audio and video connector jacks fully inserted into the AUX terminal? |
| The external device is not working | Is the external device connected with a standard connector cable? |
| The road is missing | Some map data may be missing or incorrect. |
| The road name is spoken incorrectly | The TTS(Text To Speech) engine speaks the street name based off of the phonetic spelling. This will continuously be update with the map database. |

| Problem | Possible Cause | Solution | | | | |
|---|--|---|--|--|--|--|
| The power does not turn on. | The fuse is disconnected. | Replace with a suitable fuse. If the fuse is disconnected again, please contact your point of purchase or service center. | | | | |
| | Device is not properly connected. | Check to see that the device has been properly connected. | | | | |
| XM only goes through one category | The XM mode is in category. | Press the mode button to change to channel mode. | | | | |
| The DVD does not play. | The DISC has not been inserted or has been inserted upside down. | Insert the disc properly so that the sides are facing the correct direction. | | | | |
| | The DISC has been contaminated. | Wipe clean dirt and other foreign substances from the DISC. | | | | |
| | The vehicle battery is low. | Charge the battery. If the problem persists, please contact your point or purchase or service center. | | | | |
| | A disc which is not supported by the device has been inserted. | Insert a disc which is supported for play by the device. | | | | |
| | A disc which as a region code not supported by the device has been inserted. | The region code for the device is code "1". Use a DVD which has the region code of "1" or "ALL". | | | | |
| | The DVD cannot be played because the parental guidance level is operating. | Check the parental guidance level in the initial setup screen. | | | | |
| The image color or tone quality is low. | The brightness, saturation, hue, and contrast levels are not properly set. | Adjust the brightness, saturation, hue, and contrast levels through the display setting. | | | | |
| The video does not work. | The brightness level has been set to the lowest level. The device is not properly connected. | Adjust the brightness to a higher level. Check to see that the device has been properly connected. | | | | |

PART 7 APPENDIX

| Problem | Possible Cause | Solution |
|---|---|--|
| The sound does not work. | The volume level is set the lowest level. The connector is not properly connected. The device is currently fast-forwarding, rewinding, scanning, or playing in slow mode. | • Adjust the volume level. • Check the connection state. • The sound will not work when the device is fast-forwarding, rewinding, scanning, or playing in slow mode. |
| The sound or video quality is low. | The DISC is dirty or scratched. Vibration is occurring from the position in which the conversion switch has been installed. The color and tone quality of the image is low. | Wipe off water or dirt from the DISC. Do not use a disc which has been scratched. The sound may be short-circuited and the image distorted if the device begins to vibrate. The device will return to normal operation once the vibration has stopped. Aging of the video display and deterioration in performance may cause certain quality degradations. |
| Subtitles do not work. | Subtitles are not included in the current playing DVD. The subtitle language has been set to "OFF". | The subtitles cannot be played. Set the subtitle language on the desired language. |
| Subtitles do not turn off. | The DVD currently being played has disabled the hide subtitle function. | The subtitle cannot be turned off. |
| The sound or subtitle language does not change. | Only one language is included in the current playing DVD. The current playing DVD only supports one language. | The language cannot be changed if the DISC does not support multi-languages. The language cannot be changed. |
| The selected sound or subtitle language cannot be used. | A language which is not supported by the current playing DVD has been selected. | A language not supported by the DVD cannot be played. |

| Problem | Possible Cause | Solution |
|--|--|--|
| The aspect ratio selected in the initial setting phase cannot be used. | An aspect ratio which is not supported by the current playing DVD has been selected. | An aspect ratio not supported by the DVD cannot be played. |
| The angle cannot be adjusted. | The current playing DVD only supports one angle setting or only some of the DVD scenes support multi-angles. The current playing DVD only supports one angle. | The angle cannot be changed if the DISC does not support multi-angles or when playing a scene with only one angle. The angle cannot be changed. |
| The USB does not work. | USB memory is damaged. USB memory has been contaminated. A separately purchased USB HUB is being used. A USB extension cable is being used. A USB which is not a Metal Cover Type USB Memory is being used. A HDD type, CF, SD Memory is being used. There are no music files which can be played. | Please use after formatting the USB into FAT 12/16/32 format. Remove any foreign substances on the contact surface of the USB memory and multimedia terminal. Directly connect the USB memory with the multimedia terminal on the vehicle. Directly connect the USB memory with the multimedia terminal on the vehicle. Use a standard USB Memory. Use a standard USB Memory. Only MP3,WMA file formats are supported. Please use only the supported music file formats. |
| The iPod is not recognized even though it has been connected. | There are no titles which can be played. The iPod firmware version has not been properly updated. The iPod device does not recognize downloads. | Use iTunes to download and save MP3 files into the iPod. Use iTunes to update the firmware version and reconnect the iPod with the device. Reset the iPod and reconnect with the device. |

PART 7 APPENDIX

DVD region code and language Code

Region code

| Region Code | Countries |
|----------------|---|
| 0 | No Region Coding |
| 1 | United States of America, Canada |
| 2 | Europe, including France, Greece, Turkey, Egypt, Arabia, Japan and South Africa |
| 3 | Korea, Thailand, Vietnam, Borneo and Indonesia |
| 4 | Australia and New Zealand, Mexico, the Caribbean, and South America |
| 5 | India, Africa, Russia and former USSR countries |
| 6 | Peoples Republic of China |
| 7 | Unused |
| 8 | Airlines/Cruise Ships |
| 9 | Expansion (often used as region free) |

| Lang | uage code | | • | 2 // | | | | | | | |
|------|-------------|------|-----------|------|-------------|------|-------------|------|------------|------|-------------|
| Code | Country | Code | Country | Code | Country | Code | Country | Code | Country | Code | Country |
| 0101 | Afar | 0315 | Corsican | 0625 | Frisian | 0923 | Hebrew | 1222 | Latvian | 1518 | Oriya |
| 0102 | Abkhazian | 0319 | Czech | 0701 | Irish | 1009 | Yiddish | 1307 | Malagasy | 1601 | Punjabi |
| 0106 | Afrikaans | 0325 | Welsh | 0704 | Scots | 1001 | Japanese | 1309 | Maori | 1612 | Polish |
| 0113 | Amharic | 0401 | Danish | 0712 | Gallegan | 1022 | Javanese | 1311 | Macedonian | 1619 | Pushto |
| 0118 | Arabic | 0405 | German | 0714 | Guarani | 1101 | Georgian | 1312 | Malayalam | 1620 | Portuguese |
| 0119 | Assamese | 0426 | Bhutani | 0721 | Gujarati | 1111 | Kazakh | 1314 | Mongolian | 1721 | Quechua |
| 0125 | Aymara | 0512 | Greek | 0801 | Hausa | 1112 | Greenlandic | 1315 | Moldavian | 1813 | Romance |
| 0126 | Azerbaijani | 0514 | English | 0809 | Hindi | 1113 | Cambodian | 1318 | Marathi | 1814 | Kirundi |
| 0201 | Bashkir | 0515 | Esperanto | 0818 | Croatian | 1114 | Kannada | 1319 | Malay | 1815 | Romanian |
| 0205 | Belarusian | 0519 | Spanish | 0821 | Hungarian | 1115 | Korean | 1320 | Maltese | 1821 | Russian |
| 0207 | Bulgarian | 0520 | Estonian | 0825 | Armenian | 1119 | Kashmiri | 1325 | Burmese | 1823 | Kinyarwan |
| 0208 | Bihari | 0521 | Basque | 0901 | Interlingua | 1121 | Kurdish | 1401 | Nauru | 1901 | da Sanskrit |
| 0209 | Bislama | 0601 | Persian | 0905 | Interlingue | 1125 | Kirghiz | 1405 | Nepali | 1904 | Sindhi |
| 0214 | Bengali | 0609 | Finnish | 0911 | Inupiak | 1201 | Latin | 1412 | Dutch | 1907 | Sangho |
| 0215 | Tibetan | 0610 | Fijian | 0914 | Indonesian | 1214 | Lingala | 1415 | Norwegian | 1908 | Croation |
| 0218 | Breton | 0615 | Faroese | 0919 | Icelandic | 1215 | Laotian | 1503 | Occitan | 1909 | Sinhalese |
| 0301 | Catalan | 061 | French | 0920 | Italian | 1220 | Lithuanian | 1513 | Oromo | 1911 | Slovak |

Language code

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Language code

| Code | Country | Code | Country |
|------|-----------|------|------------|
| 1912 | Slovenian | 2012 | Tagalog |
| 1913 | Samoan | 2014 | Tswana |
| 1914 | Shona | 2015 | Tonga |
| 1915 | Somal | 2018 | Turkish |
| 1917 | Albanian | 2019 | Tsonga |
| 1918 | Serbian | 2020 | Tatar |
| 1919 | Swati | 2023 | Twi |
| 1920 | Sesotho | 2111 | Ukrainian |
| 1921 | Sundanese | 2118 | Urdu |
| 1922 | Swedish | 2126 | Uzbek |
| 1923 | Swahili | 2209 | Vietnamese |
| 2001 | Tamil | 2215 | Volapuk |
| 2005 | Telugu | 2315 | Wolo |
| 2007 | Tajik | 2408 | Xhosa |
| 2008 | Thai | 2515 | Yoruba |
| 2009 | Tigrinya | 2608 | Chinese |
| 2011 | Turkmen | 2621 | Zulu |

Map legend

| Day Road Type | Color |
|-----------------|-------|
| Freeway | |
| Arterial | |
| County | |
| Collector | |
| Local | |
| Unpaved local | |
| Ferry | |
| | |
| Night Dood Type | Color |

| Night Road Type | Color |
|-----------------|-------|
| Freeway | |
| Arterial | |
| County | |
| Collector | |
| Local | |
| Unpaved local | |
| Ferry | |

| PO | icons | | |
|----|-------------|-----------------|--------------------|
| No | Category | Sub Category | lcon |
| 1 | | Representation | |
| 2 | | Fast Food | |
| 3 | | American | 71 |
| 4 | | French | 7.1 |
| 5 | | Italian | 7.1 |
| 6 | | Continental | <u>:</u> : |
| 7 | | Mexican | |
| 8 | Restaurants | Japanese | - 7.1 |
| 9 | | Chinese | ₩ |
| 10 | | Korean | :•:] "∤ |
| 11 | | Vegetarian Food | |
| 12 | | Seafood | |
| 13 | | Latin American | • |
| 14 | | Asian | |
| 15 | | African | E |

| PO | licons | . // | • | | _ • | -1 - / | | 7 | 4 | | |
|----|-------------|-----------------------|--------------|----|----------|---------------------|--------|----|------------|----------------------|----------|
| No | Category | Sub Category | Icon | No | Category | Sub Category | lcon | No | Category | Sub Category | lcon |
| 16 | Destaurants | Coffee Shop | | 31 | | Airport | | 46 | | Shopping Center | SHOP |
| 17 | Restaurants | Others | "JJ | 32 | | Hotel | رصر | 47 | | Music Store | |
| 18 | | Representation | | 33 | Travel | Tourist Information | i | 48 | | Grocery Store | |
| 19 | | Gas Station | GAS | 34 | | Travel Agent | Tour | 49 | Shopping | Bookstore | |
| 20 | | Parking | P | 35 | | Tourist Attraction | â | 50 | | Electronics | |
| 21 | | Auto service | | 36 | | Popular Spot | ÷ | 51 | | Hardware Store | 1 |
| 22 | | Road Assistance | 6 | 37 | | Rental Car Agency | 4 | 52 | | Gifts | |
| 23 | Automotive | Hyundai Dealership | 2 | 38 | | Campground | À | 53 | | Sporting Goods | |
| 24 | Additionic | Kia Dealership | | 39 | | Ferry Terminal | 点 | 54 | | Home Specialty Store | 7 |
| 25 | | Automobile Dealership | \$ | 40 | | Bus Station | | 55 | | Clothing | Store |
| 26 | | Auto Parts | (10) | 41 | | Local Transit | ₽ A | 56 | | Shoe Store | |
| 27 | | Rest Area | Rest Area | 42 | | Train Station | Ž | 57 | | Representation | % |
| 28 | | Car Wash | | 43 | | Representation | | 58 | Danuartin | Amusement Park | |
| 29 | | Motorcycle Dealeship | \$ | 44 | Shopping | Department Store | | 59 | Recreation | Museum | Ñ |
| 30 | Travel | Representation | | 45 | | Convenience Store | 24 | 60 | | Cinema | Y |

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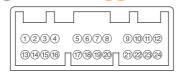
| PO | licons | . / | _ | •: 1 | | - 11 - 1 | | | | | |
|----|------------|-----------------------|---------------|------|-----------|--------------------|----------|-----|----------|---------------------|---|
| No | Category | Sub Category | lcon | No | Category | Sub Category | Icon | No | Category | Sub Category | Icon |
| 61 | | Sports Activities | χ̈́ | 76 | • | Police Station | Q | 91 | | Photography | 棠 |
| 62 | | Sports Complex | T | 77 | Community | Post Office | | 92 | Service | Tax Service | 5005 0000 0000 0000 |
| 63 | | Golf Course | b | 78 | | Library | | 93 | | Medical Service | *************************************** |
| 64 | Recreation | Winery | D Y | 79 | | Court House | <u></u> | 94 | | Attorney | |
| 65 | Recreation | Video & Game Rental | | 80 | | Fire Department | 911 | 95 | | Funeral Director | |
| 66 | | Ski Resort | * | 81 | | Convention Center | | 96 | | Hair & Beauty | 4 |
| 67 | | Recreation Area | * | 82 | | City Hall | | 97 | | Cleaning & Laundry | |
| 68 | | Other Recreation | | 83 | | Civic Center | | 98 | | Social Service | WELFRRE |
| 69 | | Representation | (5) | 84 | | School | | 99 | | Physician | Ŧ |
| 70 | | Bank | (| 85 | | Government Offices | | 100 | | Communication | |
| 71 | Financial | ATM | CASH | 86 | | Waste & Sanitary | | 101 | | Tailor & Alteration | |
| 72 | Service | Check Cashing Service | Che <u>ck</u> | 87 | | Utilities | E S | 102 | | Mover | 4 |
| 73 | | Money Transfer | ¥ _€ | 88 | | Representation | Service | | | | |
| 74 | | Business Facility | | 89 | Service | Hospital | + | | | | |
| 75 | Community | Representation | | 90 | | Dentist | (*) | | | | |

Landmark icons

| No | Category | Sub Category | Icon |
|----|----------|--------------|------|
| 1 | Service | Airport | 本 |
| 2 | | Park | |
| 3 | | Golf | |
| 4 | | University | |

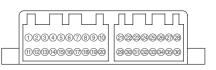
RSE Connector Pin Layout

Layout



| NO | Signal | NO | Signal |
|----|-------------|----|-------------|
| 1 | audio in R+ | 13 | audio in R- |
| 2 | audio in L+ | 14 | audio in L- |
| 3 | CAN_H | 15 | CAN_L |
| 4 | GND2 | 16 | GND2 |
| 5 | CVBS + in | 17 | CVBS GND |
| 6 | NC | 18 | NC |
| 7 | NC | 19 | NC |
| 8 | AutoLight | 20 | audio GND |
| 9 | ILL+ | 21 | ILL- |
| 10 | ACC | 22 | Altnate |
| 11 | B+ | 23 | GND |
| 12 | B+ | 24 | GND |

Rear DVD Player Connector Pin Layout



| NO | Signal | NO | Signal |
|----|----------------|----|------------------|
| 1 | ATSC _L+ | 19 | GND |
| 2 | ATSC_L- | 20 | Front out CVBS |
| 3 | front in L- | 21 | CVBS GND |
| 4 | front out R- | 22 | GND2 |
| 5 | front out L- | 23 | CAN_H |
| 6 | Monitor out L- | 24 | GND |
| 7 | Monitor out R+ | 25 | ACC |
| 8 | CVBS GND | 26 | ILL+ |
| 9 | GND2 | 27 | B+ |
| 10 | CVBS GND | 28 | B+ |
| 11 | front in R+ | 29 | Monitor out CVBS |
| 12 | front in R- | 30 | GND2 |
| 13 | front in L+ | 31 | CAN_L |
| 14 | front out R+ | 32 | ATSC_R+ |
| 15 | front out L+ | 33 | ATSC_R- |
| 16 | Monitor out L+ | 34 | ILL- |
| 17 | Monitor out R- | 35 | GND |
| 18 | Front out CVBS | 36 | GND |
| | | | |

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Microsoft ® Windows ® Automotive Operating System
Important Safety Information
Read and Follow Instructions

Before using your Windows Automotive-based system, read and follow all instructions and safety information provided in this end user manual ("User's Guide"). Not following precautions found in this User's Guide can lead to an accident or other serious consequences.

Keep User's Guide in Vehicle

When kept in the vehicle, the User's Guide will be a ready reference for you and other users unfamiliar with the Windows Automotive-based system. Please make certain that before using the system for the first time, all persons have access to the User's Guide and read its instructions and safety information carefully.

Warning:

Operating certain parts of this system while driving can distract your attention away from the road, and possibly cause an accident or other serious consequences. Do not change system settings or enter data non-verbally (using your hands) while driving. Stop the vehicle in a safe and legal manner before attempting these operations. This is important since while setting up or changing some functions you might be required to distract your attention away from the road and remove your hands from the wheel.

General Operation

Voice Command Control

Functions within the Windows Automotive-based system may be accomplished using only voice commands. Using voice commands while driving allows you to operate the system without removing your hands from the wheel.

MS

Prolonged Views of Screen

Do not access any function requiring a prolonged view of the screen while you are driving. Pull over in a safe and legal manner before attempting to access a function of the system requiring prolonged attention. Even occasional short scans to the screen may be hazardous if your attention has been diverted away from your driving task at a critical time.

Volume Setting

Do not raise the volume excessively. Keep the volume at a level where you can still hear outside traffic and emergency signals while driving. Driving while unable to hear these sounds could cause an accident.

Navigation Features

Any navigation features included in the system are intended to provide turn by turn instructions to get you to a desired destination. Please make certain all persons using this system carefully read and follow instructions and safety information fully.

Distraction Hazard

Any navigation features may require manual (non-verbal) setup. Attempting to perform such set-up or insert data while driving can seriously distract your attention and could cause an accident or other serious consequences. Stop the vehicle in a safe and legal manner before attempting these operations.

Let Your Judgment Prevail

Any navigation features are provided only as an aid. Make your driving decisions based on your observations of local conditions and existing traffic regulations. Any such feature is not a substitute for your personal judgment. Any route suggestions made by this system should never replace any local traffic regulations or your personal judgment or knowledge of safe driving practices.

MS

Route Safety

Do not follow the route suggestions if doing so would result in an unsafe or illegal maneuver, if you would be placed in an unsafe situation, or if you would be directed into an area that you consider unsafe. The driver is ultimately responsible for the safe operation of the vehicle and therefore, must evaluate whether it is safe to follow the suggested directions.

Potential Map Inaccuracy

Maps used by this system may be inaccurate because of changes in roads, traffic controls or driving conditions. Always use good judgment and common sense when following the suggested routes.

Emergency Services

Do not rely on any navigation features included in the system to route you to emergency services. Ask local authorities or an emergency services operator for these locations. Not all emergency services such as police, fire stations, hospitals and clinics are likely to be contained in the map database for such navigation features.

Use of Speech Recognition Functions

Speech recognition software is inherently a statistical process which is subject to errors. It is your responsibility to monitor any speech recognition functions included in the system and address any errors.

MAP AS HOTLINE

M & SOFT AMERICA MAP CENTER
TEL: 888-757-0010
WEBSITE: www.mapnsoft.com











