

DIGITAL NAVIGATION SYSTEM



DIGITAL NAVIGATION SYSTEM

User's Manual



User's Manual



Preface

Thank you for purchasing this Audio Navigation System.

This user's 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 this 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.

iPod®

iPod® is a registered trademark of Apple Inc.

Bluetooth®

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Kia is under license. A Bluetooth® enabled cell phone is required to use Bluetooth® wireless technology.



All Map Database cannot be copied without permission.
This is protected by U.S. copyright laws. All rights not expressly granted are reserved.
You may not otherwise reproduce, modify, and distribute the content without M&Soft, Inc's prior written consent.

Table of contents

PART 1 PRE-OVERVIEW

| | |
|-----------------------------------|-----|
| Introduction | 1-2 |
| Controller and functions | 1-3 |
| Basic operation and setting | 1-7 |

PART 2 AUDIO SYSTEM

| | |
|----------------------------------|------|
| Operating the radio | 2-2 |
| Operating the CD Player | 2-10 |
| Operating external devices | 2-22 |

PART 3 NAVIGATION SYSTEM

| | |
|---|------|
| Limitations of the navigation system | 3-2 |
| Map Functions | 3-5 |
| Setting a destination | 3-12 |
| Operating after setting a destination | 3-28 |
| Route guidance | 3-30 |
| Setup and Information | 3-36 |

PART 4 VOICE COMMAND SYSTEM

| | |
|---|-----|
| Operating voice command | 4-2 |
| Setting up the voice command system | 4-4 |
| Voice command list | 4-6 |

Table of contents

PART 5 Bluetooth® HANDS FREE

| | |
|---|------|
| Before using the Bluetooth® Handsfree | 5-2 |
| Converting Bluetooth® Handsfree mode | 5-2 |
| Pairing and connecting a Bluetooth® phone | 5-4 |
| Bluetooth® Handsfree screen layout | 5-9 |
| Making a call | 5-11 |
| Answering a call | 5-13 |
| Operating menus during a call | 5-14 |
| Phone Book | 5-16 |
| Call History List | 5-19 |
| Phone Music | 5-21 |
| Bluetooth® settings | 5-24 |
| Important information | 5-30 |

PART 6 HVAC MODE

| | |
|---|-----|
| Cautions upon operating HVAC mode | 6-2 |
| HVAC mode screen layout | 6-2 |
| HVAC System operations | 6-3 |

PART 7 REAR CAMERA

| | |
|-----------------------------------|-----|
| About Rear Detection Camera | 7-2 |
|-----------------------------------|-----|

PART 8 APPENDIX

| | |
|-----------------------------|-----|
| Troubleshooting guide | 8-2 |
| Map legend | 8-5 |
| INDEX | 8-8 |

PART 1 PRE-OVERVIEW

PART 1 PRE-OVERVIEW

| | | | |
|--|-----|--|------|
| Introduction | 1-2 | How to operate menu by voice command | 1-9 |
| Important information about this manual | 1-2 | Conditions for voice recognition system..... | 1-9 |
| Precaution for safe usage | 1-2 | Giving voice command | 1-10 |
| Controller and functions | 1-3 | Sound setting | 1-10 |
| Control panel | 1-3 | FAD/BAL | 1-10 |
| Steering wheel remote controller | 1-5 | BASS/MID/TREB | 1-11 |
| HVAC System | 1-6 | Auto volume control ON/OFF | 1-11 |
| Basic operation and setting | 1-7 | Touch screen beep ON/OFF | 1-11 |
| Turning the Power ON | 1-7 | Display setting | 1-11 |
| System Power ON | 1-7 | Display mode | 1-11 |
| Turning the Power OFF | 1-7 | Brightness | 1-11 |
| Turning the Audio ON/OFF | 1-7 | Display OFF | 1-11 |
| Adjusting audio volume..... | 1-8 | Display ON | 1-11 |
| How to operate the screen menu | 1-8 | Setting Picture Frame..... | 1-12 |
| Operating typical screen menu | 1-8 | Display Picture Frame | 1-12 |
| Inputting letter by using screen keyboard..... | 1-8 | Viewing Current Time | 1-12 |
| Displaying the list | 1-8 | Setting the Clock | 1-13 |
| Selecting an item in a list | 1-9 | | |
| Sorting items from list | 1-9 | | |

PART 1 PRE-OVERVIEW

Introduction

Important information about this 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 of or allows for more convenient use of the device.

Precaution for safe usage

WARNING!

- Do not operate the Audio Navigation system while driving.
- Do not disassemble, assemble, or modify the Audio 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 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 center.

- 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 key on the control panel.

Voice Command

This indicates an operation by voice command.

Controller and functions

Control panel



1 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 ~ 35.

2 FM/AM

Each press will change the bands in the following order: FM1 → FM2 → AM → FM1 ...

3 SAT

Each press will change the bands in the following order: SIRIUS1 → SIRIUS2 → SIRIUS3 → SIRIUS1 ...

4 MEDIA

Each press will change the bands in the following order: DISC(CD, MP3) → (USB or iPod) → (AUX) → (Phone Music) → DISC(CD, MP3)...

5 TUNE

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

PRE-OVERVIEW 1-3

PART 1 PRE-OVERVIEW

6 MAP VOICE

Displays the map screen for the current position.

7 DEST

Displays the displays setting screen.

8 ROUTE

Displays the Route menu screen.

9 SETUP

Displays the Setup menu screen.

10 PHONE

Displays the Bluetooth handsfree screen.

11 SEEK/TRACK Up/Down

- 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.

• iPod Mode : REW/FF the current playing song.

12 DISC eject

Ejects the inserted disc.

13 DISC insert indicator LED

Displays whether a DISC has been inserted.

i INFORMATION

If pressing and holding the **POWER/VOL** key for over 0.8 seconds does not shut down the system, press the **FM/AM** and **MAP VOICE** keys simultaneously for over 10 seconds to reset the software. The system power will shut-off and the system will restart.

Steering wheel remote controller



1 MODE

Each time the Mode key is pressed, the mode changes in the following order: FM1 → FM2 → AM → SIRIUS1 → SIRIUS2 → SIRIUS3 → (DISC) → (USB or iPod) → (AUX) → (Phone Music) → FM1 ...

If an unsupported DISC is inserted, if there is no disc, or if an external device (e.g. iPod, USB memory stick, etc.) has not been connected, the mode will not be recognized and automatically switch to the next mode.

- Press this key for over 0.8 second to turn the Audio ON and OFF.
- Press this key when the Power is turned off to turn the power on.
- 2 Volume Up/Down**
Increases or decreases the volume within a range between 0 ~ 35. Volume for navigation and voice guidance can be adjusted in the setup mode.
- 3 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 key is pressed. Once released, 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.
- 4 Voice Recognition**
Starts Voice Recognition.
- 5 CALL**
Press this key to receive an incoming call. If pressed while in Audio/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 terminated.

PART 1 PRE-OVERVIEW

HVAC System



- 1 FAN**
Sets the fan level.
- 2 CLIMATE**
Displays the general status of the HVAC system, such as temperature, outside temperature, fan mode, and fan level.
- 3 MODE**
Sets the fan direction.
- 4 A/C**
Turns the air conditioner ON/OFF.
- 5 FRONT**
Removes humidity and frost by blowing fan towards the front window.
- 6 REAR**
The rear window defroster is turned ON/OFF. When the defroster is operating, the light on the display window and at the top of the switch will turn on.
- 7 OFF**
Turns the HVAC system off.
- 8 REAR**
The rear window defroster is turned ON/OFF. When the defroster is operating, the light on the display window and at the top of the switch will turn on.
- 9 TEMP**
Raises or lowers the driver-side temperature.
- 10 AUTO**
Operates heating/cooling auto mode which maintains cabin temperature at suitable levels by using the outside temperature sensor. Once AUTO mode is operated, the light at the top of the switch will turn on.
- 11 TEMP**
Raises or lowers the passenger-side temperature.
- 12 DUAL**
Turns DUAL operation on or off. Upon turning on DUAL, the driver-side and passenger-side temperature can be operated independently.

Basic operation and setting

Turning the Power ON

1. 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 PUSH** knob to turn on the system power.



System Power ON

i 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 PUSH** knob is pressed. Consequently, the booting screen may not be displayed upon initially turning on the system power.



3. 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 PUSH** 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 PUSH** knob for under 0.8 second with the system power on to turn the Audio on and off.

🗣️ Voice Command

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

i INFORMATION

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

- Pressing the Audio related keys (**FM/AM**, **SAT**, **MEDIA**).
- Inserting a DISC or connecting an external device.

PRE-OVERVIEW 1-7

PART 1 PRE-OVERVIEW

Adjusting audio volume

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

i 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, the corresponding function will begin operation.
- 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 letter by using screen keyboard



ABC: Displays the English alphabet keypad.

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

0-9: Displays the number and symbol keypad.

Delete: Deletes the previously inputted letter. Pressing for over 0.8 second will delete all content.

Space: The input is completed.

↶: Restores to previous screen. The inputted text will not be saved.

Displaying the list



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

i INFORMATION

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

Selecting an item in a list



: Moves to the next page or previous page.

: The button will be displayed if the text is too long to be displayed in one button.

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 list



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

How to operate menu by voice command

Conditions for voice recognition system

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

- Close all windows and the sunroof. The voice recognition can be improved when in a 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.

PART 1 PRE-OVERVIEW

Giving voice command



1. Press the key 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.

2. Once 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 4-19.

INFORMATION

Press the key shortly to input the desired 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 button on the main screen of each Audio mode (FM/AM, SIRIUS, CD, MP3, USB, iPod and AUX) to display the Sound setting 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 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.

i 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.

Display setting

Press the **DISP** key on the control panel to display the Setup menu 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 OFF

Press the **Display Off** button.

Display ON

Press anywhere on the black screen. The screen prior to display setting will be displayed.

PART 1 PRE-OVERVIEW

Setting Picture Frame

Display Picture Frame

1. Press the **Picture Frame** button in the DISPLAY Setup screen.
2. Press the **My Image** button in the <Picture Frame> Setup screen.



3. The registered image will be displayed once power is turned off.

i INFORMATION

For Picture Frame setup, the frame must be set in USB Image mode. (For details on setting the Picture Frame, refer to the USB IMAGE page.)

4. To delete an image registered as a frame, press the **Delete Image** button.

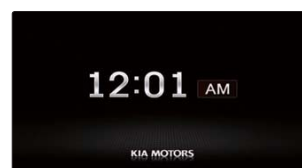
Viewing Current Time

Press the **CLOCK** on the front panel shortly (under 0.8 second) to display the current time at the center of the screen.



i INFORMATION

If the screen is turned off, selecting the **CLOCK** will display the current time on the entire screen.



Setting the Clock

Press and hold the **CLOCK** on the front panel (over 0.8 second) to display the Clock setting screen.



• Daylight Saving Time

Turns the Daylight Saving Time function on or off.

i INFORMATION

Clock setting mode can be displayed while the clock is displayed on the screen even when the system is turned off.

• GPS Time

The time received from the GPS will be displayed automatically.

• Clock Type

Selects the clock type shown as the entire screen when the system power is turned off.

• Time Format

When the clock type is digital, this button is used to convert the time between 12 hour/ 24 hour systems.

PART 2 AUDIO SYSTEM

PART 2 AUDIO SYSTEM

| | | | | | |
|--|------------|--|-------------|--------------------------------|------|
| Operating the radio | 2-2 | Operating the CD Player | 2-12 | MP3 screen and functions | 2-20 |
| Listening to the FM/AM radio | 2-2 | Precautions upon handling discs ... | 2-12 | Selecting to MP3 music | 2-21 |
| FM/AM screen and functions | 2-2 | For safe and efficient operation | 2-12 | REW/FF MP3 file | 2-22 |
| FM/AM Radio | 2-2 | About CD Player | 2-12 | Viewing detail information for | |
| Selecting FM/AM broadcast frequency | 2-3 | Supported disc formats | 2-13 | MP3 file | 2-22 |
| Storing FM/AM preset | 2-4 | Disc/Content format compatibility | 2-14 | Setting Repeat function for | |
| Scanning FM/AM broadcast frequency | 2-5 | Inserting a Disc | 2-15 | MP3 file | 2-22 |
| HD Radio Technology(if equipped) | 2-6 | Ejecting a Disc | 2-15 | Setting Random function for | |
| Starting HD Radio Mode | 2-6 | Inserting/Ejecting Disc | 2-15 | MP3 file | 2-22 |
| HD Radio Mode Screens and | | CD | 2-16 | Scanning MP3 file | 2-23 |
| Functions | 2-6 | Listening to CD music | 2-16 | | |
| Operating HD Radio Mode..... | 2-6 | CD screen and functions | 2-16 | | |
| HD Radio digital Broadcast On/Off ... | 2-7 | Selecting the CD track | 2-16 | | |
| XM radio | 2-8 | REW/FF CD track..... | 2-17 | | |
| Listening to the XM radio | 2-8 | Setting Repeat function for | | | |
| XM screen and functions | 2-8 | CD music..... | 2-17 | | |
| Switching the XM mode (Channel / | | Setting Random function for | | | |
| Category) | 2-9 | CD music..... | 2-17 | | |
| Selecting XM broadcast channel | 2-9 | Scanning CD track | 2-18 | | |
| Storing XM preset | 2-11 | MP3 disc related information and | | | |
| Scanning XM broadcast channel ... | 2-11 | precaution | 2-19 | | |
| | | Listening to MP3 music | 2-20 | | |

PART 2 AUDIO SYSTEM

| | | | |
|--|-------------|----------------------|------|
| Operating external devices | 2-24 | Connecting AUX | 2-33 |
| Connecting iPod devices | 2-24 | Playing AUX | 2-33 |
| iPod® | 2-24 | AUX screen | 2-33 |
| Listening to iPod music | 2-25 | AUX | 2-33 |
| iPod screen and functions | 2-25 | | |
| Selecting an iPod song | 2-26 | | |
| REW/FF iPod song | 2-27 | | |
| Setting Repeat function for iPod song | 2-27 | | |
| Setting Random function for iPod song | 2-27 | | |
| USB MP3 related information and precaution | 2-28 | | |
| Precautions upon handling USB | 2-28 | | |
| Connecting the USB | 2-30 | | |
| Listening to USB music | 2-30 | | |
| Starting USB IMAGE Mode | 2-31 | | |
| USB IMAGE mode menu screen configuration | 2-31 | | |
| Operating USB IMAGE Mode | 2-32 | | |


PART 2 AUDIO SYSTEM

Operating the radio


FM/AM Radio

Listening to the FM/AM radio



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

Voice Command

1. Press the  key 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>"

FM/AM screen and functions



- ① Mode display : Displays the FM1/FM2/ AM modes.
- ② 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.
- a **BAND** button : Changes the desired radio band. Each press will change the bands in the following order: FM1 → FM2 → FM1
 - b **TUNE Up/Down** button
 - 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.
 - c **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.
- f **Preset buttons** : The desired frequency can be preset and selected.
 - Q [Storing FM/AM presets], page 2-5.
 - g **R.Text** button : Turns the Radio Text information on and off.
- i INFORMATION**
- If the is on OFF state, text will not be displayed even if there is text being transmitted from the broadcast station.
- If the is on ON state, the frequency bar will not be displayed. Even if the is on ON state, text may not be displayed if text is not being received from the broadcast station.
- h **Scan** button : Scans all frequencies or just the preset frequencies for 5 seconds each.
 - Q [Scanning FM/AM broadcast frequency], page 2-5.
 - i **Sound** button : Adjusts the FAD/BAL, BASS/MID/TREB controls.
 - Q [Audio sound setting], page 1-11.

AUDIO SYSTEM 2-3

PART 2 AUDIO SYSTEM

Storing FM/AM presets

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

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

Voice Command

1. Press the key 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.

Voice Command

1. Press the key on the steering wheel remote controller.
 2. After the beep sound, say a command. "Preset Scan"
2. Press the button again to continue listening to a frequency. The scan will be terminated and the current frequency will continue to be played.

i INFORMATION

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

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.

i INFORMATION

- Press the **▲** or **▼** keys 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.

Voice Command

1. Press the **MC** key on the steering wheel remote controller.
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** or **TRACK** keys on the control panel or the **◀** or **▶** 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.

i INFORMATION

- Press the **SEEK** or **TRACK** keys on the control panel or the **▲** or **▼** keys on the steering wheel remote controller or the **◀** or **▶** 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** or **TRACK** keys on the control panel again will terminate SEEK operation and select the current frequency.

Voice Command

1. Press the **MC** key on 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 **◀** or **▶** buttons or turn the **TUNE** knob on the control panel in clockwise or counter-clockwise direction. Each click on the tune knob or the **◀** or **▶** buttons will increase or decrease the frequency by 1 step (FM: 0.2 MHz, AM: 10 kHz).

PART 2 AUDIO SYSTEM

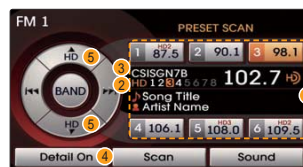
HD Radio Technology(if equipped)

Starting HD Radio Mode



1. Press the **FM/AM** key to turn on FM/AM mode. If an HD Radio broadcast is received radio mode will switch from analog broadcast to HD Radio broadcast.
2. Press the **FM/AM** key will convert the mode in the order of FM1 → FM2 → AM and convert to HD Radio broadcast once an HD Radio broadcast becomes received.

HD Radio Mode Screens and Functions



1. **Preset Button** – desired HD frequencies are saved for convenient frequency selection. Saves up to HD1~HD8 according to sub broadcasts.
2. **HD Broadcasting reception display** – Displays HD main, broadcast receiving from sub broadcast 1 ~ 8. The yellow indicates the currently playing sub broadcast.
3. **Broadcast station name**
4. **Detail On** – Displays detailed information for current broadcast. (Refer to page 00)
5. **HD sub broadcast move button** – Moves from HD main 1 broadcast to sub 8 broadcast.

i INFORMATION

HD Radio broadcasts simultaneously receive up to 8 different sub broadcasts for each channel, allowing users to listen to various broadcasts. Main 1 broadcast is a HD broadcast for the same broadcast contents as analog, while sub 2 ~ 8 are broadcasts of different contents.

Operating HD Radio Mode

- **Selecting a Frequency**



As HD Radio is included within Radio mode, the methods of moving between channels, saving presets, searching, or methods of searching frequencies are identical.

However, while the HD Radio is turned on, the HD Radio related icon display will become active when within regions where HD radio

can be received.

- Selecting frequency through Preset



This allows you to select previously saved HD Radio frequencies for broadcast.

1. Press the buttons with HD1~HD8 displayed above the preset button to listen to the corresponding HD Radio channel broadcast.

- Selecting frequency through TUNE

1. Select a channel receiving HD Radio broadcast automatically or manually and press the 00 button to move to the corresponding HD Radio channel sub broadcast.

i INFORMATION

For HD Radio broadcast channels without sub channels, the sub channels of sub numbers will be skipped to move only to channels which can be received.

- Storing a frequency to a preset button

- Storing Manually

This function allows you to manually save the desired sub broadcast frequency within the currently playing HD Radio broadcast channel. Method of saving is identical with the method of saving radio presets. After saving is complete, the HD Radio sub broadcast number will be displayed on above the frequency.

HD Radio Digital Broadcast On/Off

HD Broadcasts can be turned on and off for HD Radio FM and AM mode.

In Setup > Main setup screen, press the On/Off setting for the desired HD Radio mode.



PART 2 AUDIO SYSTEM

SIRIUS radio

Listening to the SIRIUS radio



1. Press the **SAT** key on the control panel. The Sirius radio band screen of the most recent listened station will be displayed.
2. Press the **SAT** key to change the desired radio band. Each press will change the bands in the following order: SIRIUS1 → SIRIUS2 → SIRIUS3 → SIRIUS1
3. Select the desired broadcast channel.
Q [Selecting SIRIUS broadcast channel], page 2-7.

Voice Command

1. Press the **Voice Command** key 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>"

SIRIUS screen and functions



- 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.

i INFORMATION

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

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

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

i INFORMATION

- Press the **▲** or **▼** keys 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.
Q [Storing SIRIUS presets], page 2-9.

PART 2 AUDIO SYSTEM

Voice Command

1. Press the **Voice** key on the steering wheel 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** or **TRACK** keys on the control panel or the **←** or **→** buttons on SIRIUS1, SIRIUS2, or SIRIUS3 mode screens for less than 0.8 second.
 The previous or next channel will be selected.

i 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** keys on the control panel or the **▲** or **▼** keys 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 **Voice** key on 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.

i 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.



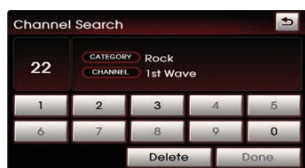
- If in category mode, the Category list screen will be displayed.
 Select the desired category button to display the channel list screen for the corresponding category.



2. 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.

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

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Channel<0 to 223>"

Storing SIRIUS presets

1. 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.

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

PART 2 AUDIO SYSTEM

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.

Voice Command

1. Press the **Voice** key on 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 **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Preset Scan"

2. Press the **Scan** button again to continue playing the channel.
The scan will be terminated and the current channel will continue to play.

i 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, octagon-shaped 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°C ~ 65°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.

AUDIO SYSTEM 2-13

PART 2 AUDIO SYSTEM

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 Type | Disc Media | Disc Format |
|-----------|-----------------|-------------|
| CD | CD | CD-DA |
| | CD-R | MP3 |
| | CD-RW | WMA |
| | Multisession-CD | DTS-CD |
| | | CD-ROM |
| | | CD-G |
| | | CD-EXTRA |
| | | CD-TEXT |

| Disc format | Audio format |
|-------------|---------------|
| CD | LPCM |
| | MPEG1, Layer3 |
| MP3 | 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-R CD-RW

- 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 multi-session 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.
 - his 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.

AUDIO SYSTEM 2-15

PART 2 AUDIO SYSTEM

Although this device supports low bit rate 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.

Inserting/Ejecting Disc**Inserting a Disc**

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  key.

The disc will immediately be stopped and ejected.

INFORMATION

- 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 music



1. Insert the CD or press the **MEDIA** key on the control panel if the CD is already inserted.

2. Select the desired track.

Q [Selecting the CD track], page 2-16.

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.

2. After the beep sound, say a command.

"DISC"

"CD"

"CD Track <1 to 665>"

CD screen and functions



1 Mode display : Displays that the current mode is CD mode.

2 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.

a **Play/Pause** button : Plays or pauses the current track.

b **REW/FF** button : REW or FF

Q [Selecting the CD track], page 2-17.

d **Previous/Next** button : Previous or next-track.

Q [REW/FF CD track], page 2-17.

f **Random** button : Plays the tracks on the disc in random order.

Q [Setting Random function for CD music], page 2-17.

g **Repeat** button : Repeats the current playing track.

Q [Setting Repeat function for CD music], page 2-18.

h **Scan** button : Scans all tracks on the disc for 10 seconds each.

Q [Scanning CD track], page 2-18.

i **Sound** button : Adjusts the FAD/BAL, BASS/MID/TREB controls.

Q [Audio sound setting], page 1-11.

AUDIO SYSTEM 2-17

PART 2 AUDIO SYSTEM

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** keys on the control panel or the **UP** or **DOWN** keys on the steering wheel remote controller or the **Left** or **Right** buttons on the screen for less than 0.8 second.

The next or previous track will begin playing.

INFORMATION

If the **SEEK** key on the control panel or the **UP** key on the steering wheel remote controller or the **Left** 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.

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.

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** or **TRACK** keys on the control panel or steering wheel remote controller or the **Left** or **Right** 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 → RANDOM OFF → RANDOM

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


Voice Command

1. Press the  key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Random"
Say "Normal Play" in order to terminate the set Random function.


Setting Repeat function for CD music

Press the  button. Each press will change the function in the following order:
REPEAT → REPEAT OFF → REPEAT
* REPEAT : repeats the current playing track.



Voice Command

1. Press the  key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Repeat Track"
Say "Normal Play" in order to terminate the set Repeat.

Scanning CD track

1. Press the  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  key on 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.
3. Press the  button again to continue listening to the track.
The scan will be terminated and the current track will continue to be played.

INFORMATION

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

PART 2 AUDIO SYSTEM

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 formats
- This device supports ISO9660 LEVEL1 and LEVEL2. Detailed specification is as below.
- Maximum directory layers: 8 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 **MEDIA** key on the control panel if the MP3 disc is already inserted.

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

Voice Command

- Press the **Voice** key on the steering wheel remote controller.
- After the beep sound, say a command.
 "DISC"
 "CD"
 "MP3"

MP3 screen and functions



- 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.
 - Play file position:** Current playing file / total files
 - Play time:** Displays the play time.
 - Folder name:** Displays the folder name.
 - File name:** Displays the file name.
- ▶ ||** button: Plays or pauses the current file.

- ◀ ▶** button: REW or FF.
 [REW/FF MP3 file], page 2-22.
- ◀ ▶** button: Previous or next track.
 [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.
- Scan** 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.
 [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** or **TRACK** keys on the control panel or the **▲** or **▼** keys on the steering wheel remote controller or the **◀** or **▶** buttons on the screen for less than 0.8 second.

The next or previous file will begin playing.

INFORMATION

If the **SEEK** key on the control panel or the **▲** key on the steering wheel remote controller or the **◀** 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

- Press the **Voice** key on the steering wheel remote controller.
- After the beep sound, say a command.
 "Next File"
 "Next Folder"
 "Previous File"
 "Previous Folder"

(b) Selecting 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 file. The current playing file will continue to be played.

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.

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.



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

REW/FF MP3 file

Press and hold the **SEEK** or **TRACK** keys on the control panel or the **▲** or **▼** keys on the steering wheel remote controller or the **◀** or **▶** 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

1. Press the **Info.** button.

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 file

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.

Voice Command

1. Press the **ⓧ** key on the steering wheel remote controller.

2. After the beep sound, say a command.

"Random"

"Random Folder"

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

3. Press 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.

AUDIO SYSTEM 2-23

PART 2 AUDIO SYSTEM

Setting Repeat function for MP3 file

1. Press the **Repeat** button.

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

Voice Command

1. Press the **ⓧ** key on the steering wheel remote controller.

2. After the beep sound, say a command.

"Repeat File"

"Repeat Folder"

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.

Scanning MP3 file

1. Press the **Scan** button.

- **SCAN** (less than 0.8 second) : Scans all files in the disc and plays for 10 seconds each.
- **FOLDER SCAN** (over 0.8 second) : Scans all files in the current folder for 10 seconds each.

Voice Command

1. Press the **ⓧ** key 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.

INFORMATION

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

Operating the external devices

MP3

iPod® is a registered trademark of Apple Inc.

Connecting iPod devices

Connect the iPod device as shown in the picture.

The Kia iPod Power cable is needed in order to operate iPod with the audio buttons on the audio system. The USB cable provided by Apple may cause malfunction and should not be used for Kia vehicles.

The Kia iPod Power cable maybe purchased through your Kia dealership.



- Unsupported iPod devices : iPod generations before iPod 3G, iPod Shuffle, and iPad.

⚠ CAUTION!

Some functions may not operate properly depending on the firmware version in some iPod or iPhone devices.

i INFORMATION

In order to prevent such malfunction, check the following before connecting your iPod or iPhone device with the Kia iPod Cable.

- If the battery has been completely discharged, charge the device for at least 10 minutes before connecting.
- Turn on the device before connecting.
- If the device is set to lock, release the lock before connecting.
- For iPhones, audio will not play if the audio system and BT are paired. Disconnect the pairing before connecting.

When there are no songs in the iPod or iPhone or if there is no response from the device after connecting with the Kia Cable, a "No Media Connected" pop-up message will be displayed for 5 seconds and the previous mode will automatically be restored.

In such cases, disconnect the iPod or iPhone and try connecting again.

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

⚠ 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.

AUDIO SYSTEM 2-25

PART 2 AUDIO SYSTEM

Listening to music from iPod



1. Connect the iPod or press the **MEDIA** key on the control panel if the iPod is already connected.

i 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.

🗣 Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command. "iPod"

iPod screen and functions



- 1 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.
- 7 **▶ ||** button: plays or pauses the current file.

- 8 **◀ ▶** button : REW or FF.
 [REW/FF iPod song], page 2-27.
- 9 **◀ ▶** button : previous or next file.
 [Selecting an iPod song], page 2-25.
- 10 **Random** button : plays all songs in the current playing list in random order or randomly in album unit.
 [Setting random function for iPod song], page 2-26.
- 11 **Repeat** buttons : repeats the current playing song.
 [Setting repeat function for iPod song], page 2-27.
- 12 **Info** button : converts to the search menu screen.
 [Viewing detailed information for iPod song], page 2-27.
- 13 **Menu** button : converts to the search menu screen.
 [Selecting an iPod song], page 2-25.
- 14 **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** or **TRACK** keys on the control panel or the **▲** or **▼** keys on the steering wheel remote controller or the **⏪** or **⏩** buttons on the screen for less than 0.8 second. The next or previous song will begin playing.

i INFORMATION

If the **TRACK** **▼** key the control panel or the **SEEK** **▼** key 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 **🗣️** key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Next Song"
"Previous Song"

(b) Selecting song 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 song. The current playing song will continue to be played.

i INFORMATION

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

2. 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.



2. Press the button for the desired search method.

i 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 | | |
| Genre | Genre | Artist | Album | Song |
| Artist | Artist | Album | Song | |
| Composer | composer | Album | Song | |
| Album | Album | Song | | |
| Audiobooks | Song | | | |
| Songs | Song | | | |
| Podcasts | Program | Episode | | |



3. 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** or **TRACK** keys on the control panel or the **▲** or **▼** keys on the steering wheel remote controller or the **⏪** or **⏩** 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

Press the **Random** button. Each press will change the function in the following order : Random → Album Random → Random Off → Random...

- **Album Random** : plays the song in the current play list randomly in album units. However, songs within the same album will be played sequentially.
e.g.) Album1(Music1 → Music2 → Music3 → ... → Music10) → Album5 (Music1 → Music2) → Album4 (Music1 → Music2 → Music3) ...
- **RANDOM** : Plays all files in the current play list in (All Songs, certain albums, or user designated iPod Playlists) randomly regardless of album.

🗣️ Voice Command

1. Press the **🗣️** key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Random"
"Random Album"
Say "Normal Play" in order to terminate the set Random.

Setting Repeat function for iPod music

1. Press the **Repeat** button.
Each press will change the function in the following order: REPEAT → REPEAT OFF → REPEAT
- REPEAT : Repeats the current playing song.

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Repeat Song"
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.

PART 2 AUDIO SYSTEM

USB MP3

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.
1. Only MP3 files with compression rates between 8kbps~320kbps are supported.
 2. Only WMA files with compression rates between 8kbps~320kbps are supported.
- Be cautious of static electricity when connecting/disconnecting the external USB device.

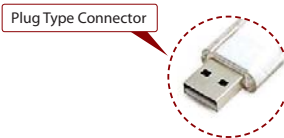
- Encoded MP3 Players will not be recognized when connected as the external device.
- When connecting an external USB device, the device may not properly recognize the USB when the USB is in some states.
- When formatting the external USB device, the device may not properly be properly recognize a Byte/Sector 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.
- 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 time to recognize the device.
- The device supports only USB devices used to play music files.
- 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 top-level 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.
- 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.

AUDIO SYSTEM 2-31

PART 2 AUDIO SYSTEM

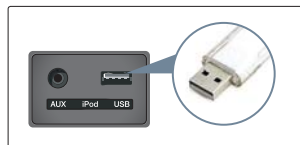
- The device may not support normal operation when using a USB memory type besides the Metal Cover Type USB Memory.
- The device may not support normal operation when using formats such as HDD Type, CF, or SD Memory.
- The device will not support files locked by DRM (Digital Rights Management).
- The 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. (i-stick 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.

Please make certain only to use plug type connector products as shown below.



Connecting the USB devices


Connect the USB as shown in the picture.



Listening to USB music




1. Connect a USB or press the **MEDIA** key on the control panel if the USB is already connected.

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

INFORMATION


The USB screen and operation method is the same with MP3 mode. Please refer to the MP3 mode section for more information.

Voice Command

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

Starting USB IMAGE Mode


Starting USB IMAGE Mode

1. The USB mode will automatically start when the USB is inserted. When in a different mode, repeatedly press the  key to convert to USB mode. (Each press will change in order of AUX → DISC → USB)

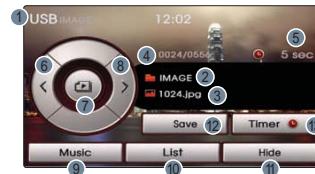



2. The image will be displayed on the screen.

INFORMATION

Press the  button on the bottom left side to enter either mode. (Supported only when compatible files exist within the USB)







USB IMAGE mode menu screen configuration



- 1 Mode display : display that the current mode is <USB Image> mode.
- 2 Folder name : displays the name of the folder where photo files are located.
- 3 File name : displays the file name of the current photo.
- 4 File index : displays the number of Image files within the USB (current file / all files)
- 5 Slide Show Interval : displays intervals of 5, 10, and 20 seconds.
- 6  button : displays the previous photo.
- 7 Slide Show View : displays photos in intervals of 5, 10, and 20 seconds.



AUDIO SYSTEM 2-33

PART 2 AUDIO SYSTEM


- 8  button : displays the next photo.
- 9 USB music(MP3) mode  button : converts to <USB Music> mode.
- 10  button : displays the <Image List> screen.
- 11  button : hides the button display.
- 12  button : upon turning off power, saves the current image as the frame screen image.
- 13  button : allows changes to slide show interval.

Operating USB IMAGE Mode


(a) Moving to next IMAGE

1. Press the screen.
2. Within the Image screen, press the  or  button to flip through each file.

(b) Displaying USB IMAGE Slideshow Interval

1. Repeatedly press the  button at the bottom to change the slideshow interval (converts in time intervals of 5 seconds → 10 seconds → 20 seconds → 5 seconds).






(c) Registering Frame

1. Press the  button at the bottom of the <Image> screen. The currently displayed image will be registered as the frame.

INFORMATION

For details on setting up the frame, refer to the frame setup page within Screen setup.

Restrictions while driving-Image Play related buttons cannot be used while the vehicle is in motion.

There are five buttons such as  /  /  /  /  >.

AUX

Connecting AUX

Connect the external Audio player as shown in the picture.



i INFORMATION

Connect only by using AUX terminals.

Playing AUX



Connect an AUX or press the **MEDIA** key on the control panel if the AUX is already connected.

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Line In"

AUX screen



Audio AUX screen

PART 3 NAVIGATION SYSTEM

PART 3 NAVIGATION SYSTEM

Limitations of the navigation

| | |
|----------------------------------|-----|
| system | 3-2 |
| GPS signal reception state | 3-2 |
| Vehicle position display | 3-3 |
| Route Guidance | 3-4 |
| Route Re-calculation | 3-4 |
| Starting navigation system | 3-5 |

Map Functions

| | |
|---|------|
| Current position map screen (without route) | 3-5 |
| Switching map mode (North Up / Heading Up) | 3-6 |
| Viewing GPS signal state | 3-7 |
| Changing the map scale | 3-8 |
| Displaying / Hiding POI icons on the map | 3-9 |
| Displaying/Hiding Q.POI icons | 3-9 |
| Displaying / Hiding icons other than Q.POI icons | 3-9 |
| Making a call to POI | 3-10 |
| Scrolling map | 3-11 |

Setting a destination

| | |
|---|------|
| Destination menu screen and functions ... | 3-12 |
| Searching a Destination | 3-13 |
| Searching an Address | 3-13 |
| Searching a Previous Destination | 3-17 |
| Searching an Intersection | 3-17 |
| Searching a POI | 3-20 |
| Searching from Address book | 3-24 |
| Searching for Emergency facilities ... | 3-25 |
| Searching your Home | 3-25 |
| Searching favorite places | 3-26 |
| Searching from MAP | 3-26 |
| Searching POI by local POI list | 3-26 |
| Operating after searching a destination ... | 3-27 |
| Changing destination position | 3-27 |
| Setting as Destination / waypoint | 3-27 |
| Adding to address book | 3-27 |

Operating after setting a destination ...

| | |
|-------------------------------|------|
| Starting Route Guidance | 3-28 |
| Route guidance screen | 3-28 |
| Selecting other route | 3-29 |

Route guidance.....

| | |
|--|------|
| Route menu screen and functions..... | 3-30 |
| Finishing route guidance (Delete Destination) | 3-30 |
| Route overview (View Entire Route) ... | 3-31 |
| Changing Route option | 3-32 |
| Editing waypoints | 3-32 |
| Deleting waypoints | 3-34 |
| Re-ordering waypoints | 3-34 |
| Setting detour distance | 3-35 |
| Setting avoid streets on route | 3-35 |

Setup and Information

| | |
|--|------|
| Setup menu screen and functions..... | 3-36 |
| Main setting | 3-37 |
| Setting keyboard for inputting letter ... | 3-37 |
| Setting voice command feedback ON/OFF | 3-37 |
| Setting Language | 3-37 |
| System information and update | 3-37 |
| Initializing system | 3-37 |
| Navigation setting | 3-38 |

**PART 3
NAVIGATION SYSTEM**

| | | | |
|--|------|---------------------------|------|
| Setting units (mile / km) | 3-38 | Traffic Setup | 3-52 |
| Setting arrival time and distance display..... | 3-38 | Traffic Information | 3-52 |
| Registering avoid area | 3-38 | Help..... | 3-54 |
| Editing avoid area | 3-40 | | |
| Deleting avoid area | 3-41 | | |
| Deleting all avoid areas | 3-41 | | |
| Setting Q,POI icons..... | 3-42 | | |
| Setting estimate travel time | 3-42 | | |
| My places setting | 3-43 | | |
| Registering new address in address book | 3-43 | | |
| Editing an address of address book ... | 3-45 | | |
| Deleting an address of address book | 3-46 | | |
| Deleting an address book | 3-47 | | |
| Registering home address | 3-48 | | |
| Deleting home address | 3-48 | | |
| Registering favorite place | 3-49 | | |
| Deleting favorite place | 3-50 | | |
| Voice guidance volume setting | 3-51 | | |
| Voice guidance volume control..... | 3-51 | | |
| Adaptive volume control ON/OFF..... | 3-52 | | |

PART 3 NAVIGATION SYSTEM

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 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.

PART 3 NAVIGATION SYSTEM

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 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).
- 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



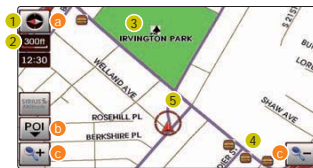
Press the Navigation mode key (MAP VOICE, DEST, ROUTE, SETUP). The Caution screen will always be displayed when first entering into Navigation mode. Read the contents of the caution screen carefully and press the Agree button.

Map Functions

Current position map screen (without route)



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



- 1 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 6-5.
- 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 6-5.
- 5 Current vehicle position icon : displays the current position of the vehicle.

PART 3 NAVIGATION SYSTEM

- 📏 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.
- 📍 POI : 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 → North Up → Heading Up ...

i INFORMATION

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.

🔊 Voice 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.

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



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 only two or less satellite signals can be received. Errors which occur in such conditions cannot be corrected.

PART 3 NAVIGATION SYSTEM

Changing the map scale





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

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 |

Voice 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

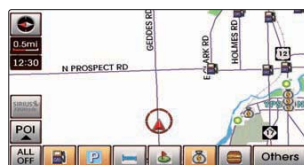
Displaying/Hiding Q.POI icons


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

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

INFORMATION

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

PART 3 NAVIGATION SYSTEM


(a) by category list




3. 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  button is pressed, the selected menus will be displayed or hidden on the map screen.

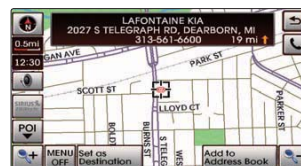
Voice Command

1. Press the  key on the steering wheel remote controller.
2. 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  button.



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



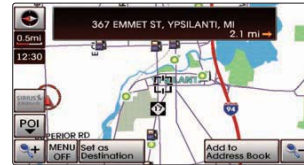
4. Once the call is ended, the map is restored to the current vehicle location.

i 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 **Q** [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.



i 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.

PART 3 NAVIGATION SYSTEM

Setting a destination

Destination menu screen and functions



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



- a** Address : sets the destination through address search.
Q [Searching an Address], page 3-13.
- b** Previous Dest : sets the destination through the previous destination list.
Q [Searching a Previous Destination], page 3-17.
- c** Intersection : sets the destination through intersection search.
Q [Searching an Intersection], page 3-17.
- d** POI Search : sets the destination through POI Category search.
Q [Searching a POI], page 3-20.
- e** Address Book : sets the destination through address book search.
Q [Searching from Address book], page 3-24.

- f** Emergency : sets the destination through emergency facilities search.
Q [Searching for Emergency facilities], page 3-25.
- g** HOME : sets the stored HOME as the destination.
Q [Searching your Home], page 3-25.
- h** Favorite place **1** ~ **5** : sets the destination with one of the stored favorite places.
Q [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.



3. 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.

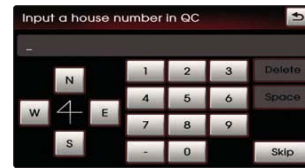


5. Select the desired state from the list to change the state.

(a) by street



6. Press the **Street** button.



PART 3 NAVIGATION SYSTEM

7. 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.



8. Input the Street name 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.



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

i 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.



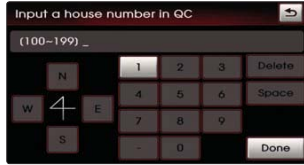
10. Input the city name and press the **List** button to complete. If the number of matches with the input is less than 4 results, then the list screen will be displayed automatically.



11. Select the desired city from the list.



12. This screen will be displayed if the House number had not been inputted during step 6 and more than 2 house numbers ranges exist. Select the desired House number range.



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

Input the House number and press the **Done** button to complete. The corresponding position will be displayed on the map.

(b) by city



6. Press the **City** button.

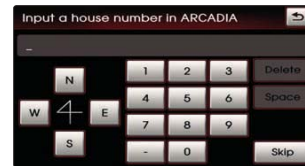


7. Input the city name and press and press the **List** button.

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



8. Select the desired city from the list.



PART 3 NAVIGATION SYSTEM

9. 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.



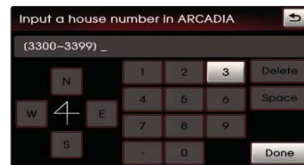
10. Input the Street name and press the **List** button to complete. If the number of matches with the input is less than 4 results, then the street list screen will be displayed automatically.



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



12. This screen will be displayed if the House number had not been inputted during step 8 and more than 2 House number ranges exist. Select the desired House number range.



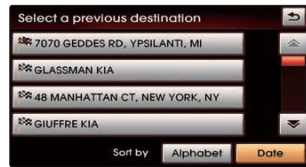
13. This screen will be displayed if the House number had not been inputted during step 9 and only one House number range exists. Select the house number range and Press the **Done** button to complete. The corresponding position will be displayed on the map.

Voice Command

1. Press the **V** key on the steering wheel remote controller.
2. After the beep sound, say a command. "Find address"
Q [Find address], page 5-19.

Searching a Previous Destination

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.

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command.
 - "Previous destination"
 - [Previous destination], page 5-24.
 - "Previous start point"
 - [Previous start point], page 5-25.

Searching an Intersection

There are two ways to set the destination through 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.



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.



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

PART 3 NAVIGATION SYSTEM

(a) by street



6. Press the **Street** button.



7. 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.



8. Select the desired 1st street from the list.



9. 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.



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



11. 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.

(b) by city



6. Press the **City** button.



7. 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.



8. Select the desired city name.



9. 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.



10. Select the desired 1st street menu from the list.



11. 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.

PART 3 NAVIGATION SYSTEM



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



13. 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.

Searching a POI

There are 3 ways to set the destination through POI search - (a) by category, (b) by name, (c) by phone number.

1. Press the **DEST** key.
2. Press the **POI Search** button.



3. Press the **State** button.



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 there is only one matching result, then the state will automatically be changed without having to manually select the state.



5. 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.



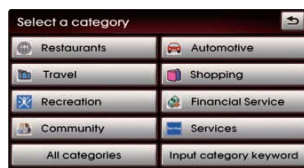
6. Press the **Category** button.



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

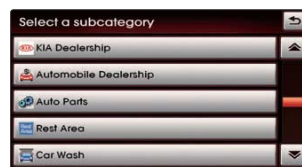
Searches for facilities within a 50 mi (80Km) radius of the current position.



8. 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 5-20.



9. Press the desired sub category menu.



10. Select the desired menu button.

The corresponding position will be displayed on the map.

PART 3 NAVIGATION SYSTEM

(a-2) Near city center

Searches for facilities from the city center.



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

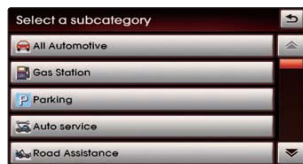
If the number of matches with the input is less than 4 results, then the city list screen will be displayed automatically.



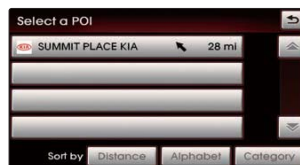
9. Press the desired city menu.



10. Press the desired main category.



11. Press the desired sub category.



12. Select the desired menu button.

The corresponding position will be displayed on the map.

INFORMATION

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

(b) By name



6. Press the **Name** button.



7. 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.



8. Select the desired POI menu.

The corresponding position will be displayed on the map.

INFORMATION

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



• Changing City

1. Press the **City** button.
2. Input the city name and press the **List** button.
3. Select the desired city name.

• Changing Category

1. Press the **Category** button.
2. Select the desired main category menu.
3. Select the desired sub category menu.

(c) By phone number



6. Press the **Phone #** button.

PART 3 NAVIGATION SYSTEM



7. Input the phone number and Press the **Done** button to complete. The corresponding position will be displayed on the map.

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command. "Destination POI by Phone Number"
📍 [Destination POI by phone number], page 5-22.

Searching from Address book

1. Press the **DEST** key.
2. Press the **Address book** button.



3. Select the desired address book (user) menu.

INFORMATION

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.

Voice Command

1. Press the **Voice** key on the steering wheel remote controller.
2. After the beep sound, say a command. "Destination by address book"
📍 [Destination by address book], page 5-24.

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.

Voice Command

1. Press the **VOICE** key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Find emergency <Category>"
📍 [Find emergency <Category>], page 5-23.

Searching your Home

1. Press the **DEST** key.
2. Press the **HOME** button.
The Home position will be displayed on the map.

INFORMATION

If the Home address is not registered, then the **HOME** button will not be displayed.
📍 [Registering home address], page 3-48.

Voice Command

1. Press the **VOICE** key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Go home"
📍 [Go home], page 5-25.

PART 3 NAVIGATION SYSTEM

Searching favorite places

1. Press the **DEST** key.
2. Select the desired button from **1** ~ **5**.
The corresponding position will be displayed on the map.

INFORMATION

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

Voice Command

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

Searching from MAP

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

Searching POI by local POI list

1. 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 **VOICE** key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Find nearest <POI name>"
📍 [Find nearest <POI name>], page 5-21.

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.


Voice Command

1. Press the  key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Start guidance"
(Sets the position of the scroll mark as the destination and begins route guidance.)

Adding to address book :

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

Voice 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>"



PART 3 NAVIGATION SYSTEM

Operating after setting a destination




Starting Route Guidance

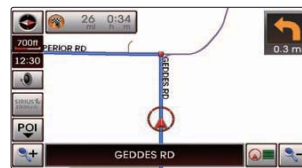
Press the  button. Route Guidance will start.


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

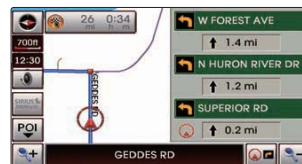
Voice Command


1. Press the  key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Time to destination"
"Distance to destination"

Route guidance screen




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



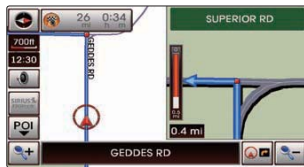
- Turn-List mode : if the  button is pressed, then the following route guidance screen will be displayed.



- Highway mode : if the  button is pressed, then the following route guidance screen will be displayed.



- 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.





- 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.

Selecting other route

1. Press the  button.



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

PART 3 NAVIGATION SYSTEM

Route guidance

Route menu screen and functions

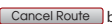


Press the **ROUTE** key on the control panel. The ROUTE menu screen will be displayed.



- a Cancel Route: deletes destination, waypoints and terminates route guidance.
 - Q [Finishing route guidance], page 3-30 .
- b Route Overview: displays the entire route and route detailed.
 - Q [Route overview], page 3-31 .
- c Route Option: the route option can be changed.
 - Q [Changing Route option], page 3-32 .
- d Edit Waypoint: waypoints can be added/ deleted and the order can be changed.
 - Q [Editing waypoints], page 3-32 .
- e Detour : searches detour routes.
 - Q [Setting detour distance], page 3-35 .
- f Avoid Streets: searches routes which avoid the selected streets.
 - Q [Setting avoid streets on route], page 3-35 .

Finishing route guidance (Delete Destination)

1. Press the **ROUTE** key.
2. Press the  button.



3. Press the  button.

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

- Q [Finishing route guidance], page 3-30 .

Voice 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)

1. Press the **[ROUTE]** key.
2. Press the **[Route Overview]** button.



3. Press the **[Turn by Turn]** button.

INFORMATION

If the **[Return to guidance]** button is pressed, route guidance screen is displayed.



4. The detailed route information can be viewed

PART 3 NAVIGATION SYSTEM

Changing Route option

1. Press the **[ROUTE]** key.
2. Press the **[Route Option]** button.



3. Press the button for the desired route guidance method.
Guidance will be restarted after recalculating the route with the selected guidance method.

Voice Command

1. Press the **[]** key on the steering wheel remote controller.
2. After the beep sound, say a command.
"Replan recommended route"
"Replan shortest 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.

(a) Searching POI lists near route



4. Press the **Near POI Lists on Route** button.



5. Select the desired category.

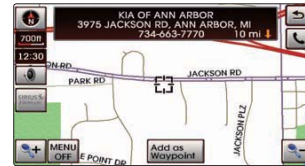


6. Select the desired sub category from list.



7. Select the desired POI from the list.

The corresponding position will be displayed on the map.



8. Press the **Add as Waypoint** button.



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

Guidance will restart after recalculating the route.

PART 3 NAVIGATION SYSTEM

(b) Using advanced Search

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

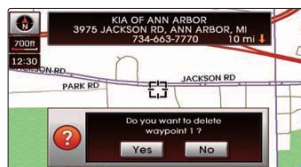
Q [Searching a Destination], page 3-13.

Deleting waypoints

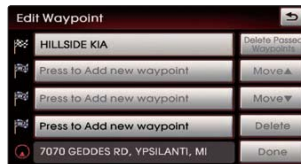
1. Press the **ROUTE** key.
2. Press the **Edit waypoint** button.



3. Select the waypoint and press the **Delete** button.



4. Press the **Yes** button.



5. After deleting, press the **Done** button to complete.

Guidance will restart after recalculating the route.

Re-ordering waypoints

1. Press the **ROUTE** key.
2. Press the **Edit waypoint** button.



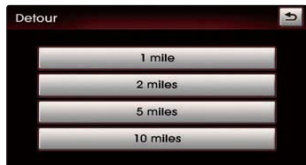
3. Select the desired waypoint and use the **Move** buttons to change the order.

4. Once 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 **Detour** button.



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

Voice Command

1. Press the **VOICE** 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

1. Press the **ROUTE** key.
2. Press the **Avoid streets** button.



3. Select the desired streets to avoid(**avoid**, **allow**) and press the **Done** button to complete.
Guidance will restarted after recalculating the route to avoid the selected streets.

PART 3 NAVIGATION SYSTEM

Setup and Information

Setup menu screen and functions



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



- a** Main button : changes to the input keyboard type, voice command feedback ON/OFF settings and system initialization can be made.
🔍 [Main setting], page 3-36 .
- b** Voice Setup button : adjusts the Navigation guidance volume.
🔍 [Voice guidance volume setting], page 3-51.
- c** Navigation button : navigation related settings can be set.
🔍 [Navigation setting], page 3-38 .
- d** Clock Setup button
- e** My Places button : the Address book, Home address, Favorite places, Previous destination can be edited.
🔍 [My places setting], page 3-43 .

f Help button : the help contents can be viewed. 🔍 [Help], page 3-54 .

g Traffic Setup : sets to display traffic information on map, or to provide upcoming traffic information voice guidance, and or to display the detour route popup showing upcoming traffic information.

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 ON/OFF

Press the desired setting button.

Setting Language

1. Press the **Change** button.



2. Press the desired language.



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

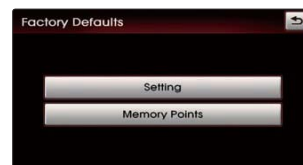
System information and update

1. Press the **System Info** button.



Initializing system

1. Press the **Factory Default** button.



2. Press the menu desired for initialization.

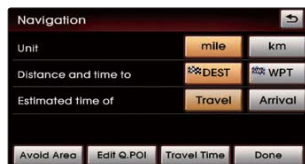


3. Press the **Yes** button

PART 3 NAVIGATION SYSTEM

Navigation setting

1. Press the **SETUP** key.
2. Press the **Navigation** button.



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

Setting units (mile/ km)

Select the desired distance unit.

Setting arrival time and distance display

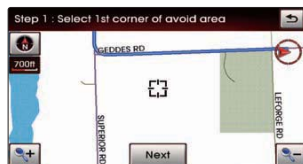
Select the desired setting button.

Registering avoid area

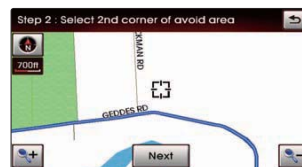
1. Press the **Avoid Area** button.



2. Press the **Add new avoid area** button.



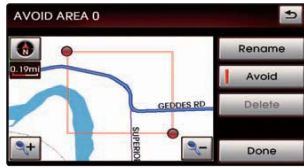
3. Set the start position of the avoid area and press the **Next** button.



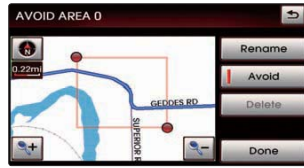
4. Set the end position of the avoid area and press the **Next** button.





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



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



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



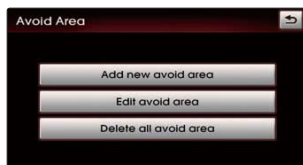
9. Press the **Done** button to complete the setting.

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

PART 3 NAVIGATION SYSTEM

Editing avoid area

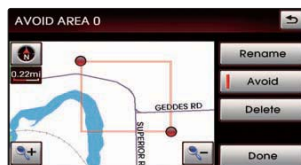
1. Press the **Avoid area** button.



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.

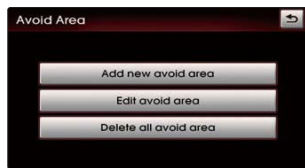


6. Each time the **Avoid** button is pressed, the function will switch between avoid () or allow ().

7. Press the **Done** button once editing is complete.

Deleting avoid area

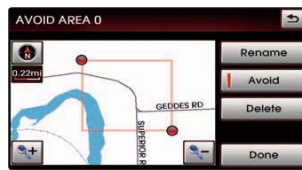
1. Press the **Avoid area** button.



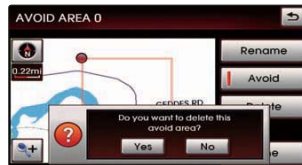
2. Press the **Edit avoid area** button.



3. Select the **Avoid area** button to delete.



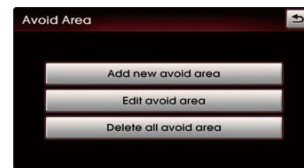
4. Press the **Delete** button.



5. Press the **Yes** button.

Deleting all avoid areas

1. Press the **Avoid area** button.



2. Press the **Delete all avoid area** button.



3. Press the **Yes** button.

PART 3 NAVIGATION SYSTEM

Setting Q.POI icons

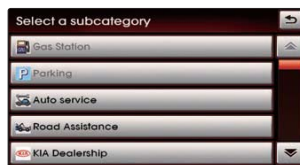
1. Press the **Edit Q.POI** button.



2. Select the desired menu.



3. Select the desired category.



4. Select the desired sub category.



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

i INFORMATION

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

Setting estimate travel time

1. Press the **Travel Time** button.



2. Press 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.

3. 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.
2. 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.



5. Input the name and telephone information and press the **Done** button to complete. [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.

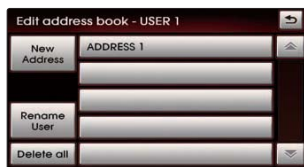


3. Press the **Address Book** button.



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

PART 3 NAVIGATION SYSTEM



5. Press the **New Address** button.



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

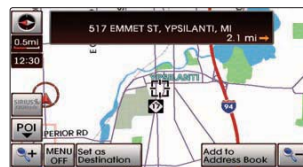
INFORMATION

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

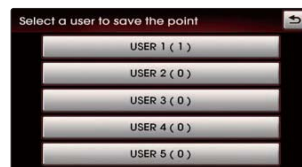
7. Input the name and telephone information and press the **Done** button to complete. [Editing an address of address book], page 3-45.

(c) from map scroll

1. In the map screen, scroll the map to the desired position.



2. Press the **Add to Address Book** button.



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

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

Editing an address of address book

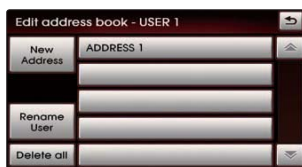
1. Press the **SETUP** key.
2. Press the **My Places** button.



3. Press the **Address Book** button.



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



5. Select the desired address to edit.



6. Press the **Name** button to input the address name.



7. Input the address name and press the **Done** button to complete.



8. 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.

INFORMATION

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

PART 3 NAVIGATION SYSTEM

9. Press the **Phone** button to input the phone number.



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



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

Deleting an address of address book

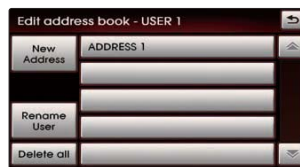
1. Press the **SETUP** key.
2. Press the **My Places** button.



3. Press the **Address Book** button.



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



5. Select the desired address button to delete.



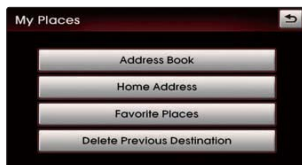
6. Press the **Delete** button.



7. Press the **Yes** button.

Deleting an address book

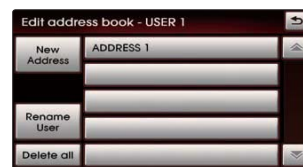
1. Press the **SETUP** key.
2. Press the **My Places** button.



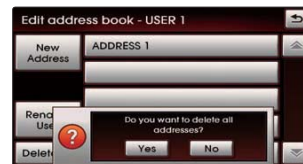
3. Press the **Address Book** button.



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



4. Press the **Delete all** button.



5. Press the **Yes** button.

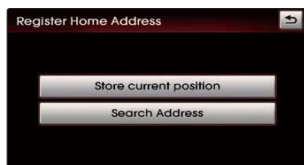
PART 3 NAVIGATION SYSTEM

Registering home address

1. Press the **SETUP** key.
2. Press the **My Places** button.



3. Press the **Home Address** button.



4. Press the **Search** button.

INFORMATION

Press the **Store current position** button to register the current position as Home.

5. Search the address.

The process is the same method as searching an address.

[Searching an Address], page 3-13.



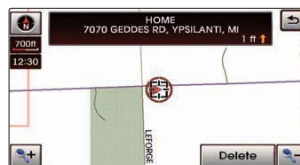
6. Press the **Done** button to complete.

Deleting home address

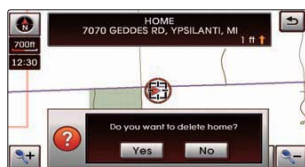
1. Press the **SETUP** key.
2. Press the **My Places** button.



3. Press the **Home Address** button.



4. Press the **Delete** button.



5. Press the **Yes** button.

Registering favorite place

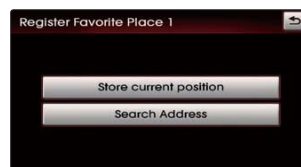
1. Press the **SETUP** key.
2. Press the **My Places** button.



3. Press the **Favorite Places** button.



4. Press the number of the Favorite Place to register.



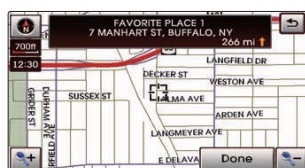
5. Press the **Search** button.

i 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.](#)

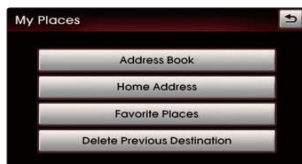
PART 3 NAVIGATION SYSTEM



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

Deleting favorite place

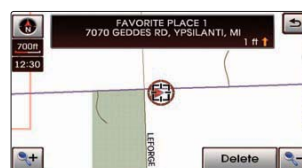
1. Press the **SETUP** key.
2. Press the **My places** button.



3. Press the **Favorite Places** button.



4. Select the desired favorite place button to delete.



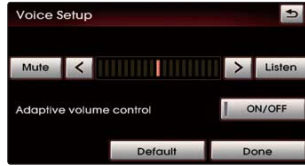
5. Press the **Delete** button.



6. Press the **Yes** button.

Voice guidance volume setting

1. Press the **SETUP** key.
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.

Voice 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.

Voice Command

1. Press the **□** key on the steering Wheel remote controller.
2. After the beep sound, say a command.
"Voice Guidance On"
"Voice Guidance Of"

Adaptive volume control ON/OFF

- Press the desired setting button.

INFORMATION

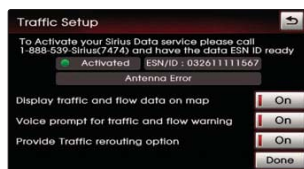
Adaptive Volume Control

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.

PART 3 NAVIGATION SYSTEM

Traffic Setup

1. Press the **SETUP** key.
2. Press the **Traffic Setup** button.
3. Select the desired changes and press the **Done** button.

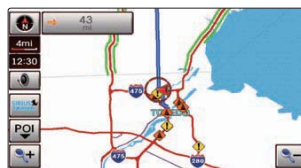


INFORMATION

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

Traffic Flow INFORMATION

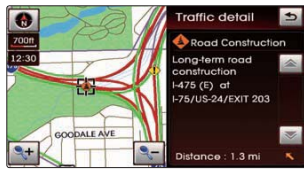
| | |
|--|---|
| | Normal, Free Flowing (46 mph ~) |
| | Moderate Congestion (26 ~ 45 mph) |
| | Heavy Traffic, Stop and Go (0 ~ 25 mph) |
| | Road Construction |
| | Accident |
| | Congestion/Slow Traffic |
| | Incident |
| | Hazardous Road Conditions |
| | Travel Information |

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.



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



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.

(b) Changing Traffic Category



1. Press the **Advanced** button.

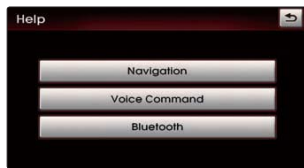
PART 3 NAVIGATION SYSTEM

Help

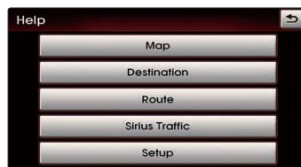
1. Press the **SETUP** key.



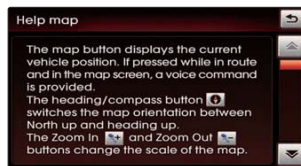
2. Press the **Help** button.



3. Press the **Navigation** button.



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.

**PART 4
VOICE COMMAND SYSTEM**

| | | | |
|--|------------|-----------------------------------|------|
| Operating voice command | 4-2 | Command list of Phone | 4-13 |
| Condition for voice command system | 4-2 | Command list of Navigation system | 4-14 |
| Basic operation for voice command control | 4-2 | Map | 4-13 |
| Voice command help | 4-3 | Destination | 4-15 |
| | | Route | 4-16 |
| | | Others | 4-17 |
| | | POI Category list | 4-18 |
| Setting up the voice command system | 4-4 | Searching a destination by | |
| Setting voice Prompt ON/OFF | 4-4 | voice command | 4-19 |
| Speaker adaptation | 4-4 | Find address | 4-19 |
| | | Find nearest POI | 4-20 |
| | | Find nearest <POI name> | 4-21 |
| | | Destination POI by phone | |
| | | number | 4-22 |
| | | Find emergency <Category> | 4-23 |
| | | Destination by address book | 4-24 |
| | | Previous destination | 4-24 |
| | | Previous start point | 4-25 |
| | | Go home | 4-25 |
| | | Destination by memory point | |
| | | <1 to 5> | 4-25 |
| Voice command list | 4-6 | | |
| Command list of Help | 4-6 | | |
| Command list of Audio system | 4-7 | | |
| FM/AM Radio | 4-7 | | |
| SIRIUS Radio | 4-8 | | |
| CD | 4-9 | | |
| MP3 | 4-10 | | |
| MP3 MP3 | 4-11 | | |
| USB Image | 4-12 | | |
| iPod | 4-12 | | |
| Others | 4-12 | | |

PART 4 VOICE COMMAND SYSTEM

Operating voice command

Condition for voice command system

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

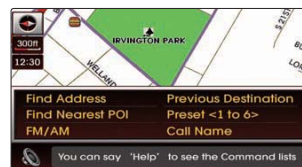
- Close all windows and the sunroof. The performance of the voice recognition can be improved if the environment of the car interior is quiet.
- Press the voice recognition button and say the desired voice command after the sound of the beep.
- The microphone is positioned above the driver so that voice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

Basic operation for voice command control



1. Press the key 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.



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



2. Once 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.

i INFORMATION
Press the key shortly to input a voice command from among the system voice comments. The system voice instruction comment will immediately terminate.


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



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


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

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  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  key 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.

INFORMATION

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

2. Once 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.

INFORMATION

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.



3. Say the name of the desired menu. (ex: "Destination help")




4. Say the desired voice command.



PART 4 VOICE COMMAND SYSTEM

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  key on the Steering wheel remote controller.

2. Once 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".

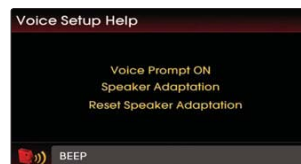
INFORMATION



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.

Speaker adaptation



1. Press the  key on the Steering wheel remote controller.

2. Once 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.



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






4. Once the  icon changes into the  icon 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 adaptation.

1. Press the  key on the Steering wheel remote controller.



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

PART 4 VOICE COMMAND SYSTEM











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.

Command list of Help

| 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> (ex. AM frequency 1310) | Plays the desired AM band frequency. |
| ☒ FM frequency <87.5 to 107.9> (ex. FM frequency 99.1) | Plays the desired FM band frequency. |
| ☒ 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. |
| ☒ 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. |
| ☒ Seek Down | Searches and plays the previous frequency of the current band. |
| ☒ Preset Up | Plays the next preset frequency of the current band. |
| ☒ Preset Down | Plays the previous preset frequency of the current. |
| ☒ Scan | Scans all frequencies within the current band. |
| ☒ Preset Scan | Scans the 6 preset frequencies of the current band. |

VOICE COMMAND SYSTEM 4-7

PART 4 VOICE COMMAND SYSTEM**SIRIUS Radio**

| Command | 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. |
| ☒ Channel < 0 to223 > | Plays the desired channel of the current band. |
| ☒ Preset <1 to 6> | Plays the desired preset channel of the current band. |
| ☒ Channel Up | Plays the next channel of the current band. |
| ☒ Channel Down | Plays the previous channel of the current band. |
| ☒ Preset Up | Plays the next preset channel of the current band. |
| ☒ Preset Down | Plays the previous preset channel of the current band. |
| ☒ Scan | Scans all channels within the current band. |
| ☒ Preset Scan | Scans all preset channels within the current band. |

CD

| Command | Operation |
|-----------------------|--|
| ☒ DISC | Plays the DISC already inserted in the CD Player. |
| ☒ CD | If the DISC inserted in the CD Player 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 CD Player is a CD, then CD Mode will start and plays the desired track. |
| ☒ Track <1 to 665> | Plays the desired track. |
| ☒ Next track | Plays the next track. |
| ☒ Previous track | Plays the previous track. |
| ☒ Scan | Scans all tracks on the CD. |
| ☒ Repeat track | Repeats the current playing track. |
| ☒ Random | Plays the tracks of the CD in random order. |
| ☒ 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. |

PART 4 VOICE COMMAND SYSTEM**MP3**

| 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. |
| ☒ Next file | Plays the next file. |
| ☒ Previous file | Plays the previous file. |
| ☒ Next folder | Plays the first file in the next folder. |
| ☒ Previous folder | Plays the first file in the previous folder. |
| ☒ Scan | Scans all files within the MP3 DISC. |
| ☒ 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. |
| ☒ Repeat Folder | Repeats all tracks within the current playing folder. |
| ☒ Random | Plays all files within the MP3 DISC in random order. |
| ☒ Random Folder | Plays all files within the current playing folder in random order. |
| ☒ Normal play | Turns off the Scan, Repeat, and Random functions. |
| ☒ Pause | Pauses the MP3 DISC. |
| ☒ Play | The command will only be enabled when the MP3 DISC is paused. |

USB MP3

| Command | Operation |
|-------------------|---|
| ☒ USB | If the USB has been connected to the device, plays the MP3 files within the USB. |
| ☒ Next file | Plays the next file. |
| ☒ Previous file | Plays the previous file. |
| ☒ Next folder | Plays the first chapter of the next folder. |
| ☒ Previous folder | Plays the first chapter of the previous folder. |
| ☒ 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. |
| ☒ Repeat File | Repeats the current playing file. |
| ☒ Repeat Folder | Repeats all songs within the current playing folder. |
| ☒ Random | Plays all files within the USB in random order. |
| ☒ Random Folder | Plays all files within the current playing folder in random order. |
| ☒ Normal play | Turns off the Scan, Repeat, and Random functions. |
| ☒ Pause | Pauses the USB. |
| ☒ Play | The command will only be enabled when the USB is paused. |

PART 4 VOICE COMMAND SYSTEM**USB Image**

| Command | Operation |
|-------------------|--|
| ☒ USB | If the USB IMAGE has been connected to the device, plays the image files within the USB. |
| ☒ Next Image | Moves to the next Image. |
| ☒ Previous Image | Moves to the previous Image. |
| ☒ Next folder | Moves to the next folder. |
| ☒ Previous folder | Moves to the previous folder. |

iPod

| Command | Operation |
|-----------------|---|
| ☒ iPod | Plays the songs within the iPod if the iPod has been connected to the device. |
| ☒ Next song | Plays the next song. |
| ☒ Previous song | Plays the previous song. |
| ☒ Repeat song | Repeats the current playing song. |
| ☒ Random | Plays all songs within the iPod in random order. |
| ☒ Random Album | Plays all songs within the current playing album in random order. |
| ☒ Normal play | Turns off the Repeat and Random functions. |
| ☒ Pause | Pauses the iPod. |
| ☒ Play | The command will only be enabled when the iPod is paused. |

Others

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

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 select a number from the outgoing, incoming, and missed calls. |

PART 4 VOICE COMMAND SYSTEM**Command list of navigation system**


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

Map

| | 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> | Displays the map in the corresponding zoom. |
| | 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) | |

| Command | Operation |
|----------------------------------|---|
| ☒ North up | Displays the map in North Up mode. |
| ☒ Heading up | Displays the map in Heading Up mode. |
| ☒ Show <POI name> (ex. Show ATM) | Displays the selected POI categories.  [POI Category list], page 4-18. |
| ☒ Hide <POI name> (ex. Hide ATM) | Hides the selected POI categories.  [POI Category list], page 4-18. |
| ☒ Hide all | Hides all POI categories. |
| ☒ Daylight mode | Converts the map display into daylight mode. |
| ☒ Night mode | Converts the map display into night mode. |
| ☒ Auto mode | Converts the map display is between daylight/night modes automatically. |

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

PART 4 VOICE COMMAND SYSTEM

| Command | Operation |
|--|--|
| ☒ 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 |

Route

| 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. |
| ☒ 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. |
| ☒ Start guidance | Sets the scroll mark displayed on the map as the destination and starts route guidance. |

Others

| | 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) | Registers the selected location into the selected Address book. |




PART 4 VOICE COMMAND SYSTEM☒ **POI Category list**

| | | | |
|----------------------------|-----------------------|------------------------------|------------------------|
| 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 restaurant | Tourist Attraction | Cinema | Waste & Sanitary |
| Chinese restaurant | City Cnter | 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 | Electronics 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 command

Find address

Sets the destination through address search for route guidance.

1. Press the  key 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.



5. Say the city name.



6. Say the street name.



7. Say the House number.

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

8. 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.

VOICE COMMAND SYSTEM 4-19

PART 4 VOICE COMMAND SYSTEM

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 state, city, street names" 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.

Find nearest POI

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

1. Press the  key 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 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".



6. 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.

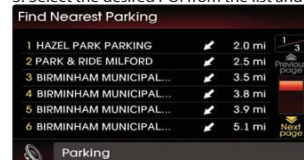
Find nearest <POI name>

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

1. Press the key 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 nearest Parking".

3. Select the desired POI from the list and



say the line number for the corresponding menu.
e.g) "Line 2".

PART 4 VOICE COMMAND SYSTEM



4. 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.

1. Press the key on the Steering 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".



3. Input the 10 numbers for the phone number.

INFORMATION

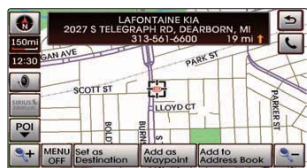
Continuous recognition of phone numbers is possible, and the recognized result will be displayed in block units. To correct a block unit, say "correct". To delete the entire result, say "delete". To have the input read back, say "repeat".



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



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



6. 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 emergency <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.

1. Press the key on the Steering wheel remote controller.
2. Once 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.

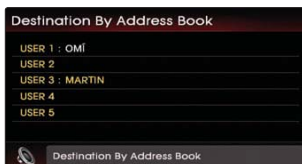
4. Say "Start guidance" if guidance to the selected position is desired, or say "Show map" to verify the location of the selected position on the map.

PART 4 VOICE COMMAND SYSTEM

Destination by address book

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

1. Press the key on the Steering wheel remote controller.
2. Once the icon changes into the icon on the pop-up screen with a beep sound, say "Destination by address book".



3. 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.

Previous destination

Sets one of the previous destination as the current destination.

1. Press the key 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.



Destination by memory point <1 to 5>
Sets a previously registered memory point as the destination for route guidance.

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

4. 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.

3. 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 key 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".

Go home

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

1. Press the key on the Steering wheel remote controller.
2. Once the icon changes into the icon on the pop-up screen with a beep sound, say "Go home".

PART 5 BLUETOOTH® HANDSFREE

**PART 5
BLUETOOTH® HANDSFREE**

Before using the Bluetooth®

Handsfree 5-2
 What is Bluetooth®? 5-2
 Functions supported by Bluetooth® Handsfree 5-2

Converting Bluetooth® Handsfree mode 5-2

Converting from Audio/Navigation mode to Bluetooth® Handsfree mode 5-2
 Converting from Bluetooth® Handsfree mode to Audio/Navigation mode ... 5-3

Pairing and connecting a Bluetooth® phone 5-4

Pairing a mobile phone 5-4
 Deleting a paired phone 5-6
 Connecting a mobile phone 5-7
 Disconnecting a mobile phone 5-8

Bluetooth® Handsfree screen

layout 5-9
 Bluetooth® Handsfree screen and functions 5-9
 When there is no mobile phone connected 5-9
 When a mobile phone is connected ... 5-9
 When receiving an incoming call 5-10
 When already on a call 5-10
 When there is a call waiting 5-10

Making a call 5-11

Making a call by dialing a phone number 5-11
 Making a call from Speed Dial 5-11
 Making a call by redialing 5-12

Answering a call 5-13

Answering an incoming call 5-13
 Rejecting an incoming 5-13

**PART 5
BLUETOOTH® HANDSFREE**

| | | | |
|--|-------------|--|-------------|
| Operating menus during a call | 5-14 | Bluetooth® settings | 5-24 |
| Switching call to the mobile phone | 5-14 | Pairing and connecting a mobile phone | 5-24 |
| Activating Call waiting | 5-14 | Setting mobile phone auto connect priority | 5-24 |
| Ending a call | 5-15 | Setting Handsfree volume | 5-25 |
| Phone Book | 5-16 | Setting Audio streaming | 5-26 |
| Making a call from the Phone book | 5-16 | Advanced settings | 5-26 |
| Searching the Phone Book | 5-17 | Searching and modifying my device properties | 5-27 |
| Searching by name | 5-17 | Changing passkey | 5-28 |
| Searching by number | 5-18 | Deleting all paired phones | 5-28 |
| Call History List | 5-19 | Initializing Bluetooth® handsfree | 5-29 |
| Making a call from Call history | 5-19 | Important information | 5-30 |
| Sorting call history | 5-19 | About pairing mobile phones | 5-30 |
| Phone Music | 5-21 | About making/answering phone calls | 5-31 |
| Before playing Phone Music | 5-21 | About Bluetooth® device environment ... | 5-31 |
| Starting Phone Music | 5-21 | | |
| Phone Music screen layout | 5-22 | | |
| Selecting Phone Music files | 5-23 | | |

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 hands-free calls, transmit mobile phone data, and play audio streaming files by connecting a mobile phone with the system.



Bluetooth® is a trademark owned by Bluetooth® SIG, Inc.

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 Audio/Navigation mode to Bluetooth® Handsfree mode



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



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



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

Converting from Bluetooth® Handsfree mode to Audio/Navigation mode



1. While in Bluetooth® Handsfree mode, press an Audio/Navigation mode key, such as **FM/AM** or **MAP VOICE**.



2. The corresponding mode will be displayed.

i INFORMATION

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

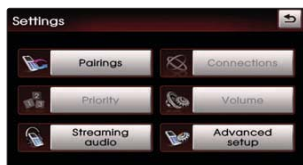
PART 5 BLUETOOTH® HANDSFREE

Pairing and connecting a Bluetooth® phone

Pairing a mobile phone



1. Press the **Settings** button on the PHONE screen.



2. Press the **Pairings** button on the Settings screen.



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

i 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 SPORTAGE.

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

i 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.

6. 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.

i INFORMATION

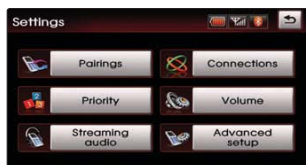
Some functions may not be supported due to limited Bluetooth® compatibility between the car system and mobile phone.

PART 5 BLUETOOTH® HANDSFREE

Deleting a paired phone



1. Press the **Settings** button on the PHONE screen.



2. 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.



4. A 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.

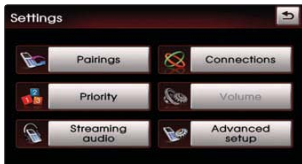
CAUTION!

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.

i INFORMATION

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



6. If 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

Disconnecting 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 disconnect from the list and press the **Disconnect** button.



4. A pop-up asking whether you wish to disconnect the mobile phone will be displayed. Press the **Yes** button to disconnect the mobile phone and the **No** button to cancel.

Bluetooth® Handsfree screen layout

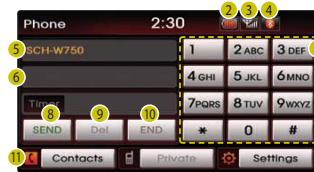
Bluetooth® Handsfree screen and functions

When there is no mobile phone connected



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

When a mobile phone is connected



- 2 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.
- 3 Signal strength : Displays the mobile phone signal strength. The signal strength may not be displayed in some mobile phones.
- 4 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.

- 6 Phone number input window : Displays the inputted phone number.
- 7 Dial : Input the phone number through the dial pad.
- 8 SEND : If a number has not been entered the phone number input window, pressing the send button displays the call history list screen.
- 9 Del : Deletes the inputted number one digit at a time.
- 10 END : If a number has been inputted, then erases the entire number.
- 11 Contacts : Displays the phone book screen. The user can search previously saved phone numbers. The phone contact list may not be displayed in some mobile phones.

BLUETOOTH® HANDSFREE 5-9

PART 5 BLUETOOTH® HANDSFREE

When receiving an incoming call



- 12 Accept : Accepts the incoming call.
- 13 Reject : Rejects the incoming call.

When already on a call



- 14 Busy icon : When already on a call, displays an icon shaped like a receiver.
- 15 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.
- 16 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.
- 19 Private : When talking on the car handsfree, use this function to switch the call to the mobile phone.

- 20 Mute : Use this function to mute the outgoing volume. Pressing the Mute button will display the Mute icon 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



- 21 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 phone 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.

i INFORMATION

To 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.

Making a call from Speed Dial



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

i 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.

BLUETOOTH® HANDSFREE 5-11

PART 5 BLUETOOTH® HANDSFREE



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

i INFORMATION

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

Making a call by redialing



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

i 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.

i INFORMATION

It is not possible to display the AUDIO 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 call



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




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

Rejecting an incoming



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



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

i INFORMATION


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

PART 5 BLUETOOTH® HANDSFREE

Operating menus during a call

Switching call to the mobile phone




1. If 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.

i 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.

Activating Call waiting



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



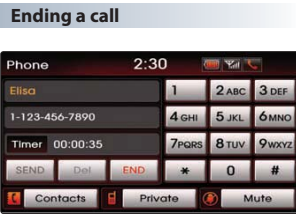
2. Press the need screen with **Accept** button or the  key on the steering wheel to receive the incoming call by switching to the new caller.



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.

i INFORMATION

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



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



2. The call will be ended.

PART 5 BLUETOOTH® HANDSFREE

Phone Book

Making a call from the Phone book



1. Press the **Contacts** button on the PHONE screen.



2. The phone book list will be displayed.

i 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 (Maximum 1000 entries). The phone book download function may not be supported in some mobile phones.
- If you do not wish to automatically download the mobile phone contacts to the vehicle, turn the Contacts Sync setting OFF. (Phone>Settings>Advanced setup>Contacts Sync)



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



4. The call will be made to the selected number.

i 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.

Searching the Phone Book



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.

BLUETOOTH® HANDSFREE

PART 5 BLUETOOTH® HANDSFREE



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



6. The search results will be displayed on the screen.

Searching by number



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



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



6. The search results will be displayed on the screen.

Call History List

Making a call from Call history



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



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



3. The call will be made to the selected number.

Sorting call history



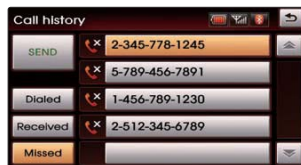
1. The call history can be displayed by sorting the incoming calls, outgoing calls and missed calls.
2. When pressing the **Dialed**, **Received** or **Missed** button, the corresponding call history list will be displayed.

PART 5 BLUETOOTH® HANDSFREE

Dialed number



Missed number



Received number



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 music

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 **MEDIA** key on the front panel or the **MODE** key on the steering wheel to enter Phone music mode.

BLUETOOTH® HANDSFREE

BLUETOOTH® HANDSFREE 5-21

PART 5 BLUETOOTH® HANDSFREE

i INFORMATION

Each press of the **MEDIA** key on the front panel will change the function in the order of DISC → USB or iPod → AUX → Phone Music → DISC.

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

i 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.

Phone music screen layout



- 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.

Selecting Phone music files



1. Press the **⏮**, **⏸** buttons on the Phone music screen or the **SEEK**, **TRACK** keys on the system.

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

i INFORMATION

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

PART 5 BLUETOOTH® HANDSFREE

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

i 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.



1. Press the **Settings** button on the PHONE screen.



2. 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



1. Press the **Settings** button on the PHONE screen.



2. Press the **Volume** button on the Settings screen.

INFORMATION

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

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



3. Use the **<** **>** buttons to set the desired volume on the Phone volume screen. Press the **Done** button to save.

INFORMATION

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

Set the incoming call volume accordingly.

PART 5 BLUETOOTH® HANDSFREE

Setting Audio streaming



1. Press the **Settings** button on the PHONE screen.



2. Press the **Streaming audio** button on the Settings screen.



3. Streaming audio setting is selected.

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 e available 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.



1. Press the **Settings** button on the PHONE screen.



2. Press the **Advanced setup** button on the Settings screen.

i 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.



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



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



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

PART 5 BLUETOOTH® HANDSFREE

Changing passkey



1. Press the **Change passkey** button on the Advance setup screen.



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

i INFORMATION

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

Deleting all paired phones



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



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



3. If **Yes** button is pressed, all currently paired phones will be deleted.

Initializing Bluetooth® handsfree



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



2. 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.

i 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.



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

PART 5 BLUETOOTH® HANDSFREE

Important information

About pairing mobile phones

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.

Q. What is the difference between pairing a mobile phone and connecting a mobile phone?

A. Pairing is the process of creating a secure communication connection between the mobile phone and the car Bluetooth® system.

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].

Connecting 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].





Q. What is a Passkey?

A. A passkey is an authentication code used for two-way communication 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  button on the PHONE screen to answer. To reject the incoming call, press the  key on the steering wheel or the  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  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  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 approximately 30 feet.

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.

PART 5 Bluetooth® HANDSFREE

CAUTION!

Mobile Phone Compatibility

Depending on the manufacturer, product and product specification, some mobile phones functions may not be supported or may not operate to specification. Carefully read the cautions listed below.

- The occurrence of problems upon using mobile phones may be caused by the mobile phone and not by the Audio/Navigation Unit.
- Even mobile phones which support Bluetooth® function may not operate properly if the mobile phone connection has been locked. Release the connection lock and try connecting the mobile phone with the system again.
- The Mobile phone battery icon and signal strength icon may not be properly displayed depending on the type of mobile phone.
- Call waiting is supported only when the connected mobile phones support this feature. The call waiting pop-up may not be displayed in some mobile phones.
- Audio streaming mode will operate only when a Bluetooth® phone has been connected. Connecting or disconnecting a Bluetooth® phone while audio streaming is operating will stop music play.
- The audio streaming function may not be supported in some mobile phones.
- The phonebook may take a prolonged period of time to download or may not operate in some mobile phones.
- The quality of Bluetooth® handsfree calls may differ depending on the mobile phone.

**PART 6
HVAC MODE**

Cautions upon operating HVAC mode 6-2

HVAC mode screen layout 6-2

HVAC System operations..... 6-3

Adjusting cabin temperature..... 6-3

Adjusting the driver-side and passenger-side temperature simultaneously 6-3

Adjusting the driver-side and passenger-side temperature separately 6-4

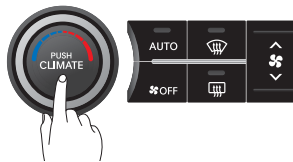
Setting fan direction 6-5

Setting fan level 6-5

PART 6 HVAC MODE

Cautions upon operating HVAC mode

Upon operating the HVAC system, the display is as shown below.



1. Press the **CLIMATE** key to display the HVAC system status on the entire screen.



2. When in the AV, Navigation, or Bluetooth® handsfree mode screen, press a HVAC key, such as **TEMP**, **AUTO**, or **A/C** to display the HVAC system status bar at the top of screen.



HVAC mode screen layout



- ❶ Fan direction display : displays the set fan direction.
- ❷ Driver-side temperature display : displays the driver-side temperature.
- ❸ AUTO display : displays whether the heating/cooling auto function is ON/OFF.

- 4 Airflow level and Ionizer Display : displays the airflow level and ionizer state.
- 5 DUAL : upon turning on DUAL, the driver-side and passenger-side temperature can be set separately.
- 6 Passenger-side temperature display : displays the passenger-side temperature.

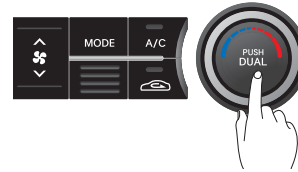
HVAC System operations

Adjusting cabin temperature

i INFORMATION

- Cabin temperature can be adjusted within a range of 17.5°C ~ 31.5°C in units of 0.5°C .
- Setting the temperature below 17.5°C will display the message "LOW" on the temperature display while setting the temperature above 31.5°C will display the message "HIGH" on the temperature display.
- Although the driver-side and passengerside temperature can be set independently when the **DUAL** key is active, the temperature on both sides will be set simultaneously when the **DUAL** key is inactive.

Adjusting driver-side and passenger-side temperature simultaneously



1. Turn off the DUAL setting.
2. When adjusting the driver-side temperature with DUAL turned off, the passenger-side temperature will be set simultaneously.



HVAC MODE

HVAC MODE 6-3

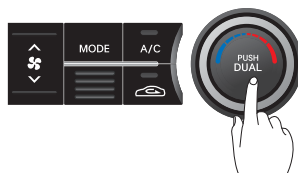
PART 6 HVAC MODE



i INFORMATION

When adjusting the passenger-side temperature, the DUAL setting will turn on automatically to allow the driver-side and passenger-side temperatures to be set independently.

Adjusting driver-side and passenger-side temperature separately



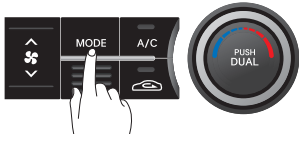
1. Turn ON the DUAL setting.
2. When adjusting the driver-side temperature in DUAL ON state, the driver-side temperature can be adjusted separately.



i INFORMATION

While adjusting the driver-side temperature, the **DUAL** key will turn be inactive when the driver-side temperature becomes set to LOW or HIGH.

Setting fan direction



1. Press the **VMODE/A** key. The fan direction will be changed.



2. The changed fan direction will be displayed on the screen.

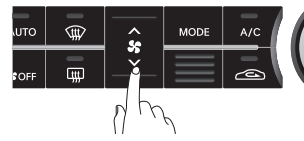


i INFORMATION

Changing the fan direction will operate in the following order.



Setting fan level



1. Press the **fan level** key. The fan level will be changed.



HVAC MODE

HVAC MODE 6-5

MEMO

**PART 7
REAR CAMERA**

About Rear Detection Camera 7-2
Operating sequence of the Rear Camera ... 7-2

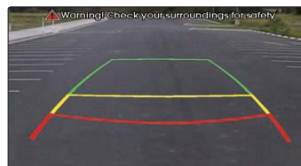
PART 7 REAR CAMERA

About Rear Detection Camera

- This system has been equipped with a rear camera for user safety by allowing a wider rear range of vision.
- The rear camera will operate automatically when the ignition KEY is turned ON and the transmission lever is positioned to P or R. The rear camera will automatically stop operating when set to a different lever.

Operating sequence of the Rear Camera

1. Position the ignition key in ACC or ON.
2. Position the transmission lever to R.



3. The rear camera mode will be displayed on the screen.

i INFORMATION

- The rear camera has been equipped with an optical lens to provide a wider range of vision and may appear different from the actual distance. Check the rear and left/right firsthand for user safety.
- The rear camera section pertains only to customers who have purchased this optical installation.

**PART 8
APPENDIX**

Troubleshooting guide 8-2
 Before thinking the product has malfunctioned 8-2
 Troubleshooting 8-3

Map legend 8-5
 Road color 8-5
 POI icons 8-5
 Landmark icons 8-7

INDEX 8-8

PART 8 APPENDIX

Troubleshooting guide

Before thinking the product has malfunctioned

1. Errors which occur during the operation or installation of the device may be mistaken as a malfunction of the actual device.
2. If you are having problems with the device, try the suggestions listed below.
3. If the problems persist, contact your KIA dealer.

| 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 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • The display looking somewhat darker after prolonged periods of use is a normal phenomenon with LCD panels. It is not a malfunction. • If the screen is very dark, contact your nearest KIA dealer for assistance. |
| Sound is working from only one speaker | Is the position of FAL/BAL sound controls or volume adjusted to only one side? |
| Sound and video does not work in AUX mode | Are 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 on the phonetic spelling. This will continuously be update with the map database. |

Troubleshooting

| Problem | Possible Cause | Solution |
|---------------------------------------|--|--|
| The power does not turn on. | The fuse is blown. | Replace with a suitable fuse. If the fuse is blown again, please contact your nearest KIA dealer for assistance. |
| | Device is not properly connected. | Check to see that the device has been properly connected. |
| SIRIUS only goes through one category | The SIRIUS mode is in category. | Press the mode button to change to channel mode. |
| The CD 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 dirt and other foreign substances from the DISC. |
| | The vehicle battery is low. | Charge the battery. If the problem persists, please contact your nearest KIA dealer for assistance. |
| | A disc which is not supported by the device has been inserted. | Insert a disc which is supported for play by the device. |
| The video does not work. | The brightness level has been set to the lowest level. | Adjust the brightness to a higher level. |
| | The volume level is set the lowest level. | Adjust the volume level. |
| The sound does not work. | The connector is not properly connected. | Check the connection. |
| | The device is currently fast-forwarding, rewinding, scanning, or playing in slow mode. | The sound will not work when the device is fast-forwarding, rewinding, scanning, or playing in slow mode. |

APPENDIX

APPENDIX 8-3

PART 8 APPENDIX

| Problem | Possible Cause | Solution |
|---|---|--|
| The sound or video quality is low. | The DISC is dirty or scratched. | Wipe off water or dirt from the DISC. Do not use a disc which has been scratched. |
| | Vibration is occurring from the position in which the conversion switch has been installed. | 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. |
| | The color and tone quality of the image is low. | Aging of the video display and deterioration in performance may cause certain quality degradations. |
| The USB does not work. | USB memory is damaged. | Please use after formatting the USB into FAT 12/16/32 format. |
| | USB memory has been contaminated. | Remove any foreign substances on the contact surface of the USB memory and multimedia terminal. |
| | A separately purchased USB HUB is being used. | Directly connect the USB memory with the multimedia terminal on the vehicle. |
| | A USB extension cable is being used. | Use standard USB Memory. |
| | A HDD type, CF, SD Memory is being used.. | Use standard USB Memory. |
| | There are no music files which can be played. | 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. | Use iTunes to download and save MP3 files into the iPod. |
| | The iPod firmware version has not been properly updated. | Use iTunes to update the firmware version and reconnect the iPod with the device. |
| | The iPod device does not recognize downloads. | Reset the iPod and reconnect with the device. |

8-4 APPENDIX

Map legend

Road color

| Day Road Type | Color |
|---------------|-------|
| Freeway | |
| Arterial | |
| County | |
| Collector | |
| Local | |
| Unpaved local | |
| Ferry | |

| Night Road Type | Color |
|-----------------|-------|
| Freeway | |
| Arterial | |
| County | |
| Collector | |
| Local | |
| Unpaved local | |
| Ferry | |

POI icons

| No | Category | Sub Category | Icon | No | Category | Sub Category | Icon | |
|----|-------------|-----------------|------|----|-------------|-----------------------|----------------|--|
| 1 | Restaurants | Representation | | 16 | Restaurants | Coffee Shop | | |
| 2 | | Fast Food | | 17 | | Others | | |
| 3 | | American | | 18 | Automotive | Representation | | |
| 4 | | French | | 19 | | Gas Station | | |
| 5 | | Italian | | 20 | | Parking | | |
| 6 | | Continental | | 21 | | Auto service | | |
| 7 | | Mexican | | 22 | | Road Assistance | | |
| 8 | | Japanese | | 23 | | KIA Dealership | | |
| 9 | | Chinese | | 24 | | Automobile Dealership | | |
| 10 | | Korean | | 25 | | Auto Parts | | |
| 11 | | Vegetarian Food | | 26 | | Rest Area | | |
| 12 | | Seafood | | 27 | | Car Wash | | |
| 13 | | Latin American | | 28 | | Motorcycle Dealership | | |
| 14 | | Asian | | 29 | | Travel | Representation | |
| 15 | | African | | 30 | | | Airport | |

APPENDIX

APPENDIX 8-5

PART 8 APPENDIX

POI icons

| No | Category | Sub Category | Icon | No | Category | Sub Category | Icon | No | Category | Sub Category | Icon | |
|----|----------|---------------------|-------------------|----|----------|----------------------|-------------------|----|------------|-----------------------|-------------------|--|
| 31 | Travel | Hotel | | 46 | Shopping | Music Store | | 61 | Recreation | Sports Complex | | |
| 32 | | Tourist Information | | 47 | | Grocery Store | | 62 | | Golf Course | | |
| 33 | | Travel Agent | | 48 | | Bookstore | | 63 | | Winery | | |
| 34 | | Tourist Attraction | | 49 | | Electronics | | 64 | | Video & Game Rental | | |
| 35 | | Popular Spot | | 50 | | Hardware Store | | 65 | | Ski Resort | | |
| 36 | | Rental Car Agency | | 51 | | Gifts | | 66 | | Recreation Area | | |
| 37 | | Campground | | 52 | | Sporting Goods | | 67 | | Other Recreation | | |
| 38 | | Ferry Terminal | | 53 | | Home Specialty Store | | 68 | | Representation | | |
| 39 | | Bus Station | | 54 | | Clothing | | 69 | | Bank | | |
| 40 | | Local Transit | | 55 | | Shoe Store | | 70 | | ATM | | |
| 41 | | Train Station | | 56 | | Representation | | 71 | | Check Cashing Service | | |
| 42 | | Shopping | Representation | | | 57 | Amusement Park | | | 72 | Money Transfer | |
| 43 | | | Department Store | | | 58 | Museum | | | 73 | Business Facility | |
| 44 | | | Convenience Store | | | 59 | Cinema | | | 74 | Representation | |
| 45 | | | Shopping Center | | | 60 | Sports Activities | | | 75 | Police Station | |

8-6 APPENDIX

POI icons

| No | Category | Sub Category | Icon |
|----|-----------|--------------------|------|
| 76 | | Post Office | |
| 77 | | Library | |
| 78 | | Court House | |
| 79 | | Fire Department | |
| 80 | | Convention Center | |
| 81 | Community | City Hall | |
| 82 | | Civic Center | |
| 83 | | School | |
| 84 | | Government Offices | |
| 85 | | Waste & Sanitary | |
| 86 | | Utilities | |
| 87 | | Representation | |
| 88 | Service | Hospital | |
| 89 | | Dentist | |
| 90 | | Photography | |

| No | Category | Sub Category | Icon |
|-----|----------|---------------------|------|
| 91 | | Tax Service | |
| 92 | | Medical Service | |
| 93 | | Attorney | |
| 94 | | Funeral Director | |
| 95 | | Hair & Beauty | |
| 96 | Service | Cleaning & Laundry | |
| 97 | | Social Service | |
| 98 | | Physician | |
| 99 | | Communication | |
| 100 | | Tailor & Alteration | |
| 101 | | Mover | |

Landmark icons

| No | Category | Sub Category | Icon |
|----|----------|--------------|------|
| 1 | | Airport | |
| 2 | Service | Park | |
| 3 | | Golf | |
| 4 | | University | |

INDEX

A

| | |
|---|------|
| About Bluetooth® device environment ... | 5-31 |
| About CD Player | 2-11 |
| About making/answering phone calls ... | 5-31 |
| About pairing mobile phones | 5-30 |
| About Rear Detection Camera | 7-2 |
| About the Rear Camera | 7-2 |
| Activating Call waiting | 5-14 |
| Adaptive volume control ON/OFF | 3-51 |
| Adding to address book: | 3-27 |
| Adding waypoints | 3-32 |
| Adjusting audio volume..... | 1-8 |
| Adjusting cabin temperature..... | 6-3 |
| Adjusting driver-side and passenger-side temperature separately | 6-4 |
| Adjusting driver-side and passenger-side temperature simultaneously | 6-3 |
| Advanced settings | 5-26 |
| Answering a call | 5-13 |
| Answering an incoming call | 5-13 |
| Audio Sound setting | 1-10 |
| Auto volume control ON/OFF | 1-11 |
| AUX | 2-33 |
| AUX screen | 2-33 |

B

| | |
|--|------|
| Basic operation and setting | 1-7 |
| Basic operation for voice command control..... | 4-2 |
| BASS/MID/TREB | 1-11 |
| Before playing Phone music | 5-21 |
| Before thinking the product has malfunctioned | 8-2 |
| Before using the Bluetooth® Handsfree ... | 5-2 |
| Bluetooth® Handsfree screen and functions..... | 5-9 |
| Bluetooth® Handsfree screen layout | 5-9 |
| Bluetooth® settings | 5-24 |
| Brightness | 1-11 |
| Browsing detailed information about the SIRIUS channel | 2-10 |

C

| | |
|---|------|
| Call History List | 5-19 |
| call, When already on a | 5-10 |
| Camera | 7-2 |
| Cautions upon operating HVAC mode | 6-2 |
| CD | 2-15 |
| CD screen and functions | 2-15 |
| Changing destination position: | 3-27 |

| | |
|--|------|
| Changing passkey | 5-28 |
| Changing Route option | 3-32 |
| Changing the map scale | 3-8 |
| Command list of Audio system | 4-7 |
| Command list of Help | 4-6 |
| Command list of Navigation system | 4-14 |
| Command list of Phone | 4-13 |
| Condition for voice command system ... | 4-2 |
| Conditions for voice recognition system .. | 1-9 |
| Connecting a mobile phone | 5-7 |
| Connecting AUX..... | 2-33 |
| Connecting iPod devices | 2-23 |
| Connecting the USB | 2-30 |
| Controller and functions | 1-3 |
| Control panel | 1-3 |
| Converting Bluetooth® Handsfree mode .. | 5-2 |
| Converting from Audio/Navigation mode to Bluetooth® Handsfree | 5-2 |
| Converting from Bluetooth® Handsfree mode to Audio/Navigation mode | 5-3 |
| Current position map screen (without route) | 3-5 |

D

| | |
|---------------------------------|------|
| Deleting all avoid areas | 3-41 |
| Deleting all paired phones..... | 5-28 |

| | |
|---|------|
| Deleting an address book | 3-47 |
| Deleting an address of address book ... | 3-46 |
| Deleting a paired phone | 5-6 |
| Deleting avoid area | 3-41 |
| Deleting favorite place | 3-50 |
| Deleting home address | 3-48 |
| Deleting waypoints | 3-34 |
| Destination by address book | 4-24 |
| Destination by memory point <1 to 5> .. | 4-25 |
| Destination menu screen and functions .. | 3-12 |
| Destination POI by phone number | 4-22 |
| Dialed number | 5-20 |
| Disc/Content format compatibility | 2-13 |
| Disconnecting a mobile phone | 5-8 |
| Displaying / Hiding icons other than | |
| Q,POI icons | 3-9 |
| Displaying / Hiding POI icons on the map .. | 3-9 |
| Displaying/Hiding Q,POI icons | 3-9 |
| Displaying the list | 1-8 |
| Display mode | 1-11 |
| Display OFF | 1-11 |
| Display ON | 1-11 |
| Display Picture Frame..... | 1-12 |
| Display setting | 1-11 |

E

| | |
|--|------|
| Editing an address of address book | 3-45 |
| Editing avoid area | 3-40 |
| Editing waypoints | 3-32 |
| Ending a call | 5-15 |

F

| | |
|---|------|
| FAD/BAL | 1-10 |
| Find address | 4-19 |
| Find emergency <Category> : | 4-23 |
| Find nearest POI | 4-20 |
| Find nearest <POI name> | 4-21 |
| Finishing route guidance | |
| (Delete Destination) | 3-30 |
| FM/AM Radio | 2-2 |
| FM/AM screen and functions | 2-2 |
| For safe and efficient operation | 2-11 |
| Functions supported by Bluetooth® | 5-2 |
| Handsfree | 5-2 |

G

| | |
|----------------------------------|------|
| Giving voice command | 1-10 |
| Go home | 4-25 |
| GPS signal reception state | 3-2 |

H

| | |
|---|------|
| Help..... | 3-54 |
| How to operate menu by voice command .. | 1-9 |
| How to operate the screen menu | 1-8 |
| HVAC mode screen layout | 6-2 |
| HVAC System | 1-6 |
| HVAC System operations | 6-3 |

I

| | |
|--|------|
| Important information | 5-30 |
| Important information about this manual .. | 1-2 |
| Initializing Bluetooth® handsfree | 5-29 |
| Initializing system | 3-37 |
| Inputting letter by using screen keyboard .. | 1-8 |
| Inserting/Ejecting Disc | 2-14 |
| Introduction | 1-2 |
| iPod® | 2-23 |
| iPod screen and functions | 2-24 |

L

| | |
|--|------|
| Landmark icons | 8-7 |
| Limitations of the navigation system | 3-2 |
| Listening to CD music | 2-15 |
| Listening to iPod music | 2-24 |

INDEX

| | |
|---|------|
| Listening to MP3 music | 2-19 |
| Listening to the FM/AM radio | 2-2 |
| Listening to the SIRIUS radio | 2-6 |
| Listening to USB music | 2-30 |
| M | |
| Main setting | 3-37 |
| Making a call | 5-11 |
| Making a call by dialing a phone | |
| number | 5-11 |
| Making a call by redialing | 5-12 |
| Making a call from Call history | 5-19 |
| Making a call from Speed Dial | 5-11 |
| Making a call from the Phone book | 5-16 |
| Making a call to POI | 3-10 |
| Map Functions | 3-5 |
| Map legend..... | 8-5 |
| MAP VOICE | 3-5 |
| Missed number | 5-20 |
| MP3 | 2-18 |
| MP3 disc related information and | |
| precaution | 2-18 |
| MP3 screen and functions | 2-19 |
| My places setting | 3-43 |

N

| | |
|--------------------------|------|
| Navigation setting | 3-38 |
|--------------------------|------|

O

| | |
|--|------|
| Operating after searching a destination .. | 3-27 |
| Operating after setting a destination ... | 3-28 |
| Operating external devices | 2-23 |
| Operating menus during a call | 5-14 |
| Operating sequence of the Rear | 7-2 |
| Operating sequence of the Rear | |
| Camera | 7-2 |
| Operating the CD Player | 2-11 |
| Operating the radio | 2-2 |
| Operating typical screen menu | 1-8 |
| Operating USB IMAGE Mode | 2-32 |
| Operating voice command | 4-2 |

P

| | |
|--|------|
| Pairing a mobile phone | 5-4 |
| Pairing and connecting a Bluetooth® .. | 5-4 |
| phone | 5-4 |
| Pairing and connecting a mobile phone .. | 5-24 |
| Phone Book..... | 5-16 |
| Phone Music | 5-21 |
| Phone music screen layout | 5-22 |

| | |
|---------------------------------------|------|
| Pick-List(n-best list) | 4-20 |
| Playing AUX | 2-33 |
| POI Category list | 4-18 |
| POI icons | 8-5 |
| Precaution for safe usage | 1-2 |
| Precautions upon handling discs | 2-11 |
| Precautions upon handling USB | 2-28 |
| Previous destination | 4-24 |
| Previous start point | 4-25 |

R

| | |
|--|------|
| Received number | 5-20 |
| Registering avoid area | 3-38 |
| Registering favorite place | 3-49 |
| Registering home address | 3-48 |
| Registering new address in address book... | 3-43 |
| Rejecting an incoming | 5-13 |
| Rejecting an incoming | 5-13 |
| Re-ordering waypoints | 3-34 |
| REW/FF CD track..... | 2-16 |
| REW/FF iPod song | 2-26 |
| REW/FF MP3 file | 2-21 |
| Road color | 8-5 |
| Route guidance | 3-30 |
| Route Guidance | 3-4 |

| | | | | | |
|---|------|---|------|---|------|
| Route guidance screen | 3-28 | Searching POI by local POI list | 3-26 | Setting Language | 3-37 |
| Route menu screen and functions..... | 3-30 | Searching the Phone Book..... | 5-17 | Setting mobile phone auto connect priority | 5-24 |
| Route overview (View Entire Route) | 3-31 | Selecting an iPod song | 2-25 | Setting Picture Frame..... | 1-12 |
| Route Re-calculation | 3-4 | Selecting an item in a list | 1-9 | Setting Q,POI icons..... | 3-42 |
| S | | | | | |
| Scanning CD track | 2-17 | Selecting FM/AM broadcast frequency... .. | 2-4 | Setting Random function for CD music... .. | 2-16 |
| Scanning FM/AM broadcast frequency ... | 2-5 | Selecting other route | 3-29 | Setting Random function for iPod song ... | 2-26 |
| Scanning MP3 file | 2-22 | Selecting Phone music files | 5-23 | Setting Random function for MP3 file ... | 2-21 |
| Scrolling map | 3-11 | Selecting SIRIUS broadcast channel | 2-7 | Setting Repeat function for CD music ... | 2-17 |
| Searching a Destination..... | 3-13 | Selecting the CD track | 2-16 | Setting Repeat function for iPod song ... | 2-27 |
| Searching an Address..... | 3-13 | Selecting to MP3 music | 2-20 | Setting Repeat function for MP3 file | 2-22 |
| Searching and modifying my device properties | 5-27 | Setting a destination | 3-12 | settings, Advanced..... | 5-26 |
| Searching an Intersection | 3-17 | Setting arrival time and distance display ... | 3-38 | Setting the Clock | 1-13 |
| Searching a POI | 3-20 | Setting as Destination / waypoint: | 3-27 | Setting units (mile/ km) | 3-38 |
| Searching a Previous Destination | 3-17 | Setting Audio streaming | 5-25 | Setting up the voice command system..... | 4-4 |
| Searching by name..... | 5-17 | Setting avoid streets on route | 3-35 | Setting voice command feedback ON/OFF | 3-37 |
| Searching by number..... | 5-18 | Setting Contacts Auto Download (Sync) ... | 5-27 | Setting voice Prompt ON/OFF | 4-4 |
| Searching destination by voice command | 4-19 | Setting detour distance | 3-35 | Setup and Information | 3-36 |
| Searching favorite places | 3-26 | Setting estimate travel time | 3-42 | Setup menu screen and functions..... | 3-36 |
| Searching for Emergency facilities | 3-25 | Setting fan direction | 6-5 | SIRIUS radio..... | 2-6 |
| Searching from Address book | 3-24 | Setting fan direction | 6-5 | SIRIUS screen and functions | 2-6 |
| Searching from MAP | 3-26 | Setting fan level | 6-5 | Sorting call history | 5-19 |
| | | Setting Handsfree volume | 5-25 | Sorting items from list | 1-9 |
| | | Setting keyboard for inputting letter ... | 3-37 | Speaker adaptation | 4-4 |

INDEX

| | | | | | |
|---|------|---|------|--|------|
| Spell recognition | 4-20 | U | | When receiving an incoming call | 5-10 |
| Starting navigation system | 3-5 | USB IMAGE Mode | 2-31 | When there is a call waiting | 5-10 |
| Starting Phone Music..... | 5-21 | USB IMAGE mode menu screen configuration | 2-31 | When there is no mobile phone connected | 5-9 |
| Starting Route Guidance | 3-28 | USB MP3 | 2-28 | | |
| Starting USB IMAGE Mode..... | 2-31 | USB MP3 related information and precaution | 2-28 | | |
| Steering wheel remote controller | 1-5 | V | | | |
| Storing FM/AM preset | 2-4 | Vehicle position display | 3-3 | | |
| Supported disc formats | 2-12 | Viewing Current Time..... | 1-12 | | |
| Switching call to the mobile phone | 5-14 | Viewing detailed information for iPod song | 2-27 | | |
| Switching map mode (North Up / Heading Up) | 3-6 | Viewing detail information for MP3 file... .. | 2-21 | | |
| Switching the SIRIUS mode (Channel / Category) | 2-7 | Viewing GPS signal state | 3-7 | | |
| System information and update | 3-37 | Voice command Help..... | 4-3 | | |
| T | | Voice command list | 4-6 | | |
| Touch screen beep ON/OFF | 1-11 | Voice guidance volume control | 3-51 | | |
| Traffic Information | 3-52 | Voice guidance volume setting | 3-51 | | |
| Traffic Setup | 3-52 | W | | | |
| Troubleshooting..... | 8-3 | What is Bluetooth*? | 5-2 | | |
| Troubleshooting guide | 8-2 | When already on a call | 5-10 | | |
| Turning the Audio ON/OFF | 1-7 | When a mobile phone is connected | 5-9 | | |
| Turning the Power OFF | 1-7 | | | | |
| Turning the Power ON | 1-7 | | | | |

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.

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

Some 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.

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 contained in the map database for 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 DATABASE HOTLINE

M & SOFT AMERICA MAP CENTER
TEL : 888-757-0010
WEBSITE : www.mapsoft.com

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum 20 cm between the radiator and your body. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.

IC Warning

Operation of this device is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.