

Warnings and Cautions

Safety Warnings

- ⌵ Even when receiving route guidance from the Navigation system, please abide by actual traffic and road regulations. Following only the Navigation route guidance may lead to violations of actual traffic and road regulations and lead to traffic accidents.
- ⌵ Do not stare at the screen while driving. Staring at the screen for prolonged periods of time could lead to traffic accidents.
- ⌵ Do not operate the Navigation system while driving, such as entering POIs or conducting route searches. Such acts could lead to accidents, fire, or electric shock. Park the vehicle before operating the device.
- ⌵ Do not disassemble, assemble, or modify the Navigation system. Such acts could result in accidents, fire, or electric shock.
- ⌵ Heed caution not to spill water or introduce foreign objects into the device. Such acts could lead to smoke, fire, or product malfunction.
- ⌵ Please refrain from use if the screen is blank or no sound can be heard as these signs may indicate product malfunction. Continued use in such conditions could lead to accidents (fires, electric shock) or product malfunctions.
- ⌵ Do not touch the antenna during thunder or lightening as such acts may lead to lightning induced electric shock.
- ⌵ Do not stop or park in parking-restricted areas to operate the product. Such acts could lead to traffic accidents.
- ⌵ For most Audio and multimedia modes, the display will not operate when the vehicle is in motion. For your safety, first park the vehicle to watch or view the screen. (The screen will operate when the parking brake is set to ON for manual transmission vehicles and when set to P or Parking Brake On state for auto transmission vehicles.)

Safety Cautions

Pay attention to traffic conditions while driving.

- ❑ In some instances, the navigation may provide guidance through restricted areas.
- ❑ Operating the device while driving could lead to accidents due to a lack of attention to external surroundings. First park the vehicle before operating the device. In addition, the touch screen may not work for some functions when the vehicle is in motion. The touch screen feature will be supported once the vehicle has stopped.
- ❑ Adjust the volume to levels that allow the driver to hear sounds from outside of the vehicle. Driving in a state where external sounds cannot be heard may lead to accidents.
- ❑ Pay attention to the volume setting when turning the device on. A sudden output of extreme volume upon turning the device on could lead to hearing impairment. (Adjust the volume to a suitable level before turning off the device.)
- ❑ If you want to change the position of device installation, please inquire with your place of purchase or service maintenance center.
- ❑ Technical expertise is required to install or disassemble the device.
- ❑ Turn on the car ignition before using this device. Do not operate the Navigation system for long periods of time with the ignition turned off as such operations may lead to battery discharge.
- ❑ Upon using the Navigation system for more than 10 minutes with the car engine turned off, the following warning will be displayed. After 10 minutes, the warning will be displayed for 3 seconds every 1 minute.
- ❑ Do not subject the device to severe shock or impact. Direct pressure onto the front side of the monitor may cause damage to the LCD or touch screen.
- ❑ When cleaning the device, make sure to turn off the device and use a dry and smooth cloth.
- ❑ Never use tough materials, chemical cloths, or solvents(alcohol, benzene, thinners, etc.) as such materials may damage the device panel or cause color/quality deterioration.
- ❑ When experiencing product malfunctions, inquire with your place of purchase or service maintenance center.

Key Product Features

This device is an Audio Navigation system equipped with a multifunctional disc player that supports Radio (FM1, FM2, AM), HD Radio technology, SIRIUS, Audio CD, MP3, USB, iPod, Audio AUX, and My Music features. The WIDE VGA LCD provides a high quality resolution while the powerful and rich sound system adds to the driving enjoyment.

Display	<p>Wide TFT-LCD Display</p> <ul style="list-style-type: none"> • Provides high quality sound and video through a Wide TFT-LCD Display using an LED Back Light • Touch screen for maximum user convenience
Radio	<p>Digital Tuner Feature</p> <ul style="list-style-type: none"> • Digital Tuner using PPL method that supports memory of 6 broadcast stations for each AM, FM1, and FM2 modes <p>Integrated Antenna (RADIO+NAVI)</p> <ul style="list-style-type: none"> • Outstanding reception via integrated antenna with high sensitivity <p>Radio broadcast station name</p> <ul style="list-style-type: none"> • Displays broadcast station names for key locations <p>HD Radio/Satellite Radio feature</p> <ul style="list-style-type: none"> • Supports HD Radio reception and Satellite Radio (SIRIUS)
Multimedia Player	<p>Support for various Media Formats</p> <ul style="list-style-type: none"> • Support for various media formats, including Radio, audio MP3 CD, USB, iPod and AUX • Supports USB, iPod, and Bluetooth® Audio Streaming modes <p>My Music</p> <ul style="list-style-type: none"> • Supports copying of music stored within USB or iPod devices into My Music (internal memory) mode <p>USB Image</p> <ul style="list-style-type: none"> • Copy to view and save images saved in USB devices

Navigation	Voice Guidance <ul style="list-style-type: none">• Voice route guidance to safely and conveniently reach set destinations• Various map scales that enables drivers to accurately view map and surrounding areas Automatic Correction for Current Location <ul style="list-style-type: none">• Automatically corrects current position using map matching and GPS information
Miscellaneous	Bluetooth® Wireless Technology <ul style="list-style-type: none">• Convenient use of Bluetooth® Handsfree by using buttons within the steering wheel remote controller Digital Screen Control Features <ul style="list-style-type: none">• Easy control of features through touch screen options Steering Wheel Remote Controller <ul style="list-style-type: none">• Control over audio features, voice recognition and Bluetooth® through the steering wheel remote controller for maximum convenience

Component Names and Functions

Head Unit







Name	Description
1 ● PWR key ● VOL Knob	<ul style="list-style-type: none"> • When power is off, press to turn power on • When power is on, press and hold (over 0.8 seconds) to turn power off • When power is on, press shortly (under 0.8 seconds) to turn Audio off • Turn left/right to control volume
2 FM/AM	<ul style="list-style-type: none"> • Converts to FM/AM mode • Each time the key is pressed, the mode is changed in order of FM1 FM2 AM FM1
3 SAT	<p>Converts to SIRIUS mode</p> <ul style="list-style-type: none"> • Each time the key is pressed, the mode is changed in order of SIRIUS1 SIRIUS2 SIRIUS3 SIRIUS1
4 ∇ SEEK TRACK ∨	<p>When key is pressed shortly. (under 0.8 seconds)</p> <ul style="list-style-type: none"> • In FM/AM mode, plays previous/next frequency • In SIRIUS mode, plays the previous/next channel • In CD/MP3/USB/iPod/My Music modes, changes the track, file or chapter <p>When key is pressed and held. (over 0.8 seconds)</p> <ul style="list-style-type: none"> • In FM/AM mode, continuously changes the frequency until the key is released and plays the current frequency • In SIRIUS mode, continuously changes the channel until the key is released and plays the current channel • In CD/MP3/USB/iPod/My Music modes, rewinds or fast-forwards the track or file
5 PHONE	Takes user to home phone screen






Name	Description
6 MEDIA	<ul style="list-style-type: none"> Displays CD, MP3, USB, iPod, AUX, Bluetooth® Audio Streaming, My Music modes If the media is not connected or a disc is not inserted, corresponding modes will be disabled
7 MAP VOICE	Displays the map for the current position
8 DEST	Displays the Destination setup menu
9 ROUTE	Displays Route menu screen
10 i ⚙️	Displays the Setup mode
11 TUNE key	<ul style="list-style-type: none"> In FM/AM mode, changes the frequency In SIRIUS mode, changes the channel In CD, MP3, USB, iPod, My Music modes, changes the track, file or chapter
12 ⏮	Press to insert or eject disc
13	SD Card insert slot




Component Names and Functions




Steering Wheel Remote Controller

Name	Description
1 	Controls the volume
2 	Mutes the sound
3 	<p>When keys are pressed shortly. (under 0.8 seconds)</p> <ul style="list-style-type: none"> In FM/AM mode, searches broadcast frequencies saved to Presets In SIRIUS modes, searches broadcast channels saved to Presets In CD/MP3/USB/iPod/My Music modes, changes the track, file or chapter <p>When keys are pressed and held. (over 0.8 seconds)</p> <ul style="list-style-type: none"> In FM/AM mode, automatically searches broadcast frequencies and channels In SIRIUS modes, automatically searches broadcast channels In CD/MP3/USB/iPod/My Music modes, rewinds or fast forwards the track or file
4 	<ul style="list-style-type: none"> Each time this key is pressed, the mode is changed in order of FM1 FM2 AM SIRIUS1 SIRIUS2 SIRIUS3 USB or iPod AUX Bluetooth® Audio My Music If the media is not connected or a disc is not inserted, corresponding modes will be disabled Press and hold the key (over 0.8 seconds) to turn the Audio system on/off When power is off, press the key to turn power back on

Name	Description
5 	<p>When pressed shortly. (under 0.8 seconds)</p> <ul style="list-style-type: none"> Activates voice recognition <p>When pressed and held. (over 0.8 seconds)</p> <ul style="list-style-type: none"> Ends voice recognition
6 	<p>When pressed shortly. (under 1.2 seconds)</p> <ul style="list-style-type: none"> When pressed in the phone screen, displays call history screen When pressed in the dial screen, makes a call When pressed in the incoming call screen, answers the call When pressed during call waiting, switches to waiting call (Call Waiting) <p>When pressed and held. (over 1.2 seconds)</p> <ul style="list-style-type: none"> When pressed in the Bluetooth® Handsfree wait mode, redials the last call When pressed during a Bluetooth® Handsfree call, switches call back to mobile phone (Private) When pressed while calling on the mobile phone, switches call back to Bluetooth® Handsfree (Operates only when Bluetooth® Handsfree is connected)
7 	<p>When pressed during a call, ends the phone call</p> <p>When pressed in the incoming call screen, rejects the call</p>

Climate System

Name	Description
1 	Removes humidity and frost by blowing fan towards the front window
2 	The side mirror and rear window defroster is turned on/off
3 OFF	Turns the climate system off
4 	Sets the fan level
5 MODE	Sets the fan direction
6 CLIMATE	Displays the climate info screen
7 A/C	Turns the air conditioner on/off

Name	Description
8 	Switches the air intake mode to recirculation
9 	Switches the air intake mode to outside air
10 AUTO	Operates auto temperature mode to maintain cabin temperature at suitable levels relative to outside temperature
11 DUAL	Turns DUAL mode on/off Upon turning on DUAL, the driver-side and passenger-side temperature can be operated independently
12 TEMP	Controls the driver-side temperature
13 	Controls the passenger-side temperature

Starting the System for the First Time

Turning the System On/Off

Turning the System On

If the engine start button is pressed without pressing the brakes, then the ACC and system will turn on.

Once the system is turned on, the booting process will start and the safety warning page is displayed.

Pressing the **PWR** key on the head unit will display the safety warning page. Press the **Agree** button to display the most recent mode.



To change the system language between Korean, English, Français, and Español press the **Language** button.

i Information

- No operations are supported while the system is booting. Some time may be required until all features are ready for use.

⚠ CAUTION

- The safety warning page is displayed every time the ignition is turned on. The displayed warnings are related to safety, please closely read and comply with the safety warnings.

Turning the System Off

Press the engine start button again or press and hold the **PWR** key on the system to turn the system off.

i Information

- If the system is turned off while the Handsfree is being used, then the call will automatically switch back to the mobile phone.
- ADM (Accessory Delay Mode) refers to a state in which the navigation system will remain turned on for continued use up to a certain amount of time even if the vehicle ignition is set to ACC OFF state.
- The navigation system will automatically turn off if more than 3 minutes has passed in ACC OFF state or the driver-side door is opened.
- While ADM is operating, it is possible to manually turn off the system power.

⚠ CAUTION

- Pay attention to the volume setting when turning the device on. Adjust the volume to a suitable levels before turning off the device.

Resetting the System

This feature is used to reset the system in the occurrence of an unforeseen error or problem.



Press and hold the **FM/AM** key and **MAP VOICE** key at the same time about 10 seconds.

NOTICE

- Upon resetting the system, saved data and settings information (volume and display settings) will be restored back to the default factory state. Such are not indications of malfunctions.

Battery Warning Message

Use the system only when the engine is running. If the system is turned on with the engine off, then the following warning will be displayed.



This message will automatically disappear once the engine is turned on.

⚠ CAUTION

- Using the system for prolonged periods of time without the engine running may result in battery discharge.



2 Audio

- FM/AM Mode
- HD Radio™ Mode
- SIRIUS Mode
- About DISC
- CD Mode
- MP3 CD Mode
- USB Mode
- iPod Mode
- AUX Mode
- Bluetooth® Audio Mode
- My Music Mode



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FM/AM Mode

Basic Mode Screen (HD Radio™ reception OFF)



Name	Description
1 Mode Display	Displays currently operating mode
2 Preset	Shows saved presets for user selection
3 Broadcast station	Displays the current broadcast station name
4 Frequency	Displays the current frequency
5 Genre Display	Displays the current genre
6 Preset Scan	Plays preset frequencies for 5 seconds each
7 Text On (Text Off)	Turns the Radio Text information on and off
8 Menu	Displays Preset Scan and Text On (Text Off) menus
9 Scan	Plays frequencies with superior reception for 5 seconds each
10 Auto Store	Saves frequencies with superior reception to Preset buttons

Basic Mode Screen (HD Radio™ reception ON)



Name	Description
1 HD Radio Reception	Displays main HD Radio channels
2 Broadcast Station	Displays the current broadcast station
3 Genre	Displays the current broadcast genre
4 Broadcast Info	Displays detailed information about the current broadcast
5 Selection buttons	Used to select the previous/next HD Radio broadcast channel
6 Auto Store	Saves frequencies with superior reception to Preset buttons
7 Preset Scan	Plays preset frequencies for 5 seconds each
8 Scan	Plays frequencies with superior reception for 5 seconds each
9 Text On (Text Off)	<ul style="list-style-type: none"> When pressed, shows detailed information about the current broadcast When pressed again, detailed information is turned off
10 Tagging	<ul style="list-style-type: none"> Used to save song information for the currently playing broadcast Upon connecting an iPod, song information is transferred to the iPod and can be downloaded through iTunes

FM/AM Mode

FM/AM Mode

Starting Mode

Press the **FM/AM** key to change the mode in order of FM1 FM2 AM.



When the power is OFF, pressing the **FM/AM** key will turn the power on and play a radio broadcast.

Using SEEK

Press the **SEEK** , **TRACK** key to automatically search for frequencies.

- Shortly press the key (under 0.8 seconds) : Plays previous/next frequency.
- Press and hold the key (over 0.8 seconds) : Changes the frequency while pressed and receives the next frequency upon release.

Using TUNE

Turn the **TUNE** knob left/right to select the frequency.



- FM1/FM2 : Increases/decreases by 200kHz
- AM : Increases/decreases by 10kHz

Selecting Presets



From the 6 presets, select the frequency you want to listen to.

Information

- You can save up to 6 preset channels each for FM1, FM2 and AM.

Saving Radio Frequency



Saving Manually

After selecting frequency Press and hold (over 0.8 seconds) the preset button.

A 'beep' will sound and the frequency is saved to the selected preset button.

Saving Automatically

Press the **Auto Store** to automatically save receivable frequencies to Preset buttons.

A total of 18 frequencies with six preset frequencies each for FM1/FM2/AM modes can be saved.

i Information

- While Auto Store is operating, pressing the **Auto Store** button again will cancel the function and play the previous frequency.

Scanning Radio Frequency

Press the **Scan** button to scan all radio frequencies.



Starting from the current frequency, frequencies with superior reception are scanned for 5 seconds and the previous frequency is restored.



FM/AM Mode

FM/AM Mode

Using the Menu Buttons

Press the **Menu** button to use the Preset Scan menu.



Preset Scan

Press the **Menu** button Press **Preset Scan**.

Frequencies saved to the 6 preset buttons are each played for 5 seconds and the previous frequency is restored.

Text On/Text Off

Press the **Menu** button Press **Text On**.

The Text feature is turned on/off.

- If the **Text On** button is displayed (Text off state), information will not be displayed even if there is information being transmitted from the broadcast station.
- If the **Text Off** button is displayed (Text on state), then broadcast information will be displayed. Information may not be displayed if there is no information being transmitted from the broadcast station.

HD Radio™ Mode

About HD Radio™ Technology



- PSD** Program Service Data :
Contributes to the superior user experience of HD Radio Technology. Presents song name, artist, station IDs, HD2/HD3 Channel Guide, and other relevant data streams.

- HD2/HD3** Adjacent traditional main stations are extra local FM channels. These HD2/HD3 Channels provide new, original music as well as deep cuts into traditional genre.

- Digital Sound** Digital, CD-quality sound. HD Radio Technology enables local radio stations to broadcast a clean digital signal. AM sounds like today's FM and FM sounds like a CD.

- iTunes® Tagging** iTunes® Tagging provides you the opportunity to discover a wide range of content and the means to "tag" that content for later review and purchase from the iTunes® Store. Also refer to the Apple Automotive specifications for implementing iTunes® Tagging.

HD Radio™ Mode

HD Radio™ Mode

Starting Mode

Press the **FM/AM** key to turn on Radio mode.



If an HD Radio™ broadcast is received, the radio mode will switch from analog broadcast to HD Radio™ broadcast.

i Information

- The HD Radio™ screen is displayed only when a HD Radio™ broadcast is being received.
- To ensure HD Radio™ stations are received, turn the feature on at **i** key **HD Radio**.

Operating HD Radio™ Mode

Selecting a Frequency



As HD Radio™ reception 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™ related icon display will become active when within regions where an HD Radio™ signal can be received.

Using TUNE

Turn the **TUNE** knob left/right to select the frequency.



Selecting through Preset



From the 6 presets, select the HD Radio™ broadcast you want to listen to.

i Information

- For HD Radio™ broadcast channels without sub channels, sub channels will be skipped and only main channels will be received.

Song-Tagging

The song tagging feature provides a way to capture broadcasted song information from the radio for future purchase in iTunes.

Upon connection of an Apple audio playback device, the "tagged songs" will be transferred to your iTunes account in your Tagged songs folder.

i Information

- Up to 50 songs can be saved if an iPod device is not connected.
- Song data can be transferred to an iPod only if there is available space within the device.

HD Radio™ Digital Broadcast On/Off

Press the **i** key Press the **HD Radio** Press **On** / **Off** .



HD Radio™ Broadcasts can be turned On and Off for HD Radio™ FM and AM mode.

HD Radio™ Mode

SIRIUS Mode

Basic Mode Screen



Name	Description
1 Mode Display	Displays currently operating mode
2 Preset	The desired frequency can be saved as a preset and selected
3 SIRIUS Logo	Display the SIRIUS logo
4 Channel Number	Displays the current channel number
5 Category mode indicator	Displays the category mode in orange
6 Channel mode indicator	Displays the channel mode in orange
7 Setting Display	Displays the indicator if Scan/Preset Scan is operating
8 Category name	Displays the category name
9 Channel name	Displays the channel
10 Title name	Displays the title name
11 Artist name	Displays the artist name
12 Composer name	Displays the composer name
13 Search	Used to search for channels by entering channel numbers
14 Preset Scan	Plays preset frequencies for 10 seconds each
15 Scan	Plays all receivable channels for 10 seconds each
16 Menu	Displays Search, Preset Scan and Scan menus
17 Category Selection Buttons	Used to select the previous/next category
18 List	Displays SIRIUS Radio Categories/Channel Lists

Starting Mode

Press the **SAT** key to change the mode in order of SIRIUS1 SIRIUS2 SIRIUS3.



When the power is OFF, pressing the **SAT** key will turn the power on and play an SIRIUS Radio broadcast.

Using SEEK

Press the **SEEK** , **TRACK** key on the control panel for under 0.8 seconds.

The previous or next channel will be selected.

i Information

- Within category mode, channels within the current category will be played.
- Within channel mode, all channels in all categories will be played.
- If no operation for 5 seconds during category mode, it goes back to the channel mode automatically.

Using TUNE

Turn the **TUNE** knob left/right to display the previous or next channel information.



After a brief moment, the selected channel will be displayed.

Selecting Presets



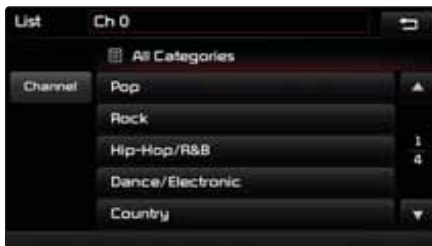
SIRIUS Mode

From the 6 presets, select the channel you want to listen to.

SIRIUS Mode

Selecting through Channel/Category List

Press the **List** button. Select the desired category and channel.



Select the desired category and the channel. Once selected, the previous screen will be restored and the selected channel will begin playing.

Saving SIRIUS Channels



Saving Manually

After selecting channel. Press and hold (over 0.8 seconds) the preset button.

A confirmation 'beep' will be heard and the channel will be saved to the selected preset button.

i Information

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

Using the Menu Buttons

Press the **Menu** button to use the Search, Preset Scan, and Scan menus.



Search

Press the **Menu** button Press
Search Enter numbers and press
Done .



Enter the number of the channel you want to receive.

Preset Scan

Press the **Menu** button Press
Preset Scan .

Channels saved to the 6 preset buttons are each played for 10 seconds and then the previous channel is restored.

Scan

Press the **Scan** button to scan all channels.



Starting from the current channel, channels with superior reception are scanned for 10 seconds and the previous channel is restored once scanning is complete.



SIRIUS Mode

Disc

About Disc

Precautions upon Handling Discs

- ❑ After using a disc, put the disc back in its original case to prevent disc scratches.
- ❑ Do not use abnormally shaped discs (8cm, heart-shaped, octagon-shaped) as such discs could lead to malfunctions.
- ❑ Do not clean discs with chemical solutions, such as record sprays, antistatic sprays, antistatic liquids, benzene, or thinners.
- ❑ Do not expose the disc to direct sunlight or high temperatures for prolonged periods of time. Such exposure may lead to disc deformation.
- ❑ Upon playing a disc contaminated by dirt or other substances, the sound quality may deteriorate and result in skipping sounds. Writing on either side of the disc could result in damage to disc surfaces.
- ❑ Clean fingerprints and dust off the disc surface (coated side) with a soft cloth.
- ❑ Copy-protected CDs, such as S-type CDs, may not properly operate in the device. DATA CDs cannot be played. (However, such discs may still abnormally operate.)
- ❑ Do not disassemble the device. Contact a designated service center in case of malfunction. (Complete after service assistance will not be provided if the user disassembles the device.)
- ❑ Do not use water to clean the device. Exposure to water could lead to product malfunction.
- ❑ Do not introduce foreign substances into the disc insert/eject slot. Introducing foreign substances could damage the device interior.
- ❑ The device may fail to properly operate in extremely hot or cold temperatures. (The operating temperature range is : 14°F ~ 150°F)
- ❑ Steam can become condensed on the fiber-optic lens due to rain, wet conditions, or upon operating the heating system. In such cases, discs may not be properly recognized. Remove the disc and wait until the moisture dries.
- ❑ Skipping may occur during audio play when driving on bumpy roads for prolonged periods of time or upon severe shock to the vehicle. In case of severe shock, audio may not properly play.

Supported Disc Formats

This device supports the following disc formats.

Disc Type

Disc Type	Disc Format	Device Support
CD	3inch (8cm)	X
	5inch (12cm)	
	CD	
	CD-R CD-RW Multisession-CD	
SACD	SACD (Single, SACD layer)	X
	SACD (Hybrid)	

Disc Format

Disc Type	Disc Format	Device Support
CD	CD-DA	X
	MP3	
	WMA	
	MPEG4 AAC	
	DTS-CD	
	CD-ROM	X
	CD-G	
	CD-EXTRA	
	CD-TEXT	

Disc/Content Format Compatibility

By Format according to Disc Type

Disc Type	Disc Format	Device Support
CD	LPCM	
MP3	MPEG1, Layer3	
	MPEG2, Layer3	
	MPEG2.5	
WMA	Ver9	

Ordinary Disc Compatibility

This device has been designed/ manufactured to be compatible with software bearing the following logo marks.



- CD-R/RW discs (Audio CD) created with CD recording devices or PCs may not properly operate in the device. This is a result of various causes, including disc format, recording method, and contamination to the disc or lens.



Disc

Disc

CD-R/RW Compatibility

- This device supports CD-R, CD-RW, and MP3 discs burned in Audio CD formats.
- The recording of CD-R and CD-RW discs with this device is not supported.
- CD-R/RW discs recorded as audio CDs that were not finalized are not supported by this device.

PC-created Disc Compatibility

- When burning a disc on a PC, the disc may not operate in this device depending on the software settings. In such cases, inquire with the software manufacturer.
- Additional information regarding compatibility is displayed on the CD-R/RW software disc box.
- DVD-R/W discs are not compatible with this device.

Cautions upon Writing CDs

- When a multi-session disc is being recorded, make sure to close the session before recording.
- If MP3/WMA file extensions are changed, such could result in malfunctions.
- In the case of MP3/WMA, write using only English. (Other languages are not supported)
- Unauthorized use of copy-protected music files is prohibited by law.
- Prolonged use of CD-R/CD-RW products that do not satisfy related specifications may result in product malfunction.
- When writing CDs, low-speed writing is recommended.

Compressed Audio Compatibility

- Physical formats of CD : Model 1, Model 2 XA format 1.
- This device supports audio file compressed through MPEG-1 audio stream layer 3 (MP3) using 8kbps ~ 320kbps. (CBR or VBR)
- For stable operation, the use of files in 95kbps~192kbps bit rate range and 44.1kHz SAMPLING frequency is recommended.
- This device supports WMA audio files using 20kbps ~ 320kbps. (CBR or VBR)
- Variable bit rate files may operate, but the play time information may not be properly displayed.
- This device only supports tracks with file extension of ".mp3" or ".wma".
- This device does not support multisession discs.
- This device supports only 8 layer folders.

- This device supports MP3 ID3 tag versions of Ver. 1.0, Ver. 1.1, Ver. 2.2, Ver. 2.3, Ver. 2.4. When using discs with other versions, the ID3 info will not be displayed.
- Although this device has been designated to be compatible with various bit rates, playing low bit rate MP3 tracks may result in low quality sound.

Before Playing an MP3 Disc

Supported MP3 File Specification

- Acceptable standard: MPEG1 Audio Layer 3.
- Acceptable sampling frequency : 8, 11.025, 12, 16, 22.05, 24, 32, 44.1, 48(KHz).
- Acceptable bit rate : 8 ~ 320 (Kbps).

Recommended Bit Rates and Frequency

- Sampling frequency : 96 ~ 192 Kbps fixed bit rate/4.1kHz.

NOTICE

- Supported ID3 tags : ID3v1.0, ID3v1.1, ID3v1.2, ID3v2.2, ID3v2.3, ID3v2.4.
 - Supported MP3 Media : CD-ROM.
 - Supported media formats : ISO9660 LEVEL1 and LEVEL2.
-

Detailed Specification

- 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 per disc : 256 folders. (including ROOT)
- Maximum number of files per disc : 512 files.

Precautions upon Burning MP3 Files

- The use of ISO 9660 LEVEL 2 JOLIET format is recommended.
- Up to 32 characters in Korean/Chinese are supported for file names and up to 20 characters in Korean/Chinese are supported for folder names.
- The use of CDs exceeding 700MB may result in faulty disc recognition or errors upon play.

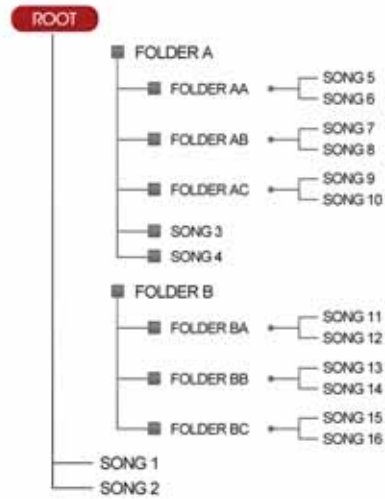


Disc

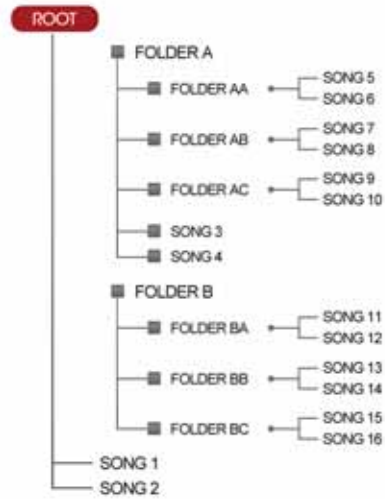
Disc

MP3 File Structure

Recognition occurs through the same folder structure used within the disc.



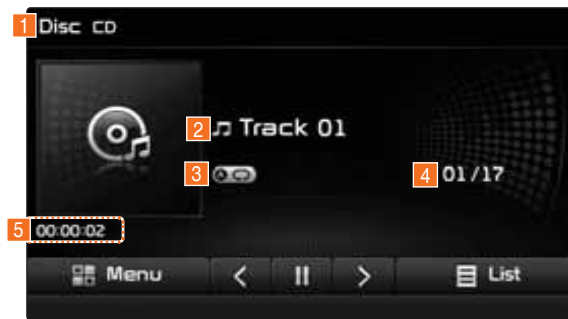
Folder structure as saved in CD-ROM



Folder structure as saved in the system

CD Mode

Basic Mode Screen



Name	description
1 Mode	Displays currently operating mode
2 Track	Track number of current song
3 Repeat/ Shuffle/ Scan	From Repeat/Shuffle/Scan, displays the currently operating function
4 Track Index	Shows the current track/total tracks
5 Play Time	Displays the current play time
6 Repeat	Repeats the current track
7 Shuffle	Plays disc tracks in random order
8 Scan	Scans the beginning parts of disc tracks (approx. 10 seconds per track)
9 Info Off (Info On)	<ul style="list-style-type: none"> Info Off : shows only track info Info On : shows track info, artist and album info Empty when there is no corresponding information
10 Menu	Displays Repeat, Shuffle, Scan, and Info On (Info Off) menus
11 Artist Info	Displays artist info for current song (Will not be displayed if the information does not exist)
12 Album Info	Displays album info for current song (Will not be displayed if the information does not exist)
13 Previous Track	<ul style="list-style-type: none"> When the play time is under 2 seconds : Moves to the previous track When the play time is over 2 seconds : Plays the current song from the beginning
14 Play/Pause	Plays/pauses the current track
15 Next Track	Moves to the next track
16 List	Moves to the track list screen

CD Mode

CD Mode

Starting Mode

Press the **MEDIA** key Press **CD**.



NOTICE

- Only genuine audio CDs are supported. Other discs may result in recognition failure. (e.g. copy CD-R, CDs with labels)

Information

- CD mode will automatically start once a CD is inserted.

Playing a CD



- Press the **▶** button to play the track.
- Press the **⏸** button to pause the track.

Fast-forwarding or Rewinding CD Tracks

While playing Press and hold the **SEEK**, **TRACK** key. (over 0.8 seconds)



This will rewind or fast-forward the track. While the **SEEK**, **TRACK** key is being pressed, the track will rewind or fast-forward at 20x speed. Once released, the track will begin playing at normal speed.

Searching CD Tracks

Turn the **TUNE** knob Search tracks
 Once the desired track name is displayed, press the **TUNE** knob.



When searching tracks, the track number is displayed in orange. Pressing the **TUNE** knob will play the corresponding track.

i Information

- If the **TUNE** knob is not pressed within 5 seconds of searching tracks, the track info for the current track is restored.

Using the Menu Buttons

Press the **Menu** button to set the repeat, shuffle, scan and Info On/Info Off menus.



Repeat

Press the **Menu** button Press **Repeat**.

The current track is repeated.

i Information

- Press the **Repeat** button again to turn off repeat. If nothing is selected, then all tracks will be played in sequential order.

Shuffle

Press the **Menu** button Press **Shuffle**.

Tracks within the disc are played in random order.

i Information

- Press the **Shuffle** button again to turn the shuffle option off.

CD Mode

Scan

Press the  **Menu** button. Press  **Scan**.


The beginning (approx. 10 seconds) of all tracks within the CD are scanned.


Information

- Press the  **Scan** button again to turn the scan option off.

Info On/Info Off

Press the  **Menu** button. Press  **Info On**.

The amount of information displayed on the screen can be selected. When the title, artist, and album info are displayed, the button will automatically change to  **Info Off**.

Press  **Info Off** to restore the previous information display setting.

Information

- Artist/album info is supported within Text CDs.

MP3 CD Mode

Basic Mode Screen

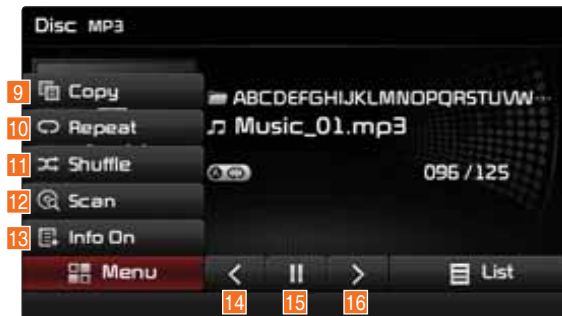


Name	Description
1 Mode	Displays currently operating mode
2 Folder Name	Displays folder name for current file
3 File Name	Displays the name of the current file
4 Repeat/Shuffle/Scan	From Repeat/Shuffle/Scan, displays the currently operating function
5 File Index	Shows the current MP3 file/total number of MP3 files
6 Play Time	Displays the current play time
7 Menu	Displays Copy, Repeat, Shuffle, Scan and Info On (Info Off) menus
8 List	Moves to the list screen

MP3 CD Mode

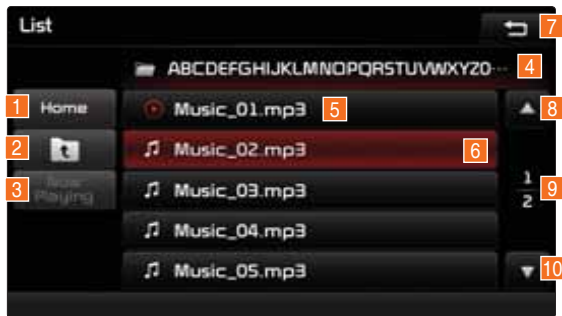
MP3 CD Mode

Basic Mode Screen



Name	Description
9 Copy	Copies the currently playing file into My Music
10 Repeat	Repeats the current file
11 Shuffle	Plays files in random order
12 Scan	Scans the beginning parts of MP3 files (approx. 10 seconds per file)
13 Info Off (Info On)	Changes the display method between Info Off/Info On <ul style="list-style-type: none">Info Off : shows folder name/file nameInfo On : shows folder name, file name, title, artist, and album info
14 Previous file	<ul style="list-style-type: none">When the play time is under 2 seconds : Moves to the previous fileWhen the play time is over 2 seconds : Plays the current file from the beginning
15 Play/Pause	Plays/pauses the current file
16 Next file	Moves to the next file

List Menu Screen



Name	Description
1 Home Folder	Moves to home folder
2 Parent Folder	Moves to the parent folder
3 Now Playing	When moving to a different list screen, moves to the list page where the current file is located (Becomes disabled when the current list includes the current file)
4 Folder Name	Folder name of current list
5 Current Song	Shows current playing file name
6 List Focus	Creates focus upon operating Tune
7 Back button	Converts to basic mode screen
8 Previous list	Moves to the previous list
9 List page	Shows current file list page/total number of pages
10 Next list	Moves to the next list

MP3 CD Mode

MP3 CD Mode

Starting Mode

Press the **MEDIA** key Press **MP3**.



i Information

- MP3 mode automatically starts when an MP3 disc is inserted.
- If there are numerous songs and folders within the disc, reading time could take more than 10 seconds and the list may not be displayed or song searches may not operate. Once loading is complete, try again.
- Only genuine audio CDs are supported.
- Other discs may result in recognition failure. (e.g. copy CD-R, CDs with labels)

Playing MP3



- Press the **▶** button to play the file.
- Press the **||** button to pause the file.

Selecting MP3 files

Selecting from the Mode Screen

- Press the **SEEK** , **TRACK** key to select the previous or next file.
- Pressing and holding the **SEEK** , **TRACK** key will rewind or fast-forward the current file.



Using Menus within List Screen

Press the **List** button Select the file from the list.



Fast-forwarding or Rewinding MP3 Files

While playing Press and hold the **SEEK** , **TRACK** key. (over 0.8 seconds)

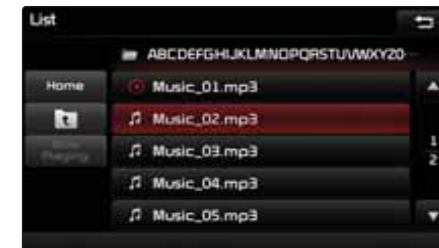
This will rewind or fast-forward the file.

While the **SEEK** , **TRACK** key is being pressed, the file will rewind or fast-forward at 20x speed.

Once released, the file will begin playing at normal speed.

Searching MP3 Files

Turn the **TUNE** knob Search files
Once the desired file name is displayed, press the **TUNE** knob.



When searching files, pressing the **TUNE** knob will play the file highlighted in orange.

Information

- If there are no operations within 5 seconds, info on the current song will be re-displayed.

MP3 CD Mode

MP3 CD Mode

Using the Menu Buttons

Press the **Menu** button to set the copy, repeat, shuffle, scan, and Info On/Off options.



Copy

Press the **Menu** button Press **Copy**.

The currently playing file is copied and saved in My Music.

i Information

- Copied and saved files can be played within My Music mode.

Repeat

Press the **Menu** button Press **Repeat**.

Each time the button is pressed, the option is changed from Repeat Once Off (Repeat All).

i Information

- Repeat Once : repeats the current file.
- Repeat Folder : repeats all files in current folder.

Shuffle

Press the **Menu** button Press **Shuffle**.

Each time the button is pressed, the option is changed from Shuffle Folder Shuffle All Off (Repeat All).

i Information

- Shuffle Folder : plays files in current folder in random order.
- Shuffle All : plays all files in DISC in random order.

Scan

Press the **Menu** button Press **Scan**.

Each time the button is pressed, the option is changed from Folder Scan Scan All Off (Repeat All).

i Information

- Folder Scan : scans files in current folder.
- Scan All : scans all files in the disc.

Info On/Info Off

Press the **Menu** button Press **Info On**.

The amount of information displayed on the screen can be changed.

When the title, artist, and album info are displayed, the button will automatically change to **Info Off**.

Press **Info Off** to restore the previous information display setting.

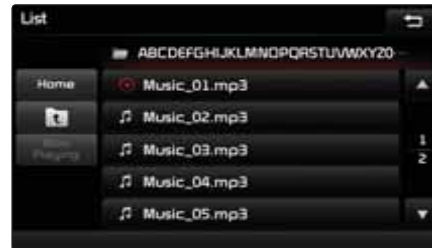
NOTICE

- The title, artist and album info are displayed only when such information is recorded within the MP3 file ID3 tag.

Using Menus within the List Screen

Moving between Lists

Press the **List** button Press the **▲**, **▼** buttons.



If five (5) or more files or folders exist in the same folder, the list will be displayed across two or more pages.

Press the **▲**, **▼** cursor buttons to quickly find the desired page.

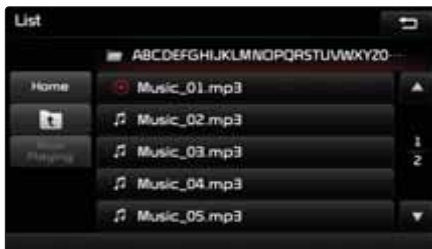
i Information

- A lag may occur in displaying the previous/next list page depending on the file name or file size.

MP3 CD Mode

Moving between Folders

Press the **[Up]** button. Select folder from the folder list.



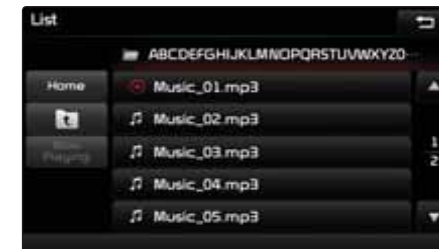
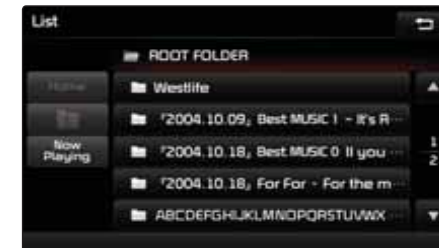
Pressing the **[Up]** button will move to the folder one level above the current folder. Pressing the **Home** button folder will move to the root folder.

Information

- If there are no more parent folders, both **Home**, **[Up]** buttons will be disabled.

Returning to Current Location

While searching files within other folders, press the **Now Playing** button to return to the currently playing file screen.



USB Mode

About USB

Before Playing a USB MP3

Connect the USB device after turning on the engine. The USB device may become damaged if it is already connected when the ignition is turned on.

- Files that are not standard format music/image files will not be played.
- For MP3/WMA files, only music files with compression rates between 8Kbps ~ 320Kbps can be played.
- Heed caution to static electricity when connecting/disconnecting external USB devices.
- Encoded MP3 Players will not be recognized when connected as an external device.
- When connecting an external USB device, the device may not properly recognize the USB in some states.
- Only products formatted with byte/sectors under 64Kbyte will be recognized.

- This device recognizes USB devices formatted in FAT 12/16/32 file formats. This device does not recognize files in NTFS file format.
- Some USB devices may not be supported due to compatibility issues.
- Take caution so that the USB connector does not come in contact with body parts or objects.
- Repeated connecting/disconnecting of USB devices within short periods of time may result in product malfunction.
- Make sure to connect/disconnect external USB devices with the audio power turned off.
- 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 required time are not indications of malfunction.
- The use of USB devices for purposes other than playing music and image files is prohibited.
- Do not use the USB I/F to charge batteries or USB accessories that generate heat. Such acts may lead to worsened performance or damage to the device.

USB Mode

- ❑ The device may not recognize the USB device if separately purchased USB hubs and extension cables are being used. Connect the USB directly with the multimedia terminal of the vehicle.
- ❑ When using mass storage USB devices with separate logical drives, only files saved to the root drive can be played.
When application programs are installed to specific USBs, files may not properly play.
- ❑ The device may not operate normally if MP3 Players, cellular phones, digital cameras, or other electronic devices (USB devices not recognized as portable disk drives) are connected with the device.
- ❑ Charging through the USB may not work for some mobile devices.
- ❑ The device may not support normal operation when using a USB memory type besides Metal Cover Type USB Memory.
- ❑ The device may not support normal operation when using formats such as HDD Type, CF, or SD Memory.
- ❑ Upon playing iPods, please use a dedicated iPod car cable.
- ❑ Normal operations cannot be guaranteed when other cables are being used.
- ❑ The device will not support files locked by DRM. (Digital Rights Management)

- ❑ USB memory sticks used by connecting an Adaptor (SD Type or CF Type) may not be properly recognized.
Only use Plug type connector products, as shown in the figure below.



Plug Type Connector

Product Name	Manufacturer
XTICK	LG
BMK	BMK Technology
SKY-DRV	Sky Digital
TRANSCEND JetFlash	Transcend
Sandisk Cruzer	SanDisk
Micro ZyRUS	ZyRUS
NEXTIK	Digiworks

i Information

- Problems that occur through use of USB devices not listed within the above table are not covered by the product warranty.

USB MP3 Information and Precautions

Name	Description
MP3 File Specification	Specification : MPEG1 AUDIO LAYER 3
Recommended Bit Rates and Sampling Frequency	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)
	96, 128, 192 Kbps fixed bit rate/44.1KHz
ID3 Tag	Supports ID3v1.0 and ID3v1.1, ID3v2.2, ID3v2.3, ID3v2.4 ID3 tags
Detailed Specifications	Maximum directory layers : 20 layers Maximum length of folder name/file name : 255Bytes Supported characters for folder name/file name : Alphanumeric characters, Korean standard character set 2,350 characters, Simplified Chinese 4888 characters Maximum number of folders which can be stored onto one USB : 2000 folders (including ROOT) Maximum number of files which can be stored onto one USB : 8000

Information

- The sound quality of MP3 files that use bitrates exceeding 192 Kbps cannot be guaranteed. When using files without fixed bit rates, some features (FF/REW features) may not properly operate.
-



USB Mode

USB Mode

Basic Mode Screen

USB Music Mode



Name	Description
1 Mode	Displays currently operating mode
2 Folder Name	Displays the name of the current folder
3 File Name	Displays the name of the current file
4 Repeat/Shuffle/Scan	From Repeat/Shuffle/Scan, displays the currently operating function
5 Play Time	Displays the current play time/total play time
6 File Index	Shows the current file/total files within the USB
7 Menu	Displays Copy, Repeat, Shuffle, Scan and Info On (Info Off) menus
8 List	Moves to the list screen



Name	Description
9 Copy	Copies the currently playing file into My Music
10 Repeat	Repeats the current file
11 Shuffle	Plays files in random order
12 Scan	Scans the beginning parts of USB files (approx. 10 seconds per file)
13 Info Off (Info On)	<ul style="list-style-type: none"> Info Off : shows folder name/file name Info On : shows folder name, file name, title, artist, and album info
14 Previous File	<ul style="list-style-type: none"> When the play time is under 2 seconds : Moves to the previous file When the play time is over 2 seconds : Plays the current file from the beginning
15 Play/Pause	Plays/pauses the current file
16 Next File	Moves to the next file



USB Mode

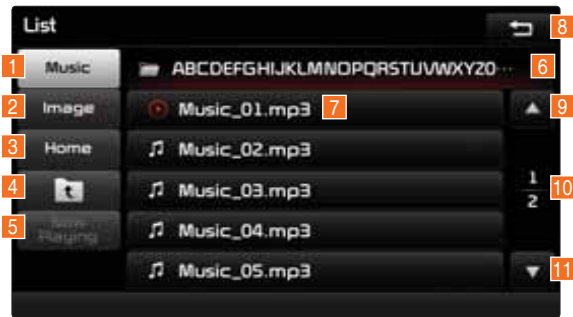
USB Mode

USB Image Mode



Name	Description
1 Mode	Displays currently operating mode
2 Folder Name	Displays folder name where image is located
3 File Name	Name of image file
4 File Index	Shows the current image file/total image files within the USB
5 Menu	Displays Slideshow, Rotate Image, Adjust Image Size, Save Image, and Info menus (Press the button again to hide the buttons)
6 Previous Image	Shows previous image
7 Next Image	Shows next image
8 List	Moves to the list screen
9 Slideshow	View images as slideshow in 5, 10, 20, 30 second intervals
10 Rotate Image	Rotate image in clockwise direction
11 Adjust Image Size	Enlarge/reduce (zoom-in/zoom-out) image size
12 Save Image	Add image as frame screen displayed when the system power is turned off
13 Info	Shows the file name, resolution and file type of current image

Menu List Screen



Name	Description
1 Music	Shows the Music list (Disabled when Music list does not exist)
2 Image	Shows the Image list (Disabled when Image list does not exist)
3 Home Folder	Moves to home folder
4 Parent Folder	Moves to the parent folder
5 Now Playing	When moving to a different list screen, moves to the list page where the current file is located (Becomes disabled when the current list includes the current file)
6 Folder Name	Folder name of current list
7 Current Song	Shows current playing file name
8 Back Button	Converts to basic mode screen
9 Previous List	Moves to the previous list
10 List Page	Shows current file list page/total number of pages
11 Next List	Moves to the next list

USB Mode

USB Mode

Starting USB Music Mode

Press the **MEDIA** key

Press **USB Music**.



If the USB is not connected, then the **USB Music** button will be disabled.

i Information

- Once a USB is connected, USB Music mode will operate automatically.
- If a previously played USB is reconnected, then the song after the most recently played song is played. However, if a different USB is connected or the file information within the USB was changed, then the USB file order information is deleted and will start playing from the first song within the USB.

Playing USB Music



- Press the **▶** button to play the USB Music.
- Press the **⏸** button to pause USB Music.

Searching USB Music Files

While Playing Press the < , > buttons or the ▾SEEK , TRACK^ key to play the previous/next file.



- Pressing and holding the ▾SEEK , TRACK^ key (over 0.8 seconds) will rewind or fast-forward the current file.
- While the ▾SEEK , TRACK^ key is being pressed, the track will rewind or fast-forward at high speeds. Once the key is released, the USB Music will begin playing at normal speed.

i Information

- The < , > buttons displayed on the screen allow you to select the previous/next file. These buttons will not rewind or fast-forward the file.

Using the Menu Buttons

Press the Menu button to set the Copy, Repeat, Shuffle, Scan, Info On (Info Off) menus.



Copy

Press the Menu button Press Copy .

The currently playing file is copied and saved in My Music.

USB Mode

USB Mode

i Information

- Copied and saved files can be played within My Music mode.
-

NOTICE

- Time required to copy files into My Music is approximately 3 seconds per 1 USB MP3 file (4mb), yet this may slightly differ depending on the file size and system conditions.
 - Time required to copy files into My Music is approximately 1 minute and 17 seconds per 1 CD MP3 file, yet this may slightly differ depending on the file size and system conditions.
 - When copying is in progress, AV, Bluetooth and Voice Recognition features cannot be used.
 - When copying is in progress, AV and Bluetooth features cannot be used.
-

Repeat

Press the  **Menu** button Press  **Repeat** .

Each time the button is pressed, the option is changed from Repeat Once Repeat Folder Off(Repeat All).

i Information

- Repeat Once : Repeats the current file.
 - Repeat Folder : Repeats all files in current folder.
-

Shuffle

Press the  **Menu** button Press  **Shuffle** .

Each time the button is pressed, the option is changed from Shuffle Folder Shuffle All Off(Repeat All).

i Information

- Shuffle Folder : Plays files within the current folder in random order.
 - Shuffle All : Plays files within the USB in random order.
-

Scan

Press the  **Menu** button Press  **Scan** .

Each time the button is pressed, the option is changed from Folder Scan Scan All Off(Repeat All).

i Information

- Folder Scan : Searches files within the current folder.
 - Scan All : Scans files within the USB in random order.
-

Info On/Info Off

Press the **Menu** button Press **Info On** .

The screen display can be set differently depending on user selection.

When the title, artist, and album info are displayed, the button is changed to **Info Off** .

Press **Info Off** to restore the previous information display setting.

i Information

- The title, artist, and album info are displayed only when such information is recorded within the MP3 file ID3 tag.

NOTICE

- The title, artist and album info are displayed only when such information is recorded within the MP3 file ID3 tag.

Starting USB Image Mode

Press the **MEDIA** key Press **USB Image** .



Searching USB Image Files

While playing Press the **<** , **>** buttons to view the previous/next image.



USB Mode

i Information

- Press the **List** button to view the list of USB images.

USB Mode

Using the Menu Buttons

Press the **Menu** button to set the Slideshow, Rotate Image, Adjust Image Size, Save Image and Info menus.



Slideshow Interval

Press the **Menu** button. Press **Slideshow**.



Image slideshow intervals can be set at **5sec**, **10sec**, **20sec**, or **30sec** intervals.

Rotating Image

Press the **Menu** button. Press **Rotate Image**. Press **Done**.



Each time the **Rotate** button is pressed, the image is rotated from 0° 90° 180° 270° degrees.

i Information

- Rotated images are not saved.
- The image will be restored to its original position when returning to it after viewing a different image.

Adjusting Image Size

Press the **Menu** button Press
Adjust Image Size Press **Done** .



Press the **-** , **+** buttons to enlarge or reduce the image size. The scale can be changed to x1/4, x1/2, x1, x2, x4.

i Information

- Enlarged or reduced images are not saved. The image will restore its original size when returning to it after viewing a different image.
 - If the image cannot be fully displayed on the screen, touch the image to move the screen.
-

Saving Image

Press the **Menu** button Press
Save Image .

i Information

- For details on using the picture frame, refer to the Picture Frame Settings within Setup.
-

Viewing Info

Press the **Menu** button Press **Info** .

This menu is used to check image information, such as the image resolution and file type.

iPod Mode

Using iPod Devices

- ❑ iPod® is a registered trademark of Apple Inc.
- ❑ iPod mode will not operate if the connected iPod cannot be recognized due to operation of unsupported versions that do not support related protocols, iPod abnormalities, or iPod device defects. Some iPods with unsupported communication protocols may not properly operate with the Navigation system.
- ❑ For fifth generation iPod Nano devices, the iPod may not be recognized when the battery level is low. Please charge the iPod for use.
- ❑ Search/play orders shown within the iPod device may differ with the orders shown within the Navigation system.
- ❑ If the iPod malfunctions due to an iPod device defect, reset the iPod and try again. (To learn more, refer to your iPod manual)
- ❑ For some iPod Touch and iPhone devices, connecting Bluetooth® while the iPod is operating may result in discontinued iPod sound. When such devices with Bluetooth® support are connected, this problem occurs as the sound source is changed from the Dock Connector (USB connector cable) to Bluebird. (Bluetooth® Module)
- ❑ To listen to the iPod sound, reconnect the USB cable or exit then re-enter iPod mode.
- ❑ In order to use the iPod while operating the keys, you must use a dedicated iPod cable. (the cable that is supplied when purchasing iPod/iPhone products)
During ACC ON state, connecting the iPod through the iPod cable (The cable that is supplied when purchasing iPod/iPhone product.) will charge the iPod through the head unit.
The use of genuine iPod cables supplied by Apple is recommended. (The use of other products may result in noise or abnormal operation.)
- ❑ When connecting with the iPod cable, make sure to fully insert the jack to prevent communication interference. If the iPod is connected to the vehicle while it is playing, a high pitch tone may sound for about 1~2 seconds immediately after connection. If possible, connect the iPod to the vehicle with the iPod stopped/paused.
- ❑ Within iPhones, streaming audio and iPod control may occasionally conflict. If problems persist, remove the iPhone and connect again.
- ❑ Some iPod versions may not sync with the system. In such cases, the system may not properly restore the previously operated mode. (For iPads, battery charging is not supported.)
- ❑ Applications that are not exclusively used as iPod Applications within iPhone/iPod Touch devices are not supported.

Steps upon Initial Connection

Search Steps may differ depending on the type of iPod device.

	1 Step	2 Step	3 Step	4 Step	5 Step
Play List	Play List	Play List name (category is same as iPod)			
Artist	Artist	Artist	Album Name	Song Name	
Album	Album	Album Name	Song Name		
Genre	Genre	Genre Name	Artist Name	Album Name	Song Name
Song	Song	Song Name			
Composer	Composer	Composer Name	Album Name	Song Name	

Supported iPod Devices

- Operation is supported and Apple Inc. certified :
- Operation is supported but uncertified :

Device/ Generation	1st	2st	3st	4st	5st	6st
iPod Mini	Not Supported					
iPod Shuffle	Not Supported					
iPod Nano						
iPod Touch					Not Released	
iPod Classic	Not Supported				(iPod with video)	(iPod Classic)
iPad				Not Released		
Device/Type	3GS	4G	4S	5G		
iPhone						



iPod Mode

iPod Mode

Basic Mode Screen




Name	Description
1 Mode	Displays currently operating mode
2 Title	Displays name of current title
3 Artist Info	Artist name
4 Album Info	Album name
5 Repeat/Shuffle	From Repeat/Shuffle, displays the currently operating function
6 File Index	Shows the current file/total files within the iPod
7 Play Time	Displays the current play time/total play time
8 Repeat	Repeats the currently playing file
9 Shuffle	Plays files in random order
10 Info Off (Info On)	Changes the display method between Info Off/Info On <ul style="list-style-type: none"> Info Off : Shows title, artist, and album Info Info On : Shows title, artist, album, genre, and composer info
11 Menu	Displays Repeat, Shuffle, and Info On (Info Off) menus
12 Previous File	Moves to the previous file
13 Play/Pause	Plays/pauses the current file
14 Next File	Moves to the next file
15 List	Moves to the list screen

Starting Mode

Press the **MEDIA** key Press

 iPod



If the iPod is not connected, then the  iPod button will be disabled.

i Information



- Once an iPod is connected, iPod mode will operate automatically.

NOTICE

- Some iPods with unsupported communication protocols may not properly operate with the Audio system.

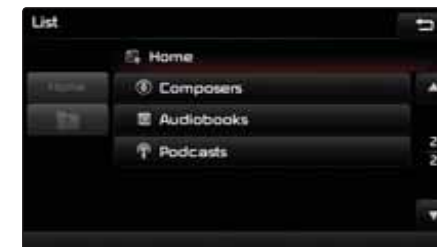
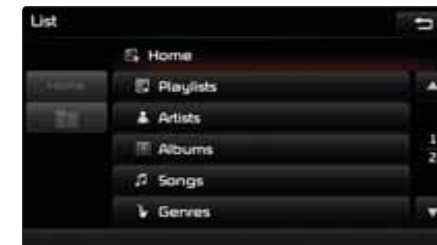
Playing iPod



- Press the  button to play the iPod.
- Press the  button to pause the iPod.

Searching iPod

Press the  List button to display the initial iPod list screen.



When searching an iPod, it is possible to search by Playlists, Artists, Albums, Songs, Genres, Composers, Audiobooks, and Podcasts.

iPod Mode

iPod Mode

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.
-

Selecting iPod Files

While playing Press the **<** , **>** buttons or the **∇SEEK** , **TRACK^** key to play the previous/next file.



Pressing and holding the **∇SEEK** , **TRACK^** key (over 0.8 seconds) will rewind or fast-forward the current song.

i Information

- While the **∇SEEK** , **TRACK^** key is being pressed, the track will rewind or fast-forward at high speeds. Once the key is released, the Music will begin playing at normal speed.
-

Searching iPod Files

Turn the **TUNE** knob Search files
Once the desired file name is displayed,
press the **TUNE** knob.



When searching files, the file number is displayed in orange. Pressing the **TUNE** knob will play the corresponding file.

i Information

- If there are no operations within 5 seconds, info on the current song will be re-displayed.
-

Using the Menu Buttons

Press the **Menu** button to set the Repeat, Shuffle, and Info On (Info Off) menus.



Repeat

Press the **Menu** button Press **Repeat**.

i Information

- The currently playing file is repeated.
 - Press the **Repeat** button again to turn off repeat.
-

Shuffle

Press the **Menu** button Press **Shuffle**.

i Information

- Each time the **Shuffle** button is pressed, the option is changed from Shuffle Category Shuffle Album Off.
 - Shuffle Category : Plays files within the current category in random order.
 - Shuffle Album : Plays files within the current category in random order.
-

Info On/Info Off

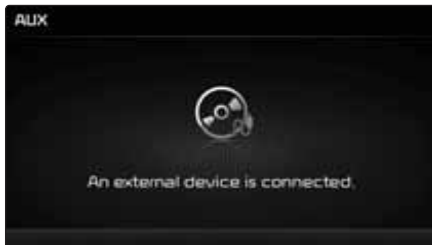
Press the **Menu** button Press **Info On**.

The screen display can be set differently depending on user selection. When the title, artist, and album info are displayed, the button **Info Off**. Press **Info Off** to restore the previous display setting.

AUX Mode

Starting Mode

Press the **MEDIA** key Press **AUX**.



i Information

- If an external device connector is connected with the AUX terminal, then AUX mode will automatically operate. Once the connector is disconnected, the previous mode will be restored.
- AUX mode can be used only when an external audio player (camcorder, car VCR, etc.) has been connected.
- The AUX volume can also be controlled separately through the connected device.

NOTICE

- If only cable connected to the AUX without an external device, the mode changed to AUX, but noise may occur. When an external device is not being used, remove the connector jack.
- When the external device power is connected to the power jack, playing the external device may output noise. In such cases, disconnect the power connection before use.

Connecting an External Device



External AUDIO players can be played through a dedicated cable. The position of the AUX jack is at the top of the gear box located between the driver and passenger seats.

i Information

- The color saturation option is not supported when using the PAL color system within this device.

Bluetooth® Audio Mode

Basic Mode Screen



Name	Description
1 Mode	Displays currently playing mode
2 Phone Name	Displays name of connected phone
3 Title	Name of current song
4 Artist Info	Name of current artist
5 Play	Plays Bluetooth® Audio
6 Pause	Pauses Bluetooth® Audio
7 Connections	Displays the Connections screen

Bluetooth® Audio Mode

i Information

- The title/artist info may not be supported in some mobile phones. When it is not supported, a symbol will be displayed.
- The play/pause feature may operate differently depending on the mobile phone.

Bluetooth® Audio Mode

Using Bluetooth® Audio Mode

- ▶ Bluetooth® Audio Mode can be used only when a Bluetooth® Audio Mode phone has been connected.
- ▶ While Bluetooth® Audio Mode is playing, if the Bluetooth® phone is connected, then the music will also stop.
- ▶ Bluetooth® streaming audio may not be supported with some mobile phones.

Starting Mode

Press the **MEDIA** key Press **Bluetooth Audio**.



i Information

- If the Bluetooth® device is not connected, then the **Bluetooth Audio** button will be disabled.

Playing Bluetooth® Audio



- Press the **▶** button to play files saved within the Bluetooth® phone.
- Press the **||** button to pause the file.

i Information

- If the Bluetooth® audio does not play, Press **i** key Press **Setup** **Bluetooth** **Streaming Audio Setting** If the option is set to **Off**, change to **On** and try again.

Selecting Bluetooth® Audio Files

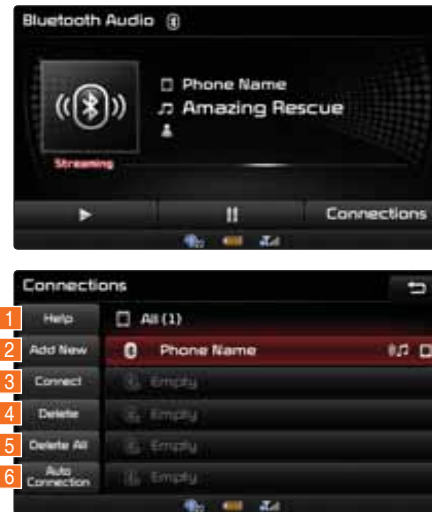
While playing Press the **SEEK** key
TRACK key Selects the previous/
 next file.

i Information

- The title/artist info may not be supported in some mobile phones. When it is not supported, only the symbol will be displayed.
- The play/pause feature may operate differently depending on the mobile phone.

Setting Connection

Press the **Connections** button to add a new Bluetooth® phone, connect/disconnect, delete, delete all, or view the Help section.



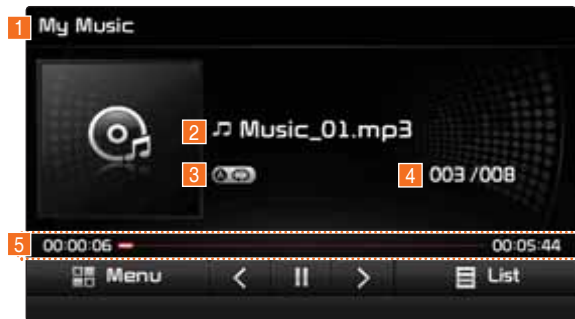
Name	Description
1 Help	Displays Bluetooth® Help screen
2 Add New	Pair a new Bluetooth® device
3 Connect/ Disconnect	Connect or disconnect a Bluetooth® device
4 Delete	Delete a paired Bluetooth® device
5 Delete All	Delete all paired Bluetooth® devices
6 Auto Connection	Set Bluetooth® phone Auto Connection upon starting car ignition

i Information

- If music is not yet playing from your mobile device after converting to streaming audio (Bluetooth® Audio) mode, pressing the **PLAY** button once may begin playing the music. Check to see whether music is playing from the Bluetooth® device after converting to streaming audio mode. The Streaming audio feature may not be supported in some mobile phones.
- For more information on mobile phone compatibility, visit the KIA Motor Company website (www.kia.com/bluetooth).

My Music Mode

Basic Mode Screen



Name	Description
1 Mode	Displays currently operating mode
2 File	Displays the name of the current file
3 Repeat/Shuffle/Scan	From Repeat/Shuffle/Scan, displays the currently operating function
4 File Index	Shows the current file/total files within the My Music
5 Play Time	Displays the current play time/total play time
6 Repeat	Repeats the current file
7 Shuffle	Plays files in random order
8 Scan	Scans the beginning parts of files (approx. 10 seconds per file)
9 Info Off (Info On)	Changes the display method between Info Off/Info On <ul style="list-style-type: none"> • Info Off : shows file name • Info On : shows file name, title, artist, and album info
10 Menu	Displays Repeat, Shuffle, Scan and Info On (Info Off) menus
11 Title Info	Displays the song title (Not displayed when information is not available)
12 Artist Info	Displays the artist information (Not displayed when information is not available)
13 Album Info	Displays the album information (Not displayed when information is not available)
14 Previous File	<ul style="list-style-type: none"> • When the play time is under 2 seconds : Moves to the previous file • When the play time is over 2 seconds : Plays the current file from the beginning
15 Play/Pause	Plays/pauses the current file
16 Next File	Moves to the next file
17 List	Moves to the list screen

Starting Mode

NOTICE

- My Music refers to a feature where music files (MP3, WMA) within USB memory drives or CDs are copied into the Navigation system to play them within the vehicle.

Press the **MEDIA** key Press **My Music**.



Playing My Music



- Press the **▶** button to play the file.
- Press the **||** button to pause the file.

Selecting My Music

While playing Press the **<**, **>** buttons or the **SEEK**, **TRACK^** key to play the previous/next file.



- Pressing and holding the **SEEK**, **TRACK^** key (over 0.8 seconds) will rewind or fast-forward the current file.
- While the **SEEK**, **TRACK^** key is being pressed, the track will rewind or fast-forward at high speeds. Once the key is released, the Music will begin playing at normal speed.

My Music Mode

My Music Mode

i Information

- The **<** , **>** buttons displayed on the screen allow you to select the previous/next file.
 - These buttons will not rewind or fast-forward the file.
-

Using the Menu Buttons

Press the **Menu** button to set the Repeat, Shuffle, Scan, Info On (Info Off) menus.



Repeat

Press the **Menu** button Press **Repeat** .

The currently playing file is repeated.

i Information

- Press the **Repeat** button again to turn off repeat. If nothing is selected, then all files will be played in sequential order.
-

Shuffle

Press the **Menu** button Press **Shuffle** .

When turned on, files are played in random order.

i Information

- Press the **Shuffle** button again to turn the shuffle option off.
-

Scan

Press the **Menu** button Press **Scan** .

The beginning (approx 10 seconds) of all files are scanned.

i Information

- Press the **Scan** button again to turn the scan option off.
-

Info On/Info Off

Press the **Menu** button Press **Info On**.

The screen display can be set differently depending on user selection.

When the title, artist, and album info are displayed, the button is changed to **Info Off**.

Press **Info Off** to restore the previous information display setting.

i Information

- The title, artist and album info are displayed only when such information is recorded within the MP3 file ID3 tag.
-

Using Menus within the List Screen

Moving between Lists

Press the **List** button Press **▲**, **▼**.



If six (6) or more files or folders exist in the same folder, the list will be displayed across two or more pages.

Press the **▲**, **▼** cursor buttons to quickly find the desired page.

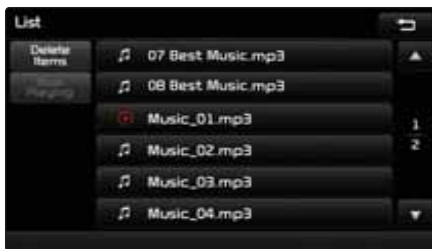
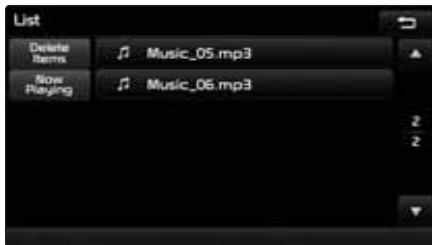


My Music Mode

My Music Mode

Returning to Current Location

While searching files within other folders, press the **Now Playing** button to return to the currently playing file screen.



Deleting Files

Press the **List** button. Select the files to delete. Press **Delete Items**.



i Information

- The audio system will not operate while files are being deleted.
- If the currently playing file is deleted, the next file will begin playing.

Using Setup

Basic Mode Screen

Press the  key Press  Setup to display the Setup screen.



Information

- UVO eServices are an optional feature equipped in select vehicles



Name	Description
1 Sound	Sets sound related settings
2 Display	Sets display related settings
3 HD Radio™	Sets HD Radio™ related settings
4 Bluetooth	Sets Bluetooth® related settings
5 Navigation	Sets various settings found within Navigation mode
6 My Places	Set/Edit My Places within Navigation Mode
7 Traffic	Sets Traffic Information related settings
8 UVO eServices (Optional)	Sets UVO eServices related Settings
9 Voice Recognition	Sets voice recognition related settings
10 Clock	Sets current time and clock display
11 Picture Frame	Sets screen display when device is turned off
12 Keyboard	Sets the keyboard type
13 Language	Sets language for use within the system
14 System Update	Checks system software version and receives updates
15 Display Off	Turn device display on/off (The device power will not be turned off)
16 Close	Close Setup menu screen

HD Radio™ Reception

Press the  key Press  Setup
Press  HD Radio Set and press
 Done .



These settings are used to set whether to turn HD Radio™ reception On/Off.

Name	Description
 FM-HD Radio™	Used to turn FM-HD Radio™ reception On/Off
 AM-HD Radio™	Used to turn AM-HD Radio™ reception On/Off



Appendix

Product Specification

TFT-LCD

Screen Size	Navigation Device - 20.32cm (176.4 x 99.36mm)		
Resolution	Navigation Device - 384,000 pixels (Resolution: 800 x 480)		
Operating Method	TFT(Thin Film Transistor) Active Matrix		
Viewing Angle	Left/Right, Top/Bottom : ALL 89°		
Internal Lighting	LED 18EA		

Radio

Channels	FM : 87.5 MHz ~ 107.9 MHz(Step : 200 kHz)		
	AM : 530 kHz ~ 1710 kHz(Step : 10 kHz)		
Sensitivity	FM : Under 10dBu/AM : Under 40dBu		
Distortion Factor	Within 2%	Speakers	2 ~ 8 Ω

Integrated Antenna

Operating Temperature	-30 ~ +85 (-22 ~ +185)	Storage Temperature	-40 ~ 105 (-40 ~ 220)
Dimensions	132.9mm(W) x 63.2mm(H) x 225.5mm(L)		
Weight	270g		

Common

Name	Car TFT LCD Display Navigation Unit		
Power Supply	DC 14.4V	Operating Power	DC 9V ~ DC 16V
Current Consumption	2.5A	Dark Current	2mA (Head Unit Only)
Operating Temperature	-20 ~ +70 (-4 ~ +158)	Storage Temperature	-30 ~ 80 (-22 ~ 176)
Dimensions	290mm(W) x 227mm(H) x 258mm(D)		
Weight	2.8Kg		

Bluetooth® Wireless Technology

Frequency Range	2402 ~ 2480 MHz	Supported Bluetooth® Specification	2.1 + EDR
Supported Profile	Handsfree(1.5), A2DP(1.0), AVRCP(1.3), PBAP(1.0), SPP(1.1)		
Output	0.05mW	Transmission	F1E, G1E
Number of Channels	79 channels		

⚠ CAUTION

- The producer and installer cannot provide services related to life safety as the concerned radio equipment is liable to radio interference.
-



Appendix

Before Thinking There is a Product Defect

The current position as shown on the navigation may differ from the actual position under the following conditions.

The following occurrences are not malfunctions :	
<ul style="list-style-type: none"> • When driving on Y-shaped roads with narrow angles the current position may be displayed in the opposite direction • Within city streets, the current position may be displayed on the opposite side or on an off-road position • When changing the zoom level from maximum to a different level, the current position may become displayed on a different road • If the vehicle is loaded onto a ferry or a car transport vehicle, the current position may become 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 passing an underground parking structure, building parking structure, or roads with many rotations • When driving in heavy traffic with frequent starts and stops 	<ul style="list-style-type: none"> • When driving under slippery conditions, such as heavy sand, snow, etc. • When driving on spiral-shaped roads • When the tires have recently been replaced (Especially upon use of spare or studless tires). • When using tires of improper size • When the tire pressure for the 4 tires are different • When the replacement tire is worn or used (Especially studless tires having passed a second season). • When driving near high-rise buildings • When a roof carrier has been installed • When a long distance route is calculated while driving on an expressway In such cases, continued driving will automatically enable the system to conduct map matching or use updated GPS information to provide the current position (In such cases, up to several minutes may be required)

Correct route guidance may not occur due to search conditions or driving position.

The following occurrences are not malfunctions :	
<ul style="list-style-type: none"> • 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 may occur in some No u-turn intersections 	<ul style="list-style-type: none"> • Route guidance signaling entrance into a No-entry zone may occur (No-entry zone, road under construction, etc.) • Guidance may be given to a position that is not 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 away from the designated route. (e.g. if a turn is made at an intersection while the navigation provided guidance to go straight.)

These situations may occur after conducting route calculation.

The following occurrences are not malfunctions :	
<ul style="list-style-type: none"> • Guidance may be given to a position differing from the current position when turning at an intersection • When driving in high speeds, route recalculation may take a longer period of time • Route guidance signaling for a u-turn may occur in some No u-turn intersections 	<ul style="list-style-type: none"> • Route guidance signaling entrance into No-entry zone may occur. (No-entry 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 away from the designated route (e.g. If a turn is made at an intersection while the navigation provided guidance to go straight.)

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	Possible Cause
There are small red, blue, or green dots on the screen	<ul style="list-style-type: none"> • Because the LCD is manufactured with technology requiring high point density, a pixel or lighting deficiency 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 screen 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 muted?
When the power is turned on, the corners of the screen are dark	<ul style="list-style-type: none"> • The display appearing somewhat dark after prolonged periods of use is normal 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	<ul style="list-style-type: none"> • Are the positions of Fader or Balance sound controls adjusted to only one side?

Problem	Possible Cause
Sound does not work in AUX mode	<ul style="list-style-type: none"> • Are the audio connector jacks fully inserted into the AUX terminal?
The external device is not working	<ul style="list-style-type: none"> • Is the external device connected with a standard connector cable?
Upon turning power on, the most recent mode screen is not displayed	<p>Within modes that play files by reading external sources, such as discs, USB, iPod, or Bluetooth® streaming mode, the most recently played mode screen prior to turning off power may not properly load</p> <ul style="list-style-type: none"> • If there is no disc or the corresponding device is not connected, the mode operated prior to the most recent mode will operate • If the previous mode still cannot be properly played, the mode operated prior to that will operate



Appendix

Troubleshooting

Problem	Possible Cause	Countermeasure
The power does not turn on	The fuse is disconnected	<ul style="list-style-type: none"> • Replace with a suitable fuse • If the fuse is disconnected again, please contact your point of purchase or service center
	Device is not properly connected	<ul style="list-style-type: none"> • Check to see that the device has been properly connected
The system does not play	The disc has not been inserted or has been inserted upside down	<ul style="list-style-type: none"> • Insert the disc properly so that the sides are facing the correct direct
	The disc has been contaminated	<ul style="list-style-type: none"> • Wipe away dirt and other foreign substances from the disc
	The vehicle battery is low	<ul style="list-style-type: none"> • Charge the battery If the problem persists, contact your point of purchase or service center
	A disc not supported by the device has been inserted	<ul style="list-style-type: none"> • Insert a disc which is supported by the device

Problem	Possible Cause	Countermeasure
The image color/tone quality is low	<ul style="list-style-type: none"> • The brightness, saturation, hue, and contrast levels are not set properly 	<ul style="list-style-type: none"> • Properly adjust the brightness, saturation, hue, and contrast levels through Display Setup
Sound does not work	<ul style="list-style-type: none"> • The volume level is set to the lowest level • The connection is not proper • The device is currently fast-forwarding, rewinding, scanning, or playing in slow mode 	<ul style="list-style-type: none"> • Adjust the volume level • Check to see that the device has been properly connected • The sound will not work when the device is fast-forwarding, rewinding, scanning, or playing in slow mode
	The sound or image quality is low	<ul style="list-style-type: none"> • The disc is dirty or scratched
<ul style="list-style-type: none"> • Vibration is occurring from where the conversion switch has been installed • Image color/tone quality is low 		<ul style="list-style-type: none"> • The sound may be short-circuited and the image distorted if the device vibrates • The device will return to normal once vibrations stop

Problem	Possible Cause	Countermeasure
The USB does not work	<ul style="list-style-type: none"> • USB memory is damaged • USB memory has been contaminated • A separately purchased USB HUB is being used • A USB extension cable is being used • A USB which is not a Metal Cover Type USB Memory is being used • An HDD type, CF, SD Memory is being used • There are no music files which can be played 	<ul style="list-style-type: none"> • Please use after formatting the USB into FAT 12/16/32 format • Remove any foreign substances on the contact surface of the USB memory and multimedia terminal • Directly connect the USB memory with the multimedia terminal on the vehicle • Directly connect the USB memory with the multimedia terminal on the vehicle • Use standard USB Memory • Use standard USB Memory • Only MP3, WMA file formats are supported. Please use only the supported music file formats
The iPod is not recognized even though it has been connected	<ul style="list-style-type: none"> • There are no titles which can be played • The iPod firmware version has not been properly updated • The iPod device does not recognize downloads 	<ul style="list-style-type: none"> • Use iTunes to download and save MP3 files into the iPod • Use iTunes to update the firmware version and reconnect the iPod with the device • Reset the iPod and reconnect with the device

i Information

- While operating the device, if an abnormality occurs that cannot be corrected with the above described measures, press the **FM/AM** key and **MAP VOICE** key at the same time about 10 seconds to reset the system.



Appendix

FAQ

About Pairing Mobile Phones

Q I cannot pair my mobile phone. What is the cause?

A Check to see that the mobile phone supports Bluetooth® function. If your phone is a Bluetooth® phone, then check to see whether the Bluetooth® setting within your phone been is set to 'Hidden'. If the device is set to hidden, please un-hide the device (set to unhidden state).

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

A Pairing occurs through authenticating the head unit and mobile phone. Mobile phones paired to the head unit can be connected and disconnected until the paired mobile phone is deleted from the system. Bluetooth® Handsfree features, such as making/answering calls or managing contacts, are supported only in mobile phones connected with the head unit.

Q What is a Passkey?

A A passkey is the password used to authenticate the connection between the head unit and mobile phone. The passkey only needs to be entered once when pairing the mobile phone for the first time.


The initial passkey is 0000. The passkey can be changed

by pressing  key  Setup  Bluetooth

  .


About Making/Answering Phone Calls

Q How can I answer a call?

A When there is an incoming call, a notification pop-up will become displayed. To answer the incoming call, press the **Accept** button on the screen or the  key on the steering remote controller.

To reject the call, press the **Reject** button on the screen or press the  key on the steering remote controller.

Q What should I do if I am talking on the Handsfree but want to switch the call to the mobile phone?

A While on a call, press and hold (over 0.8 seconds) the  key on the steering remote controller or press the **Private** button at the bottom of the Phone screen to switch the call to your mobile phone.

About *Bluetooth*[®] Wireless Technology/Head Unit Use Environment

Q What is the range of my wireless connection?

A The wireless connection can be used within 15 yards.

Q How many mobile phones can be paired?

A It is possible to pair up to five mobile phones.

Q Why is call quality sometimes poor?

A Check the reception sensitivity of the mobile phone when call quality becomes worsened. The call quality may deteriorate when the signal strength is low. Call quality may also worsen if metal objects, such as drink cans, are placed near the mobile phone. Check to see if there are metal objects in the vicinity of the mobile phone. The call sound and quality may differ depending on the type of mobile phone.



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.

MS

Route Safety

Do not follow the route suggestions if doing so would result in an unsafe or illegal maneuver, if you would be placed in an unsafe situation, or if you would be directed into an area that you consider unsafe. The driver is ultimately responsible for the safe operation of the vehicle and therefore, must evaluate whether it is safe to follow the suggested directions.

Potential Map Inaccuracy

Maps used by this system may be inaccurate because of changes in roads, traffic controls or driving conditions. Always use good judgment and common sense when following the suggested routes.

Emergency Services

Do not rely on any navigation features included in the system to route you to emergency services. Ask local authorities or an emergency services operator for these locations. Not all emergency services such as police, fire stations, hospitals and clinics are 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.

FCC Warning

U.S.FEDERAL COMMUNICATIONS COMMISSION RADIO FREQUENCY INTERFERENCE STATEMENT INFORMATION TO THE USER

NOTE : This equipment has been tested and founded to comply with the limits for a
Class B digital device pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular Installation.

If this equipment dose cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encourage 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 of a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

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

This equipment complies with FCC radiation exposure 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

This device complies with Industry Canada licence-exempt RSS standard(s).

Operation 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et

(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Appendix Homologation

FCC Compliance Statement.

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

- 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.

Do Not



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

Be sure

The antenna(s) used for this device must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

IC Compliance Statement.

This device complies with Industry Canada licence-exempt RSS standard(s).
Operation 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.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisee aux deux conditions suivantes :

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioelectrique subi, meme si le brouillage est susceptible d'en compromettre le fonctionnement.