

1 General

- Warnings and Cautions
- Key Product Features
- Component Names and Functions
- Using the System for the First Time

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.
- When checking the current vehicle speed, first check the speedometer rather than the speed displayed within the Navigation.
- 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. Park the vehicle before operating the device.
- Do not disassemble, assemble, or modify the AVN system. Such acts could result in accidents, fire, or electric shock.
- Using phone features while driving may distract drivers from paying attention to traffic conditions and result in traffic accidents. Use phone features only after the vehicle has been parked.
- 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.
- The video screen will not operate when the vehicle is in motion. For your safety, first park the vehicle to watch or view the screen.
- Some Non-video features may also not operate when the vehicle is in motion. These features will operate only when the vehicle has been parked.

Warnings and Cautions

Safety Cautions

- 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, some features may not work for your safety when the vehicle is in motion. These features will operate only when the vehicle has been parked.
- 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 Audio Video Navigation system for long periods of time with the ignition turned off as such operations may lead to battery discharge.
- Upon using the Audio Video 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 5 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.

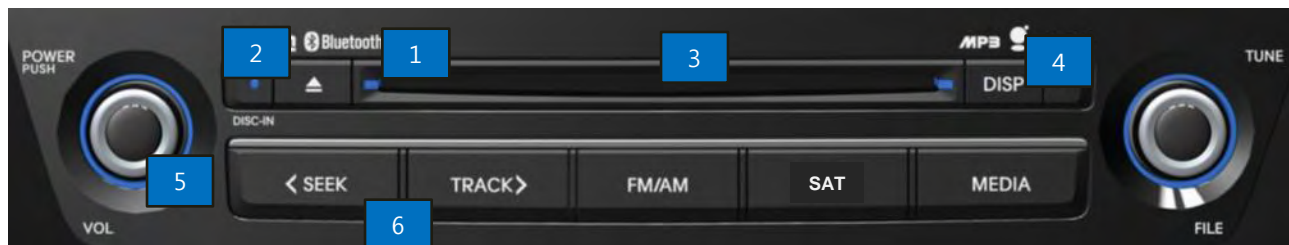
Key Product Features

This device is an all-in-one Driver Information System equipped with a multifunctional DVD player, Navigation, Bluetooth Handsfree, Blue Link and various other features. The WIDE VGA LCD provides a high quality resolution to both driver and passengers while the powerful and rich sound system adds to driving enjoyment.

Display	Wide TFT-LCD Display	Provides high quality video through a Wide TFT-LCD Display using an LED Back Light
AV	Support for various Media Formats	<ul style="list-style-type: none">• Support for various media formats, including HD Radio, XM Radio, Audio/MP3/Video CD, DVD, AUX• Supports USB, iPod, and Bluetooth Audio Streaming modes
	Jukebox	Supports copy and play of music, video, image stored within USB into Jukebox (internal memory) mode (Max. 30GB)
	Gracenote	When playing music, automatically receives detailed music information, such as song name, artist, album, and genre and displays on the screen (Audio CD, USB, Jukebox modes supported)
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
	Traffic Information	<ul style="list-style-type: none">• Displays traffic congestion information on the map• Provides route guidance optimized according to traffic conditions
	ZAGAT Information	<ul style="list-style-type: none">• Provides restaurant information by synchronizing with ZAGAT data within the Search by POI feature
Etc	Bluetooth Handsfree	Convenient use of Bluetooth Handsfree by using buttons within the steering remote controller
	Front Central Controller	8-directional jog-dial controllers for convenient control and access to various system features
	XM Data	Provides Weather, Traffic, Sports, Stock related information
	Blue Link	Provides Downloaded POI, ECO Driving, Gas Station, Location sharing and various other features

Component Names and Functions

Head Unit

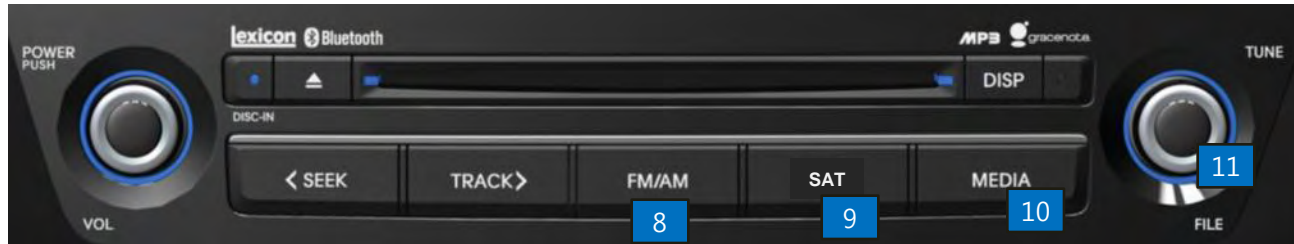


No.	Name	Details
1	DISC-IN LED	Displays the DISC insert state
2	DISC OUT	DISC eject key
3	DISC Insert Slot	DISC insert/eject slot
4	DISP	Turns off the screen or displays the default image
5	Power/Volume	<ul style="list-style-type: none"> Used to turn device power ON/OFF and control volume When power 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 AV off Turn left/right to adjust volume

No.	Name	Details
6	SEEK/TRACK	<p>When the [^SEEK] [TRACK ∨] keys are pressed shortly (under 0.8 seconds)</p> <ul style="list-style-type: none"> In FM/AM mode, searches broadcast frequencies In XM Radio mode, changes to the previous/next channel In DVDP CD/MP3/DVD and Jukebox/USB/iPod modes, changes the track, file or chapter <p>When the [^SEEK] [TRACK ∨] keys are pressed and held (over 0.8 seconds)</p> <ul style="list-style-type: none"> In FM/AM mode, automatically searches broadcast frequencies. Once released, searches and begins playing the next broadcast frequency In DVDP CD/MP3/DVD and Jukebox/USB/iPod modes, rewinds or fast forwards the track or file

Component Names and Functions

Head Unit



No.	Name	Details
8	FM/AM	<ul style="list-style-type: none">• Operates FM/AM mode• Each time the key is pressed, mode is changed in order of FM1→FM2→AM
9	SAT	<ul style="list-style-type: none">• Operates XM Radio mode• Each time the key is pressed, mode is changed in order of XM1→XM2→XM3
10	MEDIA	<ul style="list-style-type: none">• Operates DISC → Jukebox → USB/iPod → AUX → Bluetooth Audio modes• If the media is not connected or a disc is not inserted, corresponding modes will be disabled
11	TUNE/FILE knob	<ul style="list-style-type: none">• In FM/AM mode, turn to change broadcast frequencies• In DISC, Jukebox, USB, and iPod modes, turn to search tracks/channels/files. When the desired channel or file name is displayed, press to operate the corresponding track/channel/file

Component Names and Functions

Front Central Controller



No.	Name	Details
1	Left Soft Key	Key synchronized with the button shown on the bottom left side of the screen
2	MENU	Displays the MENU popup screen
3	Right Soft Key	Key synchronized with the button shown on the bottom right side of the screen
4	HOME	Displays the HOME screen
5	PHONE	Displays the Bluetooth [®] Handsfree screen

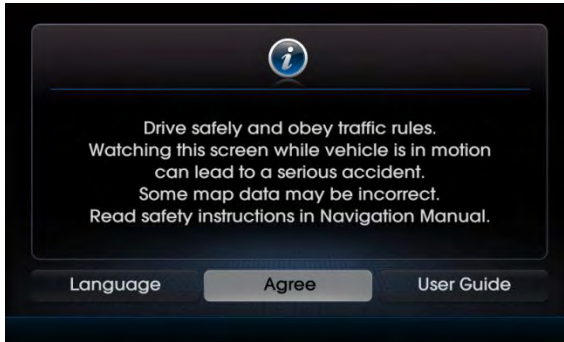
No.	Name	Details
6	Back	Displays the previous screen
7	Controller	All desired functions can be operated by turning, 8-directional pushing and pressing the controller.
8	MAP/VOICE	Displays the map for the current position
9	DEST	Displays the Destination setup menu
10	Blue Link	Displays the Blue Link screen

Using the System for the First Time

Turning the System On/Off

Turning the System On

Press the engine start button. If the brakes are not pressed, then the ACC and system will turn on. If the brakes are pressed, then the IGN and system will turn on and the ignition will start. In both instances, the following safety warning will be displayed.



Once the system is turned on, then the booting process will start. 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. As these matters are related to safety, closely read and comply with the safety warnings.

Turning the System Off

Press the engine start button again or press and hold the Ⓞ power key on the head unit to turn the system off.

Information

- If the system is turned off while the Handsfree is being used, then the call will automatically switch back to the mobile phone.

Caution

- 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 levels before turning off the device.

Using the System for the First Time

Resetting the System

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



While pressing and holding the [1] key, press the [2] key twice and then press the [3] key twice.

Information

- Upon resetting the system, saved data and settings information (radio frequencies, volume and display settings, etc.) 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.



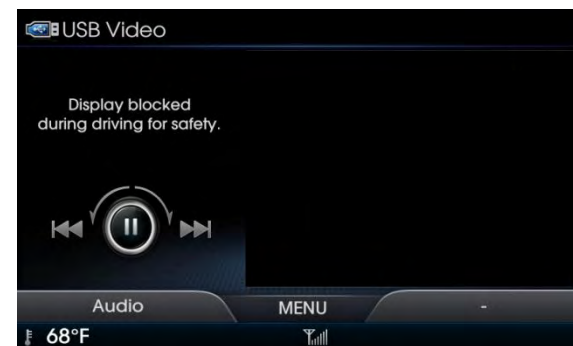
This message will automatically disappear once the engine is turned on.

Information

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

Auto Video Lock

When using the DVD, VCD, or another video mode, the display will be turned off for safety. A related message screen is also displayed.



<While In USB Video Mode>

Even if the screen is turned off, the media sound will continue to be played. The screen will automatically turn back on once the gear is set to P or the parking brake is turned On.

Using the System for the First Time




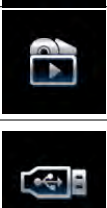
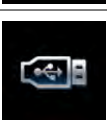
HOME Screen

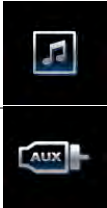






Press the [HOME] key to display the System Home screen.



Turn the controller left/right to select the desired mode.

While in the Home screen, press the [LFT] key to enter Sound Settings and the [RHT] key to enter Display Settings.

Icon	Description
	FM
	AM
	XM
	DISC
	Jukebox
	USB

Icon	Description
	iPod
	AUX
	Bluetooth Audio
	Navigation
	PHONE
	INFO/Settings
	Blue Link

Using the System for the First Time

Status Icons

Various system status icons, including Navigation, AV, and Bluetooth, are displayed at the bottom of the screen.



No.	Icon	Description
1		Displays the outside temperature.
2		Displayed when the Navigation voice guidance has been set to mute.
3		Displayed when AV mode has been set to mute.
4		Displayed when a Bluetooth phone has been connected.
		Displayed upon downloading contacts from the Bluetooth phone.
5		Displayed when the user is on a Bluetooth call.
		Displayed when the user is on a Blue Link call.
6		Displayed when the microphone has been turned off during a call.
		Displays the Blue Link phone sensitivity.
7		Displayed when data within the disc, Jukebox, or USB is currently being read.
8		Displayed when a file is being copied into the Jukebox.

Using the System for the First Time

Adjusting the Volume



Adjusting the Radio/Media Volume

While playing the radio/media ▶ Turn the knob left/right to adjust the volume



Adjusting the Voice Guidance Volume

During voice guidance ▶ Turn the knob left/right to adjust the guidance volume



Adjusting the Call Volume

While on a call ▶ Turn the knob left/right to adjust the call volume



Using the Soft Keys

The screen soft keys are set with features most frequently used within the current screen.



Using the System for the First Time

No.	Name	Details
1	[LFT]	If the left soft key is pressed, the function displayed on the bottom left side of the current screen is operated. For example, pressing the left soft key within the Radio Screen will operate the [Autostore] feature.
2	[RHT]	If the right soft key is pressed, the function displayed on the bottom right side of the current screen is operated. For example, pressing the left soft key within the Radio Screen will display the [Preset List] screen.

Inputting Text

The Text Input screen supports two inputting methods.

Inputting Text with the Controller

1. Turn the controller left/right to select the desired character.
2. Press the controller to input the selected text.
3. Pressing the left soft key will delete one character at a time.
4. Pressing the right soft key will complete text inputting.



Caution

- Inputting text while driving may lead to negligent driving practices and lead to accidents. For safety, use this feature after the vehicle has been parked.

Inputting Text with Touch Buttons

1. Within the keyboard screen, the (1) area can be operated by touching the screen.
2. Press the desired characters to input on the screen.



Information

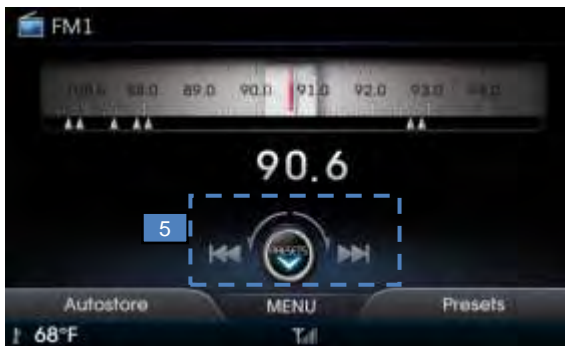
- Inputting text with touch buttons is supported only within the keyboard screen.
- All screens with the exception of the keyboard screen do not support the touch input feature.

2 AV

FM/AM
XM
DISC
DISC CD
DISC MP3
DVD
VCD
Jukebox
USB
iPod
AUX
Bluetooth® Audio
Auto Playlist



Basic Mode Screen



Name	Description
1. Mode	Displays currently operating mode
2. Frequency Range and Presets	Displays the frequency range and saved presets
3. Frequency	Currently playing frequency
4. Broadcast Station Name	Name of current broadcast station
5. Control Panel	(Not displayed in HD Radio Broadcast) Converts to frequency search function, and preset mode <ul style="list-style-type: none"> When turned left/right: moves to previous/next frequency When pushed left/right: moves to previous/next station When pushed up/down: converts to TUNE or PRESET mode
6. Radio Info	Displays HD Radio or Radio Text information
7. Auto Store	Saves frequencies with superior reception to Preset buttons
8. MENU	Displays the pop up menu
9. Presets	Moves to saved preset list
10. FM1/FM2	Converts to FM1 or FM2 mode
11. Scan	In Tune mode, plays frequencies with superior reception for 5 seconds each In Preset mode, plays broadcasts saved to presets for 5 seconds each
12. Radio Text	Turns radio text info display on/off
13. HD Radio	Turns HD Radio reception status on/off
14. View CH. Info	Displays information of current station
15. Save Station	Saves current station
16. Tagging	Tagging a song playing on HD Radio
17. Sound Settings	Displays the sound settings screen
18. Display Settings	Displays the display settings screen

FM/AM

Starting Mode

Press the [HOME] key ► Select the FM or AM button.



Pressing the [FM/AM] key on the head unit to change the mode in order of FM1 → FM2 → AM.

Information

- Pressing the [FM/AM] key while the power is off will automatically turn the device on and start radio mode.

Switching to Tune Mode

In the radio screen ► Push the controller up to enter Tune mode.



Within the tune mode, it is possible to manually search for frequencies by turning the controller left/right.

Switching to Preset Mode

In the radio screen ► Push the controller down to enter Preset mode.



In Preset mode, turn the controller left/right to search broadcasts saved as presets.

FM/AM

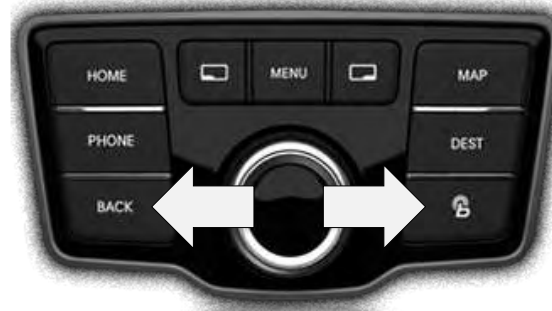
Searching Broadcasts Manually

In the Tune mode ► Turn the controller left/right to select the desired frequency.



Searching Broadcasts Automatically

In the radio screen ► Push the controller left/right to search for frequencies



The frequency is continuously changed while the controller is pushed. Once the controller is released, the following broadcast frequency and station is automatically searched.



In addition, operations can also be made from the head unit.

Press the [<SEEK],[TRACK>] keys to automatically search for frequencies.

- Shortly press the key (under 0.8 seconds): Plays previous/next frequency
- Press and hold the key (under 0.8 seconds): While pressed, changes the frequency. Upon release, receives the previous/next broadcast.

Or turn the [○] TUNE knob left/right on the head unit to select the desired frequency

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



Saving Radio Frequencies

Saving Automatically (Autostore)

In the radio screen ► Press the [LFT] Autostore button



- A total of 36 frequencies with 12 preset frequencies each for FM1/FM2/AM modes can be saved.

Information

While Autostore is operating, pressing the controller will cancel the function and return to the previous frequency. In addition, the preset list is also maintained.

Saving Stations Manually

Select the desired frequency ► Press and hold the controller ► Select position to save station



Information

Stations can also be saved manually by pressing the [MENU] key ► Selecting [Save Station].

Presets

In the radio screen ► Press the [RHT] key



Turn the controller left/right to select the desired station. Once found, press the controller to start listening.

Using the Menu Key

FM1/FM2

In the radio screen ► Press the [MENU] key ► Select [FM1] or [FM2]



The mode can be changed between FM1 and FM2.

Scanning Radio Frequencies

Press the [MENU] key ► Select [Scan]

- Tune mode: Starting from the current frequency, frequencies with superior reception are scanned for 5 seconds .
- Preset mode: Previews saved presets for 5 seconds each.

Information

While Scan is operating, pressing the controller will cancel the function and return to the previous frequency.

Radio text On/Off

In the radio screen ► Press the [MENU] key ► Select [Radio Text]

If the current broadcast includes Radio Text information, then the text information is displayed on the screen.

HD Radio On/Off

In the radio screen ► Press the [MENU] key ► Select [HD Radio]



You can select HD Radio from the menu and listen to HD Radio Broadcasts. HD Radio may differ depending on the system.

Changing HD Radio stations

Turn the Controller ([○] TUNE knob) left/right to select the desired HD Radio station. If HD Radio stations do not exist, frequencies will be searched manually.

Information

- HD Radio Technology is a digital radio technology used by AM and FM radio stations to transmit audio and data via a digital signal in conjunction with their analog signals.
- While listening to the radio, the HD Radio icon will become displayed if receiving an HD Radio broadcast.

Viewing channel information

In the radio screen ► Press the [MENU] key
► Select [View Ch. Info] to view information on the current station.



Information

This feature is supported only when HD Radio is active.

Save Station

In the radio screen ► Press the [MENU] key
► Select [Save Station]

The current frequency can be saved.

Tagging

In the radio screen ► Press the [MENU] key
► Select [Tagging]

Tagging a song playing on HD Radio
Maximum 50 song can be tagged.
When the iPod is connected to system,
Automatically tagging information are
downloaded to the iPod.

Information

- Tagging information can be found on iTunes
- Tagging may support depending on the iPod device.

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

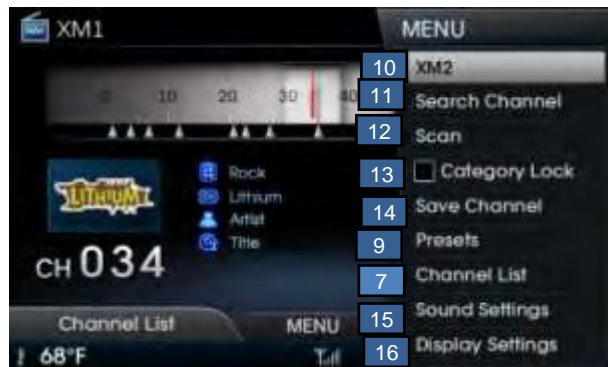
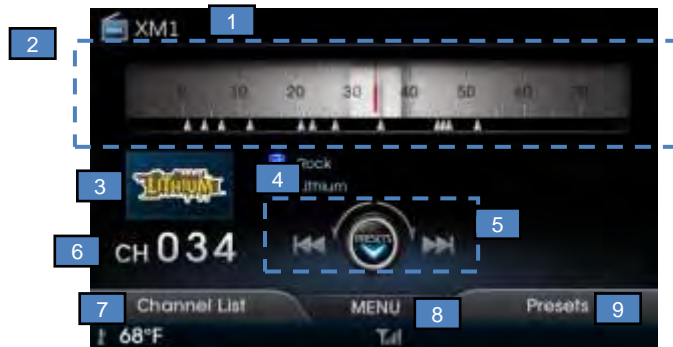
Adjacent to traditional main stations are extra local FM channels. These HD2/HD3 Channels provide new, original music as well as deep cuts into traditional genre.

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.

Part 2. AV (XM)

Basic Mode Screen



Name	Description
1. Mode	Displays currently operating mode
2. Channel Range and Presets	Displays the frequency range and saved presets
3. XM Image	XM channel image
4. XM Info	Shows category, channel, artist and title information
5. Control Panel	<ul style="list-style-type: none"> Converts to Channel search function, and preset mode When turned left/right: moves to previous/next channel When pushed left/right: moves to previous/next Channel When pushed up/down: converts to TUNE or PRESET mode
6. Channel Number	Current channel number
7. Channel list	Channel list screen by category
8. MENU	Displays the pop up menu
9. Preset	Moves to saved preset list
10. XM1/XM2/XM3	Converts to XM1, XM2 or XM2 mode
11. Search Channel	Searches XM channels..
12. Scan	<ul style="list-style-type: none"> Plays channel with superior reception for 5 seconds each. Within preset mode, scans previously saved presets.
13. Category Lock	When searching for channels with the category lock set, only the channels within the fixed category can be searched.
14. Save Channel	Saves current frequency
15. Sound Settings	Displays the sound settings screen
16. Screen Settings	Displays the display settings screen

Part 2. AV (XM)

Starting Mode

Press the [HOME] key ► Select the XM button.

Press the [XM] key on the head unit to change the mode in order of XM1 → XM2 → XM3

Information

- Pressing the [XM] key while the power is off will automatically turn the device on and start radio mode.

Switching to Tune Mode

In the XM screen ► Push the controller up to enter Tune mode.



Within the tune mode, it is possible to manually search for channel by turning the controller left/right.

Switching to Preset Mode

In the XM screen ► Push the controller down to enter Preset mode.



In Preset mode, turn the controller left/right to search channel saved as presets.

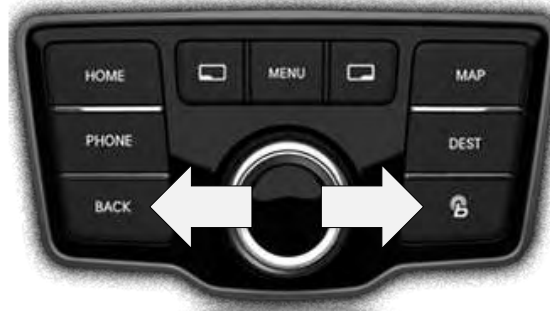
Part 2. AV (XM)

Searching Channels

In the Tune mode ► Turn the controller left/right to select the desired channel.



In the XM screen ► Push the controller left/right to change the channel



The channel is continuously changed while the controller is pushed.



In addition, operations can also be made from the head unit.

Press the [<SEEK], [TRACK>] keys to change the channel.

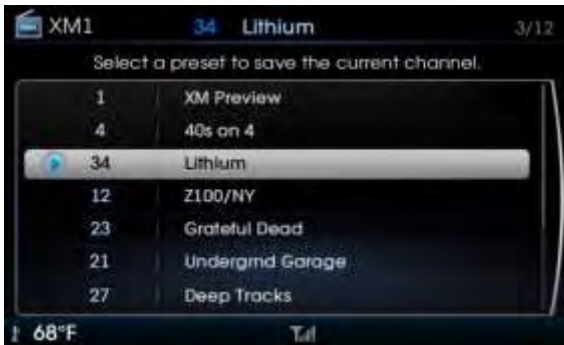
- Shortly press the key (under 0.8 seconds): Plays previous/next channel.
- Press and hold the key (under 0.8 seconds): The channel is continuously changed while the controller is pushed.



Or turn the © TUNE knob left/right on the head unit to select the desired channel.

Saving channel

Select the desired channel ► Press and hold the controller ► Select position to save channel



Information

channel can also be saved by pressing the [MENU] key ► Selecting [Save channel].

Channel List

In the XM screen ► Press the [LFT] Channel List button



Once you select a category shown on the left column, lists of channels included within the selected category are displayed on the right column.

Select the desired channel from the right column.

Information

Channel list can also be selected by pressing the [MENU] key ► Selecting [Channel list].

Presets

In the XM screen ► Press the [RHT] Presets button.



Turn the controller left/right to select the desired channel. Once found, press the controller to start listening.

Using the Menu Key

XM1/XM2/XM3

In the XM screen ► Press the [MENU] key ► Select [XM1] or [XM2] or [XM3]



The mode can be changed to XM1, XM2 and XM3

Searching a Channel

In the XM screen ► Press the [MENU] key ► Select [Search Channel]



- Turn the controller to enter the desired channel number.
- Press the [RHT] or the [Back] key to return to the main screen.

Scan

Press the [MENU] key ► Select [Scan]



- Tune Mode : Starting from the current channel, channels with superior reception are scanned for 5 seconds .
- Preset mode : Previews saved presets for 5 seconds each.

Information

While Scan is operating, pressing the controller will cancel the function and return to the previous frequency.

Part 2. AV (XM)

Category Lock

Press the [MENU] key ► Select [Category Lock]



Once Category Lock is turned on, the Category Lock icon is displayed on the main screen. Upon operating seek with the Lock on, only channels within the category are searched.

Information

- Performing the below operations in Lock ON state will search only the channels within the current category.
 - Operating Scan in Tune mode
 - Changing channels by turning the controller in Tune mode
 - Changing channels by turning the TUNE knob in Tune mode
- Searching channels through Seek Up/Down
- The below operations are not affected by the Category Lock feature.
 - Selecting saved Preset channels
 - Changing channels by turning the controller in Preset mode
 - Changing channels from the Channel List
 - Changing channels through voice recognition

About Discs

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 and video 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 to 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: -10 °C ~ 65 °C)
- 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 could be the cause of product malfunction. Remove the disc and wait until the moisture dries.
- Skipping may occur to the audio and video when driving on bumpy roads for prolonged periods of time or upon severe shock to the vehicle. In case of severe shock, video and audio may not properly play.
- Do not attach stickers or labels on to discs. Stickers or labels could cause damage to the system.
- Do not insert more than one disc at once. Such acts could lead to product damage or malfunctions.
- Do not forcefully eject or pull on discs when a disc is being loaded into the disc player. Such acts could lead to product damage or malfunctions.
- Non-genuine discs may result in disc recognition failure or product malfunction

Supported Disc Format

Disc Type

Disc Type	Disc Format	Device Support
CD	5inch (12cm) CD CD-R CD-RW Multisession-CD	O O O (Read Only) O (Read Only) O (Read Only)
DVD	DVD DVD±R DVD±RW DVD-RAM	O O (Read Only) O (Read Only) X
SACD	SACD (Single, SACD layer) SACD (Hybrid)	X O (Only CD layer)

Disc Formats

Disc Type	Disc Format	Device Support
CD	CD-DA	O
	MP3	O
	WMA	O
	MPEG4 AAC	X
	VIDEO-CD	O
	DTS-CD	O
	CD-ROM	O
	CD-G	O
	CD-EXTRA	O
	CD-TEXT	O
DVD	MPEG4(VIDEO)	X
	DivX® (VIDEO)	X
	DVD-VIDEO	O
	DVD-AUDIO	O
	DVD-MP3	X
	DVD-ROM	O
	DVD-VR	O
	CPRM	O

Before playing a MP3 Disc

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

- Maximum number of files per disc: 512 files

- Supported ID3 tags : ID3v1 0, ID3v1 1, ID3v2 2, ID3v2 3, ID3v2 4

- Supported MP3 Media: CD-ROM

- Supported media formats: ISO9660 LEVEL1 and LEVEL2

- 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.

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 Korean or 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.

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)

Precautions upon burning MP3 files

- The use of ISO 9660 LEVEL 2 JOLIET format is recommended.

- The use of CDs exceeding 700MB may result in faulty disc recognition or errors upon play.

- This device does not support multisession discs.

- This device supports only 8 layer folders.

Recommended bit rates and frequency

- Sampling frequency: 96 ~ 192 Kbps fixed bit rate /44.1kHz

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

DISC

CD-R/RW Compatibility

- This device supports CD-R, CD-RW, and MP3 discs burned in Audio CD, Video 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.

Disc/Content Format Compatibility

By Format according to Disc Type

Disc Type	Disc Format	Device Support
DVD	LPCM	O
	Dolby Digital	O
	DTS	O
	MPEG	O
CD	LPCM	O
MP3	MPEG1, Layer3	O
	MPEG2, Layer3	O
	MPEG2.5	O
WMA	Ver9	O

Ordinary Disc Compatibility

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



- This device supports the IEO Super VCD standard. Super VCD supports outstanding quality and supports 2 sound tracks upon recording.
- 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.

Dual-Layer DVD Video Discs

- When playing a dual-layer disc, video/sound lags may occur for up to several seconds. Such phenomena are not unusual when using a dual-layer disc

- and do not signal a product malfunction.
- CD-R or CD-RW DISC without quality guarantees or discs over 650mb may not be properly recognized by the device.
- Inserting an abnormal disc may result in faulty operation/recognition.

DVD Region Code

The DVD Player and DVD discs are assigned region codes. The region code of this device is <1>.

Discs that have region codes besides <1> or <ALL> cannot be played.

PBC (Play-Back Control)-Compatible Video CD

This device supports PBC-compatible Video CDs.

PC-created Disc Compatibility

- When burning a disc on the 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.

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), 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), 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".

About DVD Titles







Understanding of the DVD Titles

• Contents of DVD Titles

The video and sound recorded on a DVD are divided into titles and can be recognized by their title numbers. Each title is sub-divided into smaller units called chapters and each chapter can be recognized by the chapter number. The title number and chapter number of the currently playing DVD title is displayed on the upper side of the DVD operation menu screen.

• DVD Region Code

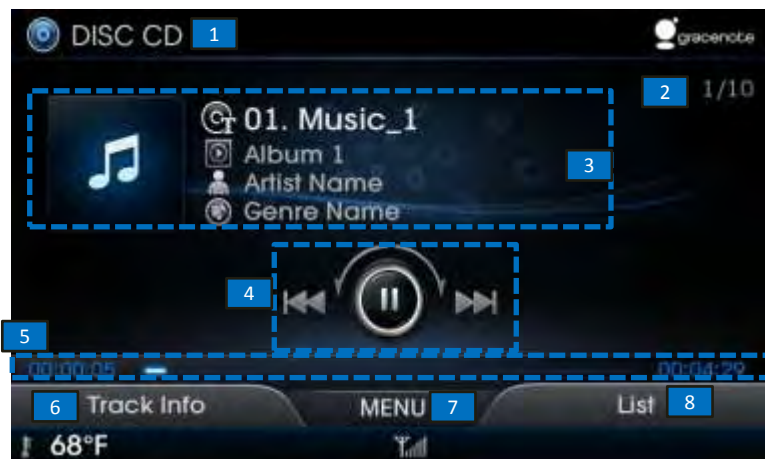
The DVD player and DVD discs are set with region codes and can be played in accordance to the sales region. If a disc besides "Region Code 1" or "All region disc" is inserted, then a "Region Code Error" screen will be displayed and the disc will not normally play.

Icon	Description
	Shows the supported region codes.
	Up to 32 subtitles can be recorded within a DVD. The number within the icon indicates the number of subtitle languages recorded within the DVD.
	Up to 8 voice languages can be recorded within a DVD. The number within the icon indicates the number of voices languages recorded within the DVD.
	DVD allows viewing of filmed footage from up to 9 angles (multi-angle). The number within the icon indicates the number of screen angles.
	This icon the screen ratio and display method. "16:9" or "4:3" indicates the screen proportion (ratio) while "LB", "PS" and "WIDE" indicates the screen display method and stands for "Letter Box", "Pan-Scan" and "Wide Screen", respectively.
	NTSC: This is the color method as used in Korea, Japan and the United States.

Color TV Support

This device supports NTSC color encoding methods. Other methods besides NTSC may not be supported.

Basic Mode Screen



No	Name	description
1	Mode	Displays currently operating mode
2	Track Index	Shows the current track/total tracks
3	Play Track Info	Shows track number(title)/album/artist/genre information
4	Control Panel	Enables use of play/pause/select/search features <ul style="list-style-type: none"> • When turned left/right: Moves to previous/next track • When pushed left/right: Plays previous/next song • When pressed: Plays or pauses
5	Play Time	Displays the current play time and total play time
6	Track Info	Shows track information
7	MENU	Displays the pop up menu
8	List	Moves to the track list screen
9	Shuffle	Turns Shuffle feature on/off
10	Repeat	Turns Repeat feature on/off
11	Scan	Scans the beginning parts of disc tracks (approx 10 seconds per track)
12	Auto Playlist	Moves to list screen showing current song (It is supported only for CD that support Gracenote Auto Playlist mode for more information)
13	Sound Settings	Displays the sound settings screen
14	Display Settings	Displays the display settings screen

DISC CD

Starting Mode

Press the [HOME] Key ► Select the DISC button.



DISC mode will automatically start once a CD is inserted.

Playing a CD

Press the controller to play or pause the track.

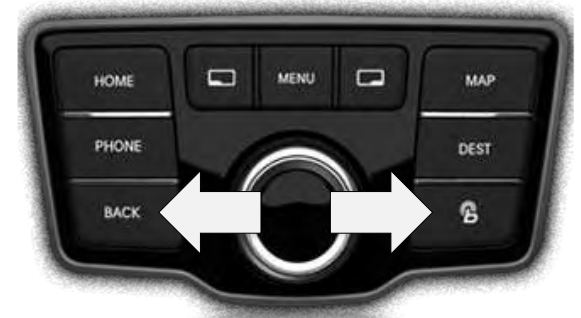


While Gracenote checks CD information, the message “Indexing.” will blink at the top right side.

Once Indexing is complete, song information is displayed on the screen for songs supported by Gracenote.

Selecting a Track

While playing ► Shortly push the controller left/right (under 0.8 seconds) or shortly press the [<SEEK], [TRACK>] keys to select the previous/next track.



DISC CD

Fast-forwarding or Rewinding CD Tracks

While playing ► Push and hold the controller left/right (under 0.8 seconds) or press and hold the [<SEEK],[TRACK>] keys to rewind/fast-forward the track.



Searching CD Tracks

While playing ► Turn the controller (○ TUNE knob) left/right to search for tracks



During search, the track name is displayed. Press the controller (○ TUNE knob) to play the selected track.

Track Info/Play Infor

Press the [LFT] Play Info key to view the track information.



To return to the previous screen, select the [LFT] Play Info button.

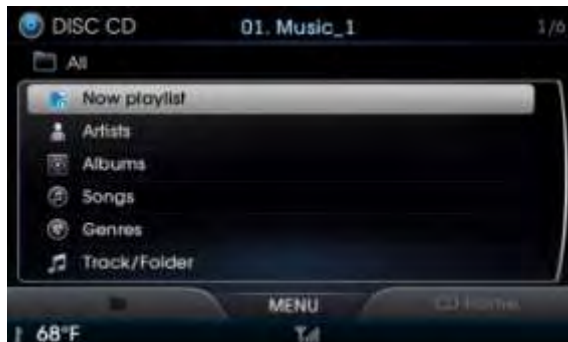
DISC CD

CD List

Press the [RHT] List button to select from the list.



Select the desired track by turning the controller. Once the desired track has been found, press the controller to play the track.



The [LFT] Category up and [RHT] CD Home button will be enabled when playing a CD that supports Gracenote and songs can be selected through Category Searches.

Using the Menu Key

Press the [Menu] button to set the Shuffle, Repeat, Scan, Auto Playlist, Sound Settings and Display Settings.



Shuffle

Press the [MENU] key ► Select [Shuffle]
► Select [Shuffle All]



Songs within the current playlist are played in random order. Select the [Off] button to turn the shuffle option off.

DISC CD

Repeat

Press the [MENU] key ► Select [Repeat]
► Select [Repeat]



The current track is repeated. Select the [Off] button to turn off repeat.

Scan

Press the [MENU] key ► Select [Scan]
► Select [Scan All]



The beginning (approx 10 seconds) of all tracks within the CD are scanned. Select the [Off] button or press the controller to turn off scan.

DISC MP3

Basic Mode Screen



No	Name	Description
1	Mode	Displays currently operating mode
2	File index	Shows the current MP3 file/total number
3	Play File Info	Shows file number/album/artist/genre info
4	Control Panel	Enables use of play/pause/select/search features <ul style="list-style-type: none"> • When turned left/right: Moves to previous/next track • When pushed left/right: Plays previous/next song • When pressed: Plays or pauses
5	Play Time	Displays the current play time
6	File Info.	Shows file information
7	MENU	Displays the pop up menu
8	List	Moves to MP3 Disc list screen
9	Shuffle	Turns Shuffle feature on/off
10	Repeat	Turns Repeat feature on/off
11	Scan	Scans the beginning parts of disc files (approx 10 seconds per track)
12	Sound Settings	Displays to the sound settings screen
13	Display Settings	Displays to the display settings screen

DISC MP3

Starting Mode

Press the [HOME] Key ► Select DISC button.



DISC MP3 mode will automatically start once a MP3 disc is inserted.

Information

- 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.

Playing DISC MP3

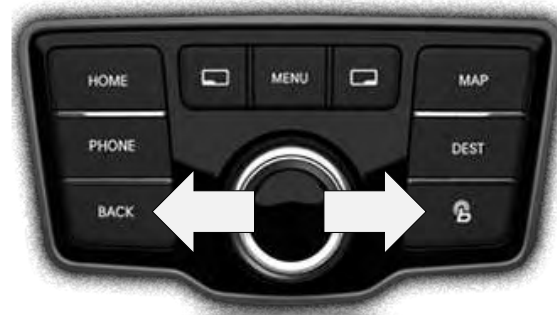
Press the controller to play or pause the DISC MP3.



DISC MP3 do not display the play graph and total time information.

Selecting DISC MP3 files

While playing ► Shortly push the controller left/right (under 0.8 seconds) or shortly press the [<SEEK], [TRACK>] keys to select the previous/next file.



DISC MP3

Fast-forwarding or Rewinding DISC MP3 Files

While playing ► Push and hold the controller left/right (over 0.8 seconds) or press and hold the [<SEEK], [TRACK>] keys to rewind/fast-forward the file.



Searching DISC MP3

While playing ► Turn the controller (○ TUNE knob) left/right to search for files.



During search, the file name is displayed. Press the controller (○ TUNE knob) to play the selected file.

File Info/Play Info

Press the [LFT] Play File button to view the file information.

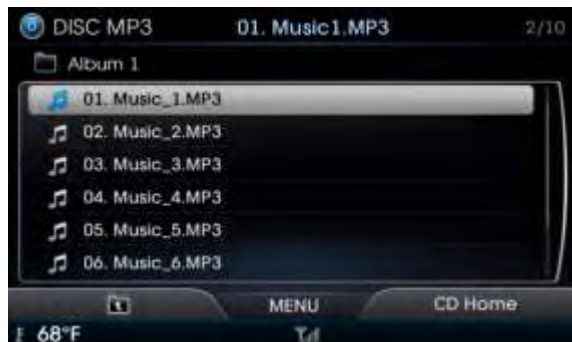


To return to the previous screen, select the [LFT] Play Info button.

DISC MP3

MP3 List

Press the [RHT] List button to select the list and check the playlist.



Turn the controller left/right to select and play the desired file. Once the desired file has been found, press the controller to play the file.

Pressing the [MENU] key and the |Now Playing| button within the list screen will move the focus to the currently playing file.

Using the Menu Key

Press the [MENU] key to use the Shuffle, Repeat, Scan, Sound Settings and Display Settings.



Shuffle

Press the [MENU] key ► Select [Shuffle]
► Select [Shuffle Folder] or [Shuffle All]



All songs or songs within the current folder can be played in random order.

No	Name	Description
1	Shuffle Folder	Plays current folder in random order
2	Shuffle All	Plays all files in random order
3	Off	Turn the Shuffle feature off.

DISC MP3

Repeat

Press the [MENU] key ► Select [Repeat]
► Select [Repeat] or [Repeat Folder]

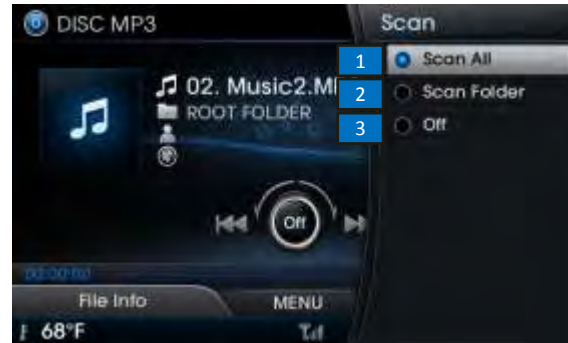


The current song or the all files within the folder can be repeated.

No	Name	Description
1	Repeat	Repeat current song
2	Repeat Folder	Repeat current folder
3	Off	Turn the Repeat feature off.

Scan

Press the [MENU] key ► Select [Scan]
► Select [Scan All] or [Scan Folder]



The beginning part (approximately first 10 seconds) of all files within the current folder or the entire DISC MP3 are scanned.

No	Name	Description
1	Scan All	Scans the beginning parts (approx 10 seconds) of all files
2	Folder Scan	Scans the beginning parts (approx 10 seconds) of all files within the current folder
3	Off	Turn the Scan feature off.

Basic Mode Screen



No	Name	description
1	Mode	Displays currently operating mode
2	Index	Shows the current DVD title/chapter number
3	Code Info	Shows information on voice and subtitle codes
4	Control Panel	Enables use of play/pause/search features <ul style="list-style-type: none"> • When turned left/right: Searches previous/next chapter • When pushed left/right: Plays previous/next chapter • When pressed: Plays or pauses
5	Play Time	Shows the current play time
6	Full screen	Converts DVD into full screen
7	MENU	Displays the pop up menus
8	List	Displays the DVD list screen
9	Title Menu	Moves to the Title menu screen
10	DVD Menu	Moves to the DVD menu screen
11	Subtitle Language	Set Subtitle Language
12	Voice Language	Set Voice Language
13	Sound Settings	Displays to the sound settings screen
14	Display Settings	Displays to the display settings screen
15	DVD Default Language	Displays to the DVD language setting screen

DVD

Starting Mode

Press the [HOME] Key ► Select the DISC button.



DVD mode will automatically start once a DVD disc is inserted.

Playing a DVD

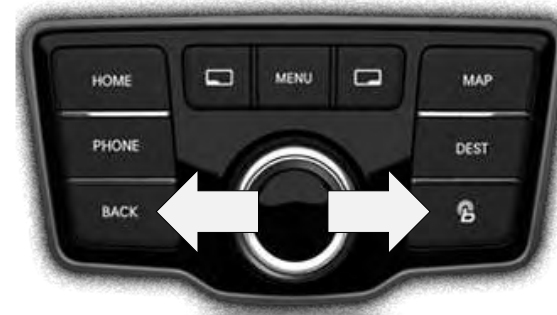
Press the controller to play or pause the DVD.



DVD do not display the play graph and total time information.

Selecting a Chapter

While playing ► Shortly push the controller left/right (under 0.8 seconds) or shortly press the [<SEEK], [TRACK>] keys to select the previous/next chapter.



Fast-forwarding or Rewinding Chapter

While playing ► Push and hold the controller left/right (over 0.8 seconds) or press and hold the [<SEEK], [TRACK>] key to rewind/fast-forward the current DVD.



Searching Chapter

While playing ► Turn the controller (○ TUNE knob) left/right to search for chapters.



During search, the file name is displayed. Press the controller (○ TUNE knob) to play the selected chapter.

Viewing in Full Screen

Press the [LFT] Full Screen to view the DVD in full screen.



Information

- If there are no operations for 10 seconds, the screen menu will automatically disappear.

Searching Titles/Chapters

Press the [RHT] List button to search DVD titles and chapters.



• Searching Titles

Press the [LFT] Previous Title and the [RHT] Next Title button to change to the previous or next title.

• Searching Chapters

Turn the controller left/right or shortly press the [<SEEK], [TRACK>] keys (under 0.8 seconds) to select the previous/next chapter.

Information

- The [1] displays the number of currently playing title and the total number of titles within the DVD disc.
- The [2] displays the number of currently playing chapter and the total number of chapters within the current title.

Using the Menu Key

Press the [MENU] key to set the Title Menu, DVD Menu, Subtitle Language, Voice Language, Sound Settings, Display Settings and DVD Default Language.



Information

- The Title Menu and DVD Menu options can only be used within DVDs that support these features. For DVD Menus, different DVD titles may have different menu organizations.

Title/DVD Menu

Press the [MENU] key ► Select [Title Menu] or [DVD Menu] button



Push the controller up/down/left/right directions to select the desired menu and press the [OK] button.

Subtitle Language

Press the [MENU] key ► Select [Subtitle Language]



Press the controller to change the subtitle language.

Voice Language

Press the [MENU] key ► Select [Voice Language]



Press the controller to change the voice language.

Information

- Supported subtitle and voice languages may differ according to DVD title.

DVD

DVD Default Language

Press the [MENU] key ► Select [DVD Default Language]



This menu is used to set the languages used when playing the DVD. If you select 'Others' from the list of languages, the desired language can be searched by directly entering the corresponding language code.

Basic Mode Screen



No	Name	description
1	Mode	Displays currently operating mode
2	Track Index	Shows the current track number
3	PBC	Displays PBC function On/Off
4	Control Panel	Enables use of play/pause/search features When turned left/right: Searches previous/next file When pushed left/right: Plays previous/next file When pressed: Plays or pauses
5	Play Time	Displays the current play time
6	Full Screen	Converts VCD into full screen
7	MENU	Displays the pop up menu
8	List	Moves to the VCD list screen
9	PBC On/Off	Turns the PBC feature On/Off
10	PBC Menu	Moves to the PBC Menu screen
11	Repeat	Turns Repeat feature on/off
12	Sound Settings	Displays to the sound settings screen
13	Display Settings	Displays to the display settings screen

Starting Mode

Press the [HOME] Key ► Select DISC button.



VCD mode will automatically start once a VCD disc is inserted.

Playing a VCD

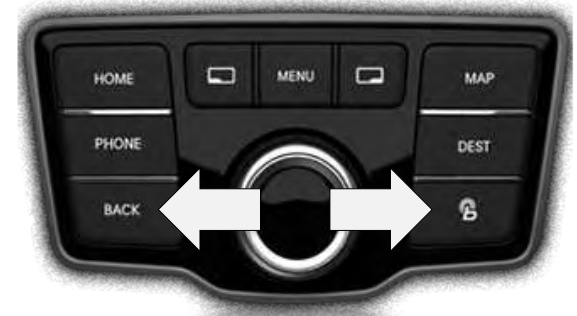
Press the controller to play or pause the VCD.



VCD do not display the play graph and total time information.

Selecting VCD tracks

While playing ► Shortly push the controller left/right (under 0.8 seconds) or shortly press the [<SEEK], [TRACK>] keys to select the previous/next track.



Fast-forwarding or Rewinding VCD tracks

While playing ► Push and hold the controller left/right (over 0.8 seconds) or press and hold the [<SEEK], [TRACK>] keys to rewind/fast-forward the current VCD.



Searching VCD tracks

While playing ► Turn the controller (○ TUNE knob) left/right to search for tracks.



During search, the track name is displayed. Press the controller (○ TUNE knob) to play the selected track.

Viewing in Full Screen

Press the [LFT] Full Screen button to view the VCD in full screen.



Information

- If there are no operations for 10 seconds, the screen menu will automatically disappear.

VCD

VCD List

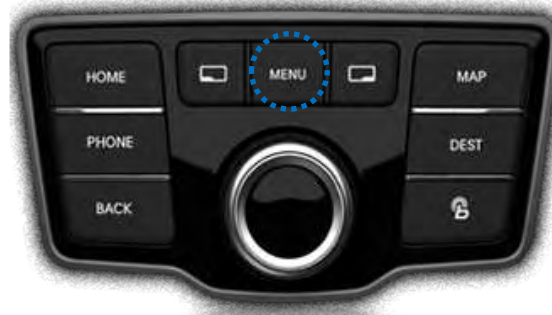
Press the [RHT] List button to view the play list.



Select the desired track by turning the controller. Once the desired track has been found, press the controller to play the track.

Using the Menu Key

Press the [MENU] key to use the PBC On/Off, PBC Menu, Repeat, Sound Settings and Display Settings.



PBC On/Off

Press the [MENU] key ► Select [PBC On/Off] ► Select the [0]~[9] buttons ► Set and press [Done] button.



Within PBC ON state, press the [PBC Menu] button to display the PBC menu screen.

Information

- Press the [PBC On/Off] button to turn the PBC setting OFF.
- Press the [<<] [>>] buttons to move to the previous/next list menu page.

Repeat

Press the [MENU] key ► Select [Repeat]



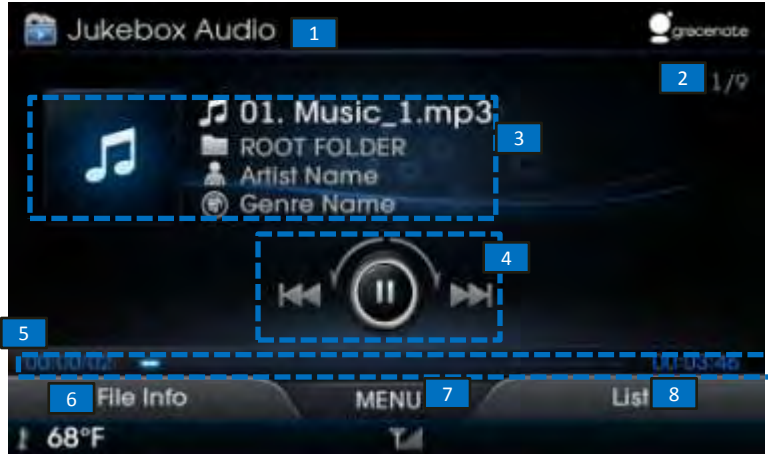
The current track is repeated.

Information

- Press the [Repeat] button again to turn off repeat.

JUKEBOX

Basic Mode Screen(Audio)



No	Name	description
1	Mode	Displays currently operating mode
2	File Index	Shows the current file/total files
3	Play File Info	Shows track number/album/artist/genre information
4	Control Panel	Enables use of play/pause/select/search features <ul style="list-style-type: none"> • When turned left/right: Searches previous/next files • When pushed left/right: Plays previous/next file • When pressed: Plays or pauses the file
5	Play Time	Displays the play time information
6	File Info	Shows file information
7	MENU	Displays the pop up menus
8	List	Moves to the Jukebox Audio list screen
9	Shuffle	Turns Shuffle feature on/off
10	Repeat	Turns Repeat feature on/off
11	Scan	Scans the beginning parts of files (approx 10 seconds per file)
12	Auto Playlist	Moves to list screen showing current song (Refer to the Auto Playlist mode for more information)
13	Jukebox Video	Moves to Jukebox Video mode
14	Jukebox Image	Moves to Jukebox Image mode
15	Sound Settings	Displays the sound settings screen
16	Display Settings	Displays the display settings screen

JUKEBOX

Basic Mode Screen(Video)



No	Name	description
1	Mode	Displays currently operating mode
2	File Index	Shows the current file/total number of files
3	Play File Info	Shows File name/Folder/Resolution information
4	Control Panel	Enables use of play/pause/select/search features When turned left/right: Searches previous/next files When pushed left/right: Plays previous/next file When pressed: Plays or pauses the file
5	Play Time	Displays the playtime information
6	Full Screen	Displays the video in full screen
7	MENU	Displays the pop up menus
8	List	Moves to the Jukebox Video list screen
9	Shuffle	Turns Shuffle feature on/off
10	Repeat	Turns Repeat feature on/off
11	DivX® Setting	Used to set DivX VOD related settings/subtitles and voice language settings
12	Jukebox Image	Moves to Jukebox Image mode
13	Jukebox Audio	Moves to Jukebox Audio mode
14	Sound Settings	Displays the sound settings screen
15	Display Settings	Displays the display settings screen

JUKEBOX

Basic Mode Screen(Image)



No	Name	description
1	Mode	Displays currently operating mode
2	File Index	Shows the current file/total files
3	Play File Info	Shows File name/Folder/Size/Resolution information
4	Control Panel	Enables use of play/pause/select/search features <ul style="list-style-type: none"> • When turned left/right: searches previous/next files • When pushed left/right: plays previous/next files • When pressed: Starts/stops slideshow
5	Full Screen	Displays the image in full screen
6	MENU	Displays the pop up menus
7	List	Moves to the Jukebox Image list screen
8	Zoom In/Out	Enlarges/reduces image (zoom in/out)
9	Rotate	Rotates image
10	Slideshow Setting	Set image slideshow time
11	Jukebox Audio	Moves to Jukebox Audio mode
12	Jukebox Video	Moves to Jukebox Video mode
13	Sound Settings	Displays the sound settings screen
14	Display Settings	Displays the display settings screen

JUKEBOX

Starting Mode

Press the [HOME] key ► Select the Jukebox button.



If there are files saved within the Jukebox, then the Jukebox menu will be enabled.

Once Jukebox is selected, the most recently operated mode (Audio, Image, and Video) will operate.

Information

- If Jukebox is being operated for the first time, then Jukebox Audio mode will begin to operate.

Jukebox Audio Mode

Playing Jukebox Audio

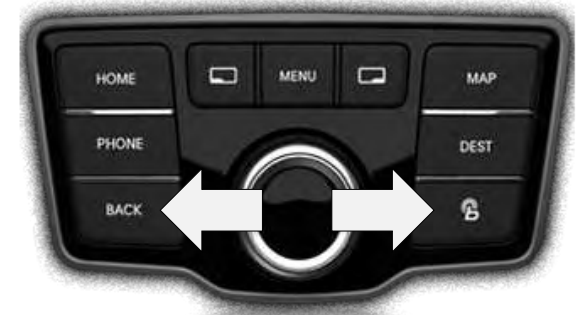
Press the controller to play or pause the current file.



While Gracenote checks the music information, the message "Indexing." will blink at the top right side. Once Indexing is complete, song information is displayed on the screen for songs supported by Gracenote.

Selecting Jukebox Audio Files

While playing ► Shortly push the controller left/right (under 0.8 seconds) or shortly press the [<SEEK], [TRACK>] keys to select the previous/next file.



JUKEBOX

Fast-forwarding or Rewinding Jukebox Audio Files

While playing ► Press and hold the controller in left/right (over 0.8 seconds) or press and hold the [<SEEK], [TRACK>] keys to rewind/fast-forward the current file.



Searching Jukebox Audio Files

While playing ► Turn the controller (○ TUNE knob) left/right to search for files.



During search, the file name is displayed. Press the controller(○ TUNE knob) to play the selected file.

File Info/Play Info

Press the [LFT] File Info button to view file information.



To return to the previous screen, select the [LFT] Play Info button.

JUKEBOX

Jukebox Audio List

Press the [RHT] List button to select from the list.



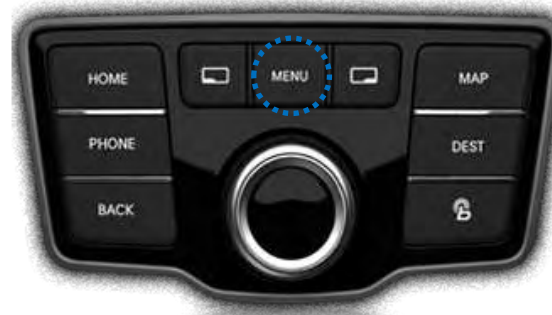
Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.



Once Gracenote indexing (checking for song information) is complete, songs can be selected by searching through categories from the root list screen.

Using the Menu Key

Press the [MENU] key to use the Shuffle, Repeat, Scan, Auto Playlist, Sound Settings and Display Settings. This menu is also used to move to other Jukebox modes.



Shuffle

Press the [MENU] key ► Select [Shuffle]
► Select [Shuffle All]



This option is used to play audio files within the Jukebox in random order.

No	Name	Description
1	Shuffle All	Play audio files within the Jukebox in random order
2	Off	Turn the Shuffle feature off

JUKEBOX

Repeat

Press the [MENU] key ► Select [Repeat]
► Select [Repeat]



The current song can be repeated.

No	Name	Description
1	Repeat	Repeats play of currently playing file
2	Off	Turn the Repeat feature off

Scan

Press the [MENU] key ► Select [Scan]
► Select [Scan All]



The beginning part (approximately first 10 seconds) of all files are played.

No	Name	Description
1	Scan All	Previews the first 10 seconds of all files
2	Off	Turn the Scan feature off

JUKEBOX

Using the List Menu Key

From the List screen, press the [MENU] key to use the Now Playing, Storage, Delete, and Delete All options.



Now Playing

From the list screen ► Press the [MENU] key ► Select [Now Playing]

The focus is moved to the currently playing file.

Storage Space

From the list screen ► Press the [MENU] key ► Select [Storage Space]



The total memory and available memory is displayed.

Delete

From the list screen ► Press the [MENU] key ► Select [Delete]

The selected file is deleted.

Delete All

From the list screen ► Press the [MENU] key ► Select [Delete All]

All files saved within Jukebox Audio are deleted.

JUKEBOX

Jukebox Video Mode

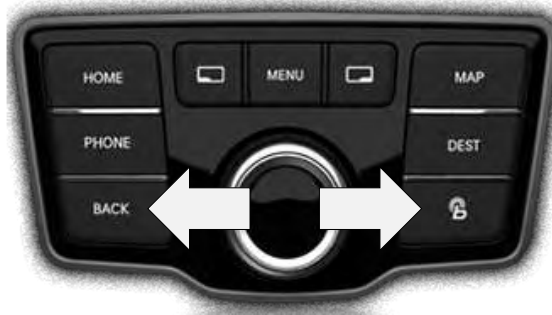
Playing Jukebox Video

Press the controller to play or pause the Jukebox Video.



Selecting Jukebox Video Files

While playing ► Shortly push the controller left/right (under 0.8 seconds) or shortly press the [<SEEK], [TRACK>] keys to select the previous/next file.



Fast-forwarding or Rewinding Jukebox Video Files

While playing ► Press and hold the controller in left/right direction (over 0.8 seconds) or press and hold the [<SEEK], [TRACK>] keys to rewind/fast-forward the current file.



Once the controller or [SEEK/TRACK] key is released, the file will begin playing at normal speed.

JUKEBOX

Searching Jukebox Video Files

While playing ► Turn the controller (○ TUNE knob) left/right to search for files.



During search, the image name is displayed. Press the controller (○ TUNE knob) to play the selected file.

Viewing in Full Screen

Press the [LFT] Full Screen button to view the file in full screen.



Information

- If there are no operations for 10 seconds, the menu will automatically disappear.

Jukebox Video Lists

Press the [RHT] List button to select from the list.



Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.

JUKEBOX

Using the Menu Key

Press the [MENU] key to use the Shuffle, Repeat, DivX® Settings, Sound Settings and Display Settings. This menu is also used to move to other Jukebox modes.



Shuffle

Press the [MENU] ► Select [Shuffle] ► Select [Shuffle All]



This option is used to play video files within the Jukebox in random order.

No	Name	Description
1	Shuffle All	Plays all files in random order
2	Off	Turn the Shuffle feature off

Repeat

Press the [MENU] ► Select [Repeat] ► Select [Repeat]



The current song or the all files within the folder can be repeated.

No	Name	Description
1	Repeat	Repeats play of currently playing file.
2	Off	Turn the Repeat feature off

JUKEBOX

DivX® Settings

Press the [MENU] key ► Select [DivX® Settings]



No	Name	Description
1	DivX®VOD	Set DivX VOD related options
2	Subtitle Language	Set Subtitle language
3	Voice Language	Set Voice language

Upon first use of this feature, you must register your product through the DivX website.

JUKEBOX

Using the List Menu Key

From the List screen, press the [MENU] key to use the Now Playing, Storage Space, Delete, and Delete All options.



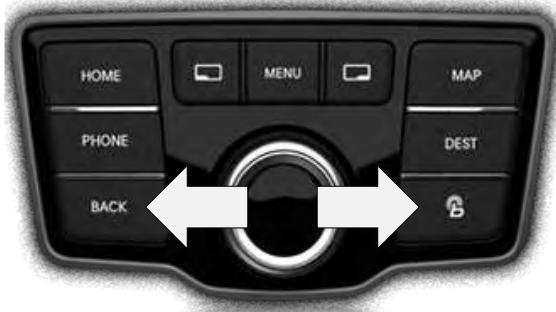
※ Refer to the 'Using the List Menu Key' of the Jukebox Audio for more information.

JUKEBOX

Jukebox Image Mode

Selecting Jukebox Image Files

While playing ► Shortly push the controller left/right (under 0.8 seconds) or shortly press the [<SEEK], [TRACK>] keys to select the previous/next file



Searching Jukebox Image Files

While Playing ► Turn the controller (○ TUNE knob) left/right ► Search files



During search, the image name is displayed. Press the controller (○ TUNE knob) to play the selected image.

Slideshow

Press the controller to start the slideshow.



JUKEBOX

Viewing in Full Screen

Press the [LFT] Full Screen button to view the Jukebox Video in full screen.



Information

- If there are no operations for 10 seconds, the menu will automatically disappear.

Jukebox Image List

Press the [RHT] List button to select from the list.



Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.

JUKEBOX

Using the Menu Key

Press the [MENU] key to use the Zoom In/Out, Rotate, Slideshow Setting, Sound Settings and Display Settings. This menu is also used to move to other Jukebox modes.



Zoom In/Out

Press the [MENU] key ► Select [Zoom In/Out]



Turn the controller left/right to enlarge or reduce the image size. The scale can be changed to 25%, 50%, 100%, 200%, 400%.

Information

- Press the controller to restore the original image size.
- When the image is not entirely displayed on the screen, different areas of the current image can be viewed by pushing the controller up/down/left/right.

Rotate

Press the [MENU] key ► Select [Rotate]



Each time the controller is turned, the image is rotated from 0°, 90°, 180°, 270°.

Information

- Press the controller to restore the original image size.

JUKEBOX

Slideshow Setting

Press the [MENU] key ► Select [Slideshow]



Image slideshow intervals can be set at [5secs], [10secs], [20secs], [30secs] intervals.

JUKEBOX

Using the List Menu Key

From the List screen, press the [MENU] key to use the Now Playing, Storage Space, Delete, and Delete All options.



※ Refer to the 'Using the List Menu Key' of the Jukebox Audio for more information.

USB

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 MP3 and WMA format files are not supported.
- 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 as well as NTFS file systems.
- Some USB devices may not be supported due to compatibility issues.
- Avoid contact between the USB connector with bodily parts/foreign 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.
- Please wait until the device fully recognizes the USB devices. The device supports only USB devices used to play music/video/image files.
- 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.
- 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.

USB

- 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.



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

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

Information

- In cases that are not fixed bit rates, the play time may not be properly displayed.
- If a problem occurs while playing or when playing an unsupported video format file, use an up-to-date encoding software to change the format for use.

USB MP3 Information and Precautions

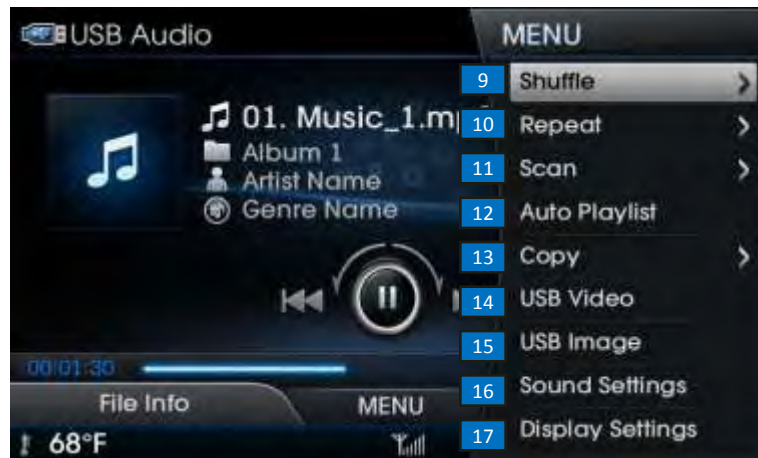
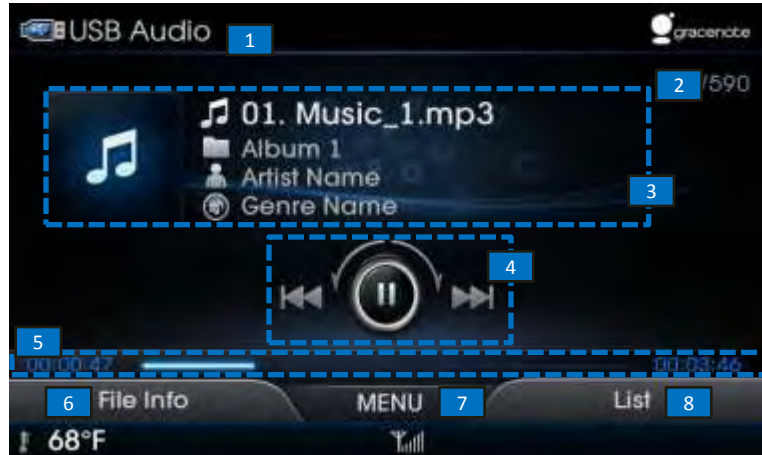
Product Name	Description
MP3 file Specification	Specification: MPEG1 AUDIO LAYER3
Recommended bit rates and sampling frequency	Acceptable sampling frequency:: 32, 44.1, 48 (KHz)
	Acceptable frequency: 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 (Kbps)
	96, 128, 192 Kbps fixed bit rate / 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 2350 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

Supported Video and Image Specification (USB/Jukebox)

Product Name	Description
Format	AVI(DivX), MPG, MP4
Video Coden	DivX 3/4/5/6, XviD, MPEG1/2, H264, WMV9
Video Resolution	DivX : 720 x 576, MPEG : 720 x 576 (30fps), WMV : 320 x 240
Audio Codec	MP3, AC3, AAC, OGG
Subtitle	SMI
Image Format	JPG, BMP, GIF, PNG
Image Resolution	4,000 x 3,000 max / 5MBytes
Unsupported File	<ul style="list-style-type: none">• Unsupported file specification• Format-changed file• H.264, MJPEG, or H.263 encoded AVI file• Unindexed file• File that exceeds supported bit rate range(3Mbps), WMV(0.7Mbps)• High resolution file may operate abnormally or not properly play.

USB

Basic Mode Screen(Audio)



No	Name	description
1	Mode	Displays currently operating mode
2	File Index	Shows the current file/total files
3	Play File Info	Shows file number/Album/Artist/Genre information
4	Control Panel	Enables use of play/pause/select/search features When turned left/right: Searches previous/next file When pushed left/right: Plays previous/next file When pressed: Plays or pauses the file
5	Play Time	Displays the play time information
6	File Info	Shows file information
7	MENU	Displays the pop up menus
8	List	Moves to the USB Audio list screen
9	Shuffle	Turns Shuffle feature on/off
10	Repeat	Turns Repeat feature on/off
11	Scan	Scans the beginning parts of files (approx 10 seconds per file)
12	Auto Playlist	Moves to list screen showing current song (Refer to the Auto Playlist mode for more information)
13	Copy	Copies file to Jukebox
14	USB Video	Moves to USB Video mode
15	USB Image	Moves to USB Image mode
16	Sound Settings	Displays the sound settings screen
17	Display Settings	Displays the display settings screen

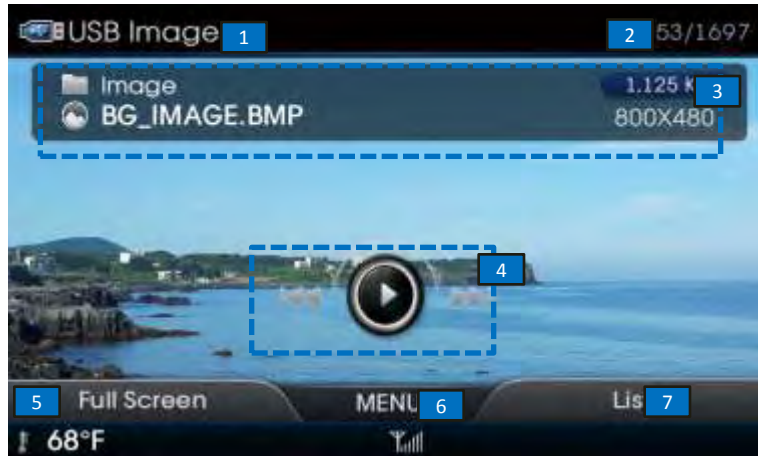
Basic Mode Screen(Video)



No	Name	description
1	Mode	Displays currently operating mode
2	File Index	Shows the current file/total number of files
3	Play File Info	Shows file name/Folder/Resolution information
4	Control Panel	Enables use of play/pause/select/search features When turned left/right : Searches previous/next files When pushed left/right : Plays previous/next file When pressed :Plays or pauses the file
5	Play Time	Displays the playtime information
6	Full Screen	Displays the video in full screen
7	MENU	Displays the pop up menus
8	List	Moves to the USB Video list screen
9	Shuffle	Turns Shuffle feature on/off
10	Repeat	Turns Repeat feature on/off
11	Copy	Copies file to Jukebox
12	DivX® Setting	Used to set DivX VOD related settings/subtitles and voice language settings
13	USB Image	Moves to USB Image mode
14	USB Audio	Moves to USB Audio mode
15	Sound Settings	Displays the sound settings screen
16	Display Settings	Displays the display settings screen

USB

Basic Mode Screen(Image)



No	Name	description
1	Mode	Displays currently operating mode
2	File Index	Shows the current file/total files
3	Play File Info	Shows File name/Folder/Size/Resolution information
4	Control Panel	Enables search/selection of previous/next files <ul style="list-style-type: none"> • When turned left/right: searches previous/next files • When pushed left/right: plays previous/next files • When pressed : Starts/stops slideshow
5	Full Screen	Displays the image in full screen
6	MENU	Displays the pop up menus
7	List	Moves to the USB Image list screen
8	Zoom In/Out	Enlarges/reduces image (zoom in/out)
9	Rotate	Rotates image
10	Slideshow Setting	Views images as slideshow
11	Copy	Copies file to Jukebox
12	USB Audio	Moves to USB Video mode
13	USB Video	Moves to USB Image mode
14	Sound Settings	Displays the sound settings screen
15	Display Settings	Displays the display settings screen

USB

Starting Mode

Press the [HOME] button ► Select the USB button.



USB mode will automatically start once a USB is inserted.

Notice

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

Information

- 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.

USB Audio Mode

Playing USB Audio

Press the controller to play or pause the USB Audio.

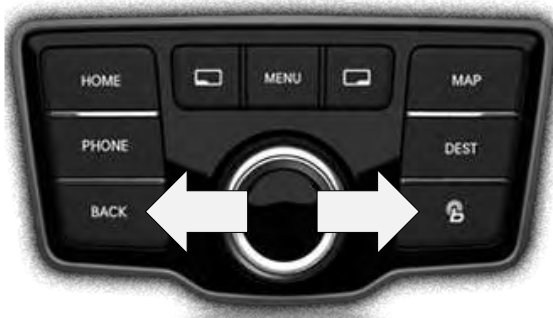


While Gracenote checks the music information, the message "Indexing." will blink at the top right side. Once Indexing is complete, song information is displayed on the screen for songs supported by Gracenote.

USB

Selecting USB Audio Files

While playing ► Shortly push the controller left/right (under 0.8 seconds) or shortly press the [SEEK]/[TRACK] key to select the previous/next file.



Fast-forwarding or Rewinding USB Audio Files

While playing ► Push and hold the controller left/right (over 0.8 seconds) or press and hold the [SEEK]/[TRACK] key to rewind /fast-forward the current file.



Searching USB Audio Files

While playing ► Turn the controller (○ TUNE knob) left/right to search for files.



During search, the file name is displayed. Press the controller (○ TUNE knob) to play the selected file.

USB

File Info/Play Info

Press the [LFT] File Info button to view the file information.



To return to the previous screen, select the [LFT] Play Info button.

Information

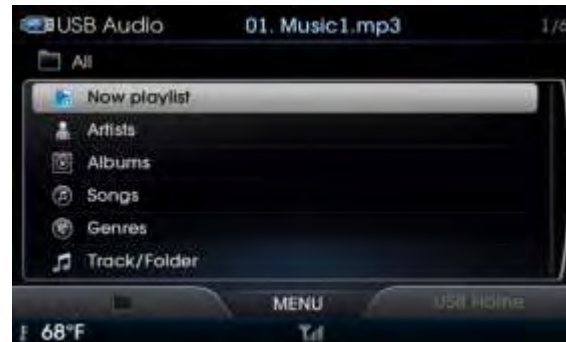
- Information is not displayed when ID3 tag or Gracenote song information does not exist.

USB Audio List

Press the [RHT] List button to select from the list.



Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.



You can move to the previous folder or the root list screen by pressing the [LFT] Category Up button and the [RHT] USB Home button.

Once Gracenote indexing (checking for song information) is complete, files can be selected by searching through categories from the root list screen.

Using the Menu Key

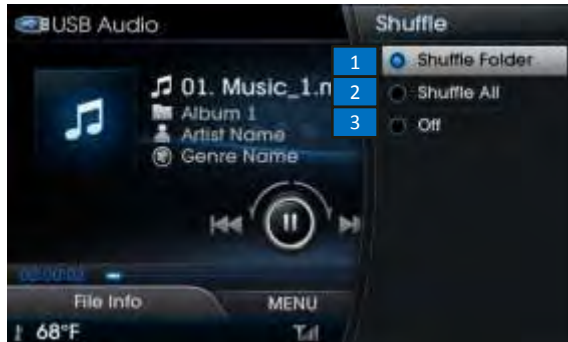
Press the [MENU] key to use the Shuffle, Repeat, Scan, Auto Playlist, Copy, Sound Settings and Display Settings. This menu is also used to move to other USB play modes.



USB

Shuffle

Press the [MENU] key ► Select [Shuffle]
► Select [Shuffle Folder] or [Shuffle All]



All files within the folder or USB can be played in random order.

No	Name	Description
1	Shuffle Folder	Plays files within the current folder in random order.
2	Shuffle All	Plays files within the USB in random order.
3	Off	Turn the Shuffle feature off.

If songs are played by artists, albums, Songs or genres from the root list, shuffle menus are displayed as [Shuffle] and [Off],

Repeat

Press the [MENU] key ► Select [Repeat]
► Select [Repeat] or [Repeat Folder]



The current song or the all files within the folder can be repeated.

No	Name	Description
1	Repeat	Repeats play of currently playing file.
2	Repeat Folder	Repeats the files in the current folder.
3	Off	Turn the Repeat feature off.

If songs are played by artists, albums, songs or genres from the root list, repeat menus are displayed as [Repeat] and [Off],

Scan

Press the [MENU] key ► Select [Scan]
► Select [Scan All] or [Scan Folder]



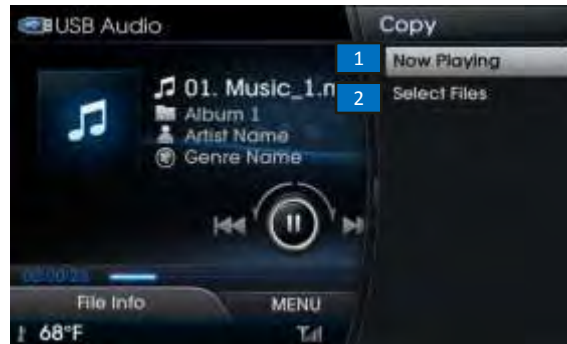
The beginning part (approximately first 10 seconds) of all files within the current folder or the entire USB are scanned.

No	Name	Description
1	Scan All	Scans files within the USB in random order.
2	Scan Folder	Searches files within the current folder.
3	Off	Turn the Scan feature off.

If songs are played by artists, albums, Songs or genres from the root list, scan menus are displayed as [Scan Playlist] and [Off],

Copying to Jukebox

Press the [MENU] key ► Select [Copy]
 ► Set copy options



No	Name	Description
1	Now Playing	Copy currently playing file into the Jukebox
2	Select Files	Select desired files from the list to copy
3	Current Selection	Copies currently selected files

If [Select Files] is selected, desired files can be selected to copy into the Jukebox. Turn the controller to select files. Once files are selected, press the [RHT] Copy Selected File button to copy selected files into the Jukebox.

USB



Information

- Copying will be canceled if you move to a different mode while copying is in progress.

Information

- The [Select Files] button can be used to select files within the current folder.



While copying is in progress, press the [OK] button to display the play screen. Within the play screen, press the [MENU] key and [Cancel Copy] button to cancel copying.

USB

Using the List Menu Key

From the List screen, press the [MENU] key to use the Copy and Now Playing options.



Copy

From the list screen ► Press the [MENU] key ► Select [Copy]

※ Refer to the section of copying within the Jukebox section.

Now Playing

From the list screen ► Press the [MENU] key ► Select [Now Playing]

The focus is moved to the currently playing file.

USB Video Mode

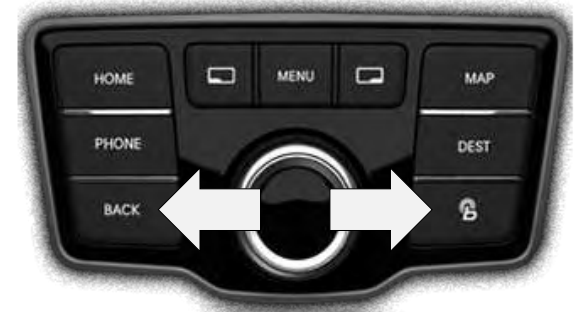
Playing USB Video

Press the controller to play or pause the USB Video.



Selecting USB Video Files

While playing ► Shortly push the controller left/right (under 0.8 seconds) or shortly press the [SEEK], [TRACK] key to select the previous/next file.



USB

Fast-forwarding or Rewinding USB Video Files

While playing ► Push and hold the controller left/right (over 0.8 seconds) or press and hold the [SEEK], [TRACK] key to rewind/fast-forward the current file.



Once the controller or (SEEK/TRACK) key is released, the file will begin playing at normal speed.

Searching USB Video Files

While playing ► Turn the controller (○ TUNE knob) left/right to search for files.



During search, the file name is displayed. Press the controller (○ TUNE knob) to play the selected file and display the basic display info.

Viewing in Full Screen

Press the [LFT] Full Screen button to view the file in full screen.



Information

- If there are no operations for 10 seconds, the menu will automatically disappear.

USB

USB Video List

Press the [RHT] List button to select from the list.



Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.

You can move to the previous folder or the root list screen by pressing the [LFT] Category Up and [RHT] USB Home buttons.

Using the Menu Key

Press the [MENU] key to use the Shuffle, Repeat, Copy, DivX® Settings, Sound Settings and Display Settings. This menu is also used to move to other USB play modes.



Shuffle

Press the [MENU] key ► Select [Shuffle] ► [Shuffle Folder] or [Shuffle All]



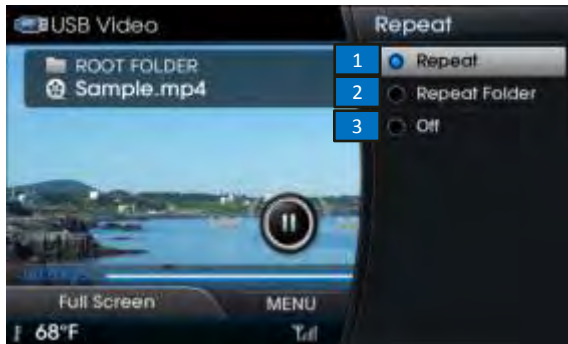
Folders or All files within the USB can be played in random order.

No	Name	Description
1	Shuffle Folder	Plays files within the current folder in random order.
2	Shuffle All	Plays files within the USB in random order.
3	Off	Turn the Shuffle feature off.

USB

Repeat

Press the [MENU] key ► Select [Repeat]
► Select [Repeat] or [Repeat Folder]



The current song or the all files within the folder can be repeated.

No	Name	Description
1	Repeat	Repeats play of currently playing file.
2	Repeat Folder	Repeats the files in the current folder.
3	Off	Turn the Repeat feature off.

Copying to Jukebox

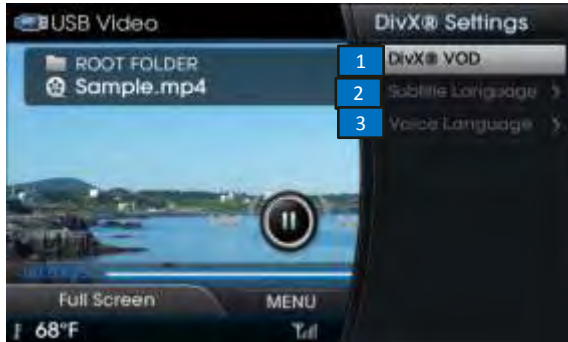
Press the [MENU] key ► Select [Copy]
► Set copy options

※ Refer to the USB Audio 'Copying to Jukebox' section for more information.

USB

DivX Setting

Press the [MENU] key ► Select [DivX® Settings]



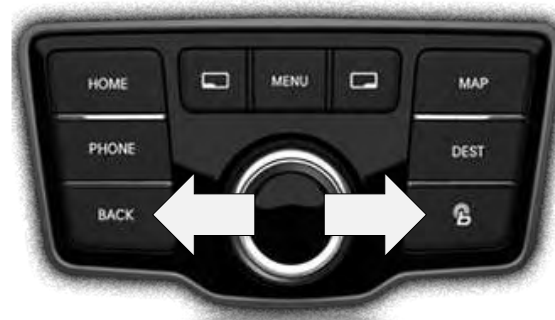
No	Name	Description
1	DivX® VOD	Set DivX® VOD features
2	Subtitle Language	Set subtitle language
3	Voice Language	Set Voice language

When using DivX for the first time, you must register the product through the DivX website.

USB Image Mode

Selecting USB Image Files

While playing ▶ Shortly push the controller left/right (under 0.8 seconds) or shortly press the [SEEK], [TRACK] key to select the previous/next file.



Searching USB Image Files

While playing ▶ Turn the controller (○ TUNE knob) left/right to search for files.



During search, the image name is displayed. Press the controller (○ TUNE knob) to play the selected image.

USB

Slideshow Show

Press the controller and select the [▶] button to start the slideshow.



Viewing in Full Screen

Press the [LFT] Full Screen button to view the file in full screen.



Information

- If there are no operations for 10 seconds, the menu will automatically disappear.

USB Image List

Press the [RHT] List button to select from the list.



Select the desired file by turning the controller. Once the desired file has been found, press the controller to play the file.

You can move to the previous folder or the root list screen by pressing the [LFT] and [RHT] keys.

USB

Using the Menu Key

Press the [MENU] key to use the Zoom In/Out, Rotate, Slideshow, Copy, Sound Settings and Display Settings options. This menu is also used to move to other USB play modes.



Zoom In/Out

Press the [MENU] key ► Select [Zoom In/Out]



Turn the controller left/right to enlarge or reduce the image size. The scale can be changed to 25%, 50%, 100%, 200%, and 400%.

Information

- Press the controller to restore the original image size.
- When images are not all displayed on the screen, pushing the controller in up/down/left/right directions will display other images.

Rotate

Press the [MENU] key ► Select [Rotate]



Each time the controller is rotated, the image is rotated from 0°, 90°, 180°, 270°.

Information

- Press the controller to restore the original image state.

USB

Slideshow Setting

Press the [MENU] key ► Select [Slideshow]



Image slideshow intervals can be set at [5secs], [10secs], [20secs], [30secs] intervals.

Copying to Jukebox

Press the [MENU] key ► Select [Copy]
► Set copy options

※ Refer to the USB Audio 'Copying to Jukebox' section for more information.

Information

- Copying will be canceled if you move to a different mode while copying is in progress.

iPod

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 in the Audio Video 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 Audio Video 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 is connected, this problem occurs as the sound source is changed from the Dock Connector (USB connector cable) to Bluebird (Audio Video Navigation Bluetooth® Module).
- To listen to the iPod sound, re-connect 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 products), will charge the iPod through the head unit.
- 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.
- 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. then the system may not properly restore the previously operated mode. (For iPads, battery charging is not supported.)
- When playing iPods, use an iPod-dedicated car cable. Normal operations cannot be guaranteed when a dedicated iPod cable is not used.
- if music or video applications are playing or active within the connected iPod device, the contents of such applications may begin playing. In such cases, first end such applications within the iPod device before connecting with the system.

Supported iPod devices

Device / Generation	First	Second	Third	Fourth	Fifth	Sixth
iPod classic	O	O	Not Released			
iPod nano	O	O	O	O	O	O
iPod mini	Not Supported					
iPod shuffle	Not Supported					
iPod touch	O	O	O	O	Not Released	
iPhone	Not Released		O	O	Not Released	
iPad	O	O	Not Released			

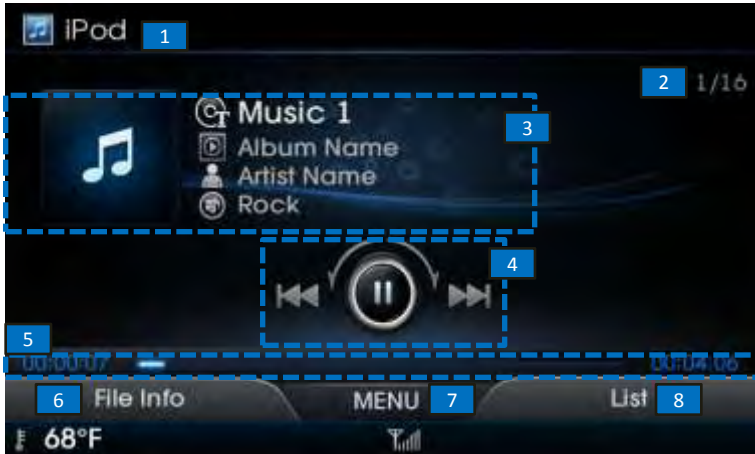
Search Steps

(may differ depending on the type of iPod device.)

Category	1 Step	2 Step	3 Step	4 Step	5 Step
Playlist	Playlist	Play List name (category is same as iPod)			
Artist	Artist	Artist Name	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	

iPod

Basic Mode Screen



No	Name	Description
1	Mode	Displays currently operating mode
2	File Index	Shows the current file/total files within the iPod
3	Play File Info	Displays Title/Album/Artist/Genre info
4	Control Panel	Enables use of play/pause/select/search features <ul style="list-style-type: none"> • When turned left/right: Moves to previous/next songs • When pushed left/right: Plays previous/next songs • When pressed: Plays or pauses
5	Play Time	Displays the play time information
6	File Info	Shows file information
7	MENU	Displays the pop up menu
8	List	Moves to the list screen
9	Shuffle	Turns Shuffle feature on/off
10	Repeat	Turns Repeat feature on/off
11	Sound Settings	Displays to the sound settings screen
12	Display Settings	Displays to the display settings screen

iPod

Starting Mode

Press the [HOME] button ► Select [iPod]



iPod mode will automatically start once an iPod is connected.

Information

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

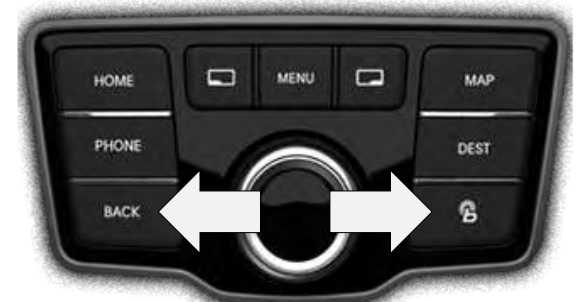
Playing iPod

Press the controller to play or pause the iPod.



Selecting iPod File

While playing ► Shortly push the controller left/right (under 0.8 seconds) or shortly press the [SEEK], [TRACK] key to select the previous/next song.



iPod

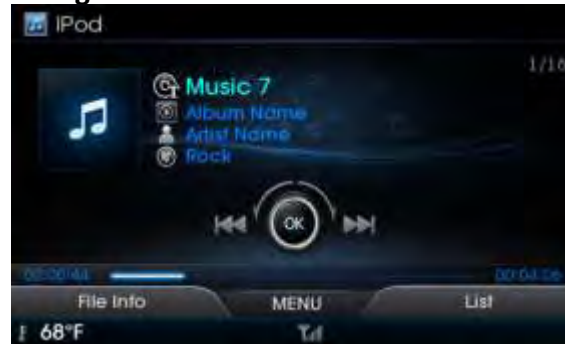
Fast-forwarding or Rewinding iPod Files

While playing ► Push and hold the controller left/right (over 0.8 seconds) or press and hold the [SEEK], [TRACK] key to rewind/fast-forward the current song.



Searching iPod Files

While playing ► Turn the controller (○ TUNE knob) left/right to search for songs.



During search, the song name is displayed. Press the controller (○ TUNE knob) to play the selected song.

File Info/Play Info

Press the [LHT] File Info button to select Play Info to view the file information.



To return to the previous screen, select the [LFT] Play Info button.

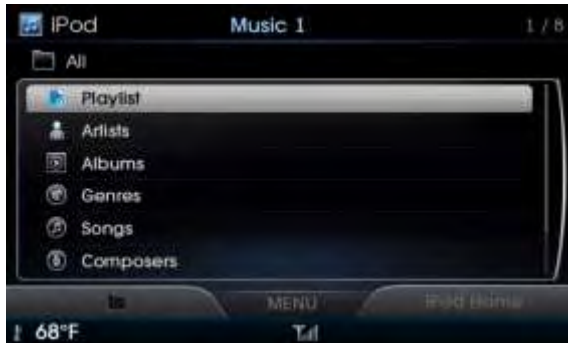
Information

- No information are shown for MP3 files without file information.

iPod

Searching iPod List

Press the [RHT] key to select from the list.



Songs can be searched from various categories, including Playlist, Artists, Albums, Genres, Songs Composers, Audiobooks, and Podcasts..

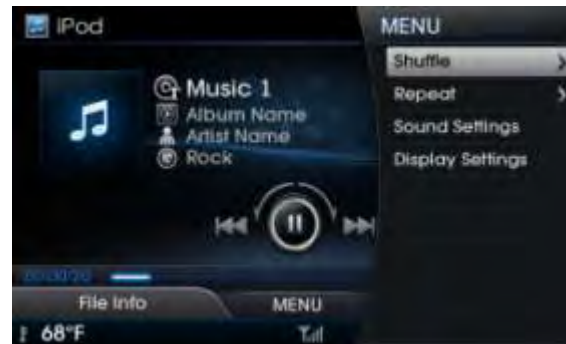
You can move to the previous category or the root list screen by pressing the [LFT] Category Up and [RHT] iPod Home buttons.

Information

- If the search mode is accessed while playing a song, the most recently searched step will become displayed.
- Upon initial connection, the search steps may differ depending on the type of iPod device.

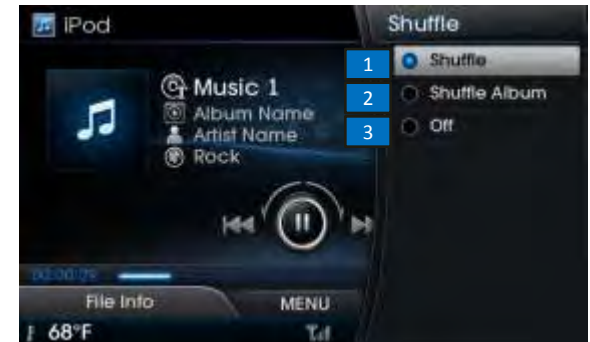
Using the Menu Key

Press the [MENU] key to use the Shuffle, Repeat, Sound Settings and Display Settings.



Shuffle

Press the [MENU] key ► Select [Shuffle]
► Select [Shuffle] or [Shuffle Album]

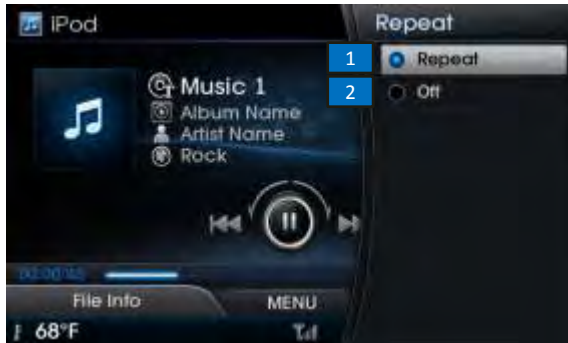


No	Name	Description
1	Shuffle	Plays songs within play list in random order
2	Shuffle Album	Plays albums in random order (plays songs within the album in sequential order)
3	Off	Turn the Shuffle feature off.

iPod

Repeat

Press the [MENU] key ► Select [Repeat]
 ► Select [Repeat]



The current song is repeated.

No	Name	Description
1	Repeat	Repeats play of currently playing file.
2	Off	Turn the Repeat feature off.

AUX

Starting Mode

Press the [HOME] button ► Select the AUX button.



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/video player (camcorder, car VCR, etc.) has been connected.

- The AUX volume can be controlled separately from other AV modes.

Notice

- Connecting a connector jack to the AUX terminal without an external device will convert the system to AUX mode, but only output noise. When an external device is not being used, also 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.



External AUDIO and VIDEO players (Camcorders, car VCR, etc.) 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.

Notice

- This device supports the NTSC color system. Other color systems are not supported.

Bluetooth Audio

About Using Bluetooth® Audio

- Bluetooth® Audio Mode can be used only when a Bluetooth® phone has been connected.
- While Bluetooth® Audio is playing, disconnecting the Bluetooth® phone will also terminate Bluetooth music.
- Bluetooth® streaming audio may not be supported in some mobile phones.
- If you switch to the Bluetooth mode screen while playing streaming audio, then the streaming audio will stop and the previous AV mode will be restored.

Notice

- If Bluetooth Audio Streaming is used simultaneously with another music application, then the display and sound may operate abnormally.

Starting Mode

Press the [HOME] button ► Select the [Bluetooth Audio] button.



Notice

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

Playing Bluetooth Audio

Press the controller to begin playing Bluetooth Audio. Pressing the controller again will pause the Bluetooth Audio.

