Multimedia System

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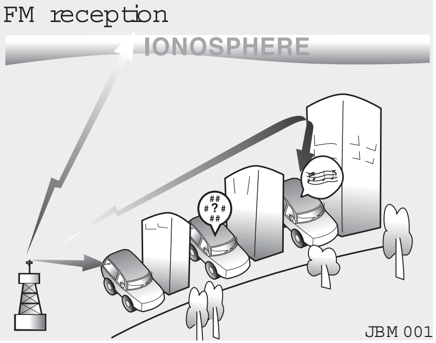
How vehicle audio works

FM reception



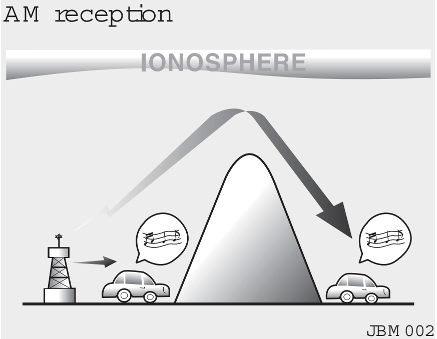
JBM001

AM and FM radio signals are broadcast from transmitter towers located around your city. They are intercepted by the radio antenna on your vehicle. This signal is then processed by the radio and sent to your vehicle speakers.

When a strong radio signal has reached your vehicle, the precise engineering of your audio system ensures the best possible quality reproduction. However, in some cases the signal coming to your vehicle may not be strong and clear.

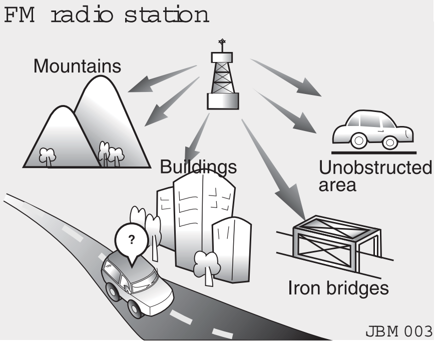
This can be due to factors, such as the distance from the radio station, closeness of other strong radio stations or the presence of buildings, bridges or other large obstructions in the area.

AM reception



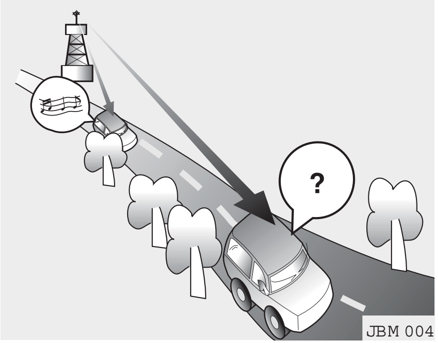
JBM002

AM broadcasts can be received at greater distances than FM broadcasts. This is because AM radio waves are transmitted at low frequencies. These long distance, low frequency radio waves can follow the curvature of the earth rather than travelling straight. In addition, they curve around obstructions resulting in better signal coverage.



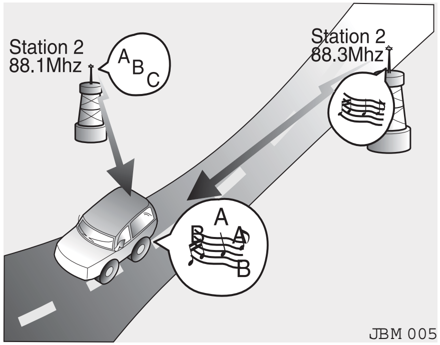
JBM 003

FM broadcasts are transmitted at high frequencies and do not bend to follow the earth's surface. Because of this, FM broadcasts generally begin to fade within short distances from the station. Also, FM signals are easily affected by buildings, mountains, and obstructions. This can lead to undesirable or unpleasant listening conditions which might lead you to believe a problem exists with your radio. The following conditions are normal and do not indicate radio trouble:



JBM 004

- Fading - As your vehicle moves away from the radio station, the signal will weaken and sound will begin to fade. When this occurs, we suggest that you select another stronger station.
- Flutter/Static - Weak FM signals or large obstructions between the transmitter and your radio can disturb the signal causing static or fluttering noises to occur. Reducing the treble level may lessen this effect until the disturbance clears.



JBM 005

- Station Swapping - As an FM signal weakens, another more powerful signal near the same frequency may begin to play. This is because your radio is designed to lock onto the clearest signal. If this occurs, select another station with a stronger signal.
- Multi-Path Cancellation - Radio signals being received from several directions can cause distortion or fluttering. This can be caused by a direct and reflected signal from the same station, or by signals from two stations with close frequencies. If this occurs, select another station until the condition has passed.

Caring for disc

- If the temperature inside the car is too high, open the car windows to ventilate before using the system.
- It is illegal to copy and use MP3/WMA files without permission. Use CDs that are created only by lawful means.
- Do not apply volatile agents, such as benzene and thinner, normal cleaners and magnetic sprays made for analogue disc onto CDs.
- To prevent the disc surface from getting damaged, hold CDs by the edges or the center hole only.
- Clean the disc surface with a piece of soft cloth before playback (wipe it from the center to the outside edge).
- Do not damage the disc surface or attach pieces of sticky tape or paper.
- Make certain only CDs are inserted into the CD player (Do not insert more than one CD at a time).
- Keep CDs in their cases after use to protect them from scratches or dirt.
- Depending on the type of CD-R/CD-RW CDs, certain CDs may not operate normally according to the manufacturing companies. In such circumstances, continued use may cause malfunctions to your audio system.

NOTICE - Playing an Incompatible Copy Protected Audio CD

Some copy protected CDs, which do not comply with international audio CD standards (Red Book), may not play on your car audio. Please note that inabilities to properly play a copy protected CD may indicate that the CD is defective, not the CD player.

MP3 File Information

• Supported Audio Formats

File System	ISO 9660 Level1
	ISO 9660 Level2
	Romeo / Juliet (128 characters)
Audio Compression	MPEG1 Audio Layer3
	MPEG2 Audio Layer3
	MPEG2.5 Audio Layer3
	Windows Media Audio Ver 7.X & 8.X

File formats that do not comply with the above formats may not be properly recognized or play without properly displaying file names or other information.

• Support for Compressed Files

1. Supported Bitrates (Kbps)

	MPEG1	MPEG2	MPEG2.5	WMA
	Layer3	Layer3	Layer3	High Range
BIT RATE (kbps)	32	8	8	48
	40	16	16	64
	48	24	24	80
	56	32	32	96
	64	40	40	128
	80	48	48	160
	96	56	56	192
	112	64	64	
	128	80	80	
	160	96	96	
	192	112	112	
	224	128	128	
	256	144	144	
	320	160	160	

2. Sampling Frequencies (Hz)

MPEG1	MPEG2	MPEG2.5	WMA
44100	22050	11025	32000
48000	24000	12000	44100
3000	16000	8000	48000

- For MP3/WMA compression files, differences in sound quality will occur depending on the bitrate. (Higher sound quality can be experienced with higher bitrates.)
- This device only recognizes files with MP3/WMA extensions. Other file extensions may not be properly recognized.

3. Maximum number of recognized folders and files
   - Folder : 255 folders for CD, 2,000 folders for USB
   - File : 999 files for CD, 6,000 files for USB

   There are no limitations to the number of recognized folder levels

• Language Support (Unicode Support)

1. English : 94 characters
2. Special characters and Symbols : 986 characters

   Languages other than Korean and English (including Chinese) are not included.

3. Text Display (Based on Unicode)
   - File name : Maximum 64 English characters
   - Folder name : Max 32 English characters

   Using the scroll feature allows you to see the entire name of files with names that are too long to be displayed at once.

- Compatibility by Disc Type

1. Playing MIXED CDs: First plays the audio CD, then plays the compressed file(s).
2. Playing EXTRA CDs: First plays the audio CD, then plays the compressed file(s).
3. Playing multisession CDs: Plays in order of sessions
   - MIXED CD : CD type in which both MP3 and audio CD files are recognized in one disc.
   - Multisession CD CD type that includes more than two sessions. Different from Extra CDs, multisession CDs are recorded by sessions and have no media limitation.

- Precautions upon Writing CDs

1. In all cases except when creating multisession discs, check the close session option before creating the disc. Though product malfunctions will not occur, some time may be required for the device to check whether the session state is closed (approximately 25 seconds). (Additional time may also be required depending on the number of folders or files.)
2. Changing the MP3/WMA file extensions or changing files of other extensions to MP3/WMA may result in product malfunction.
3. When naming files with MP3/WMA file extensions, write using only Korean and English. (Languages other than Korean and English are not supported and are displayed as blank.)
4. Unauthorized use or duplication of music files are prohibited by law.
5. Prolonged use of CD-R/CD-RW discs that do not satisfy related standards and/or specifications could result in product malfunction.
6. Unauthorized use or duplication of MP3/WMA files is prohibited by law.

Using a cellular phone or a two-way radio

When a cellular phone is used inside the vehicle, noise may be produced from the audio system. This does not mean that something is wrong with the audio equipment. In such a case, try to operate mobile devices as far from the audio equipment as possible.

⚠ CAUTION

When using a communication system such as a cellular phone or a radio set inside the vehicle, a separate external antenna must be fitted. When a cellular phone or a radio set is used with an internal antenna alone, it may interfere with the vehicle's electrical system and adversely affect safe operation of the vehicle.

⚠ WARNING

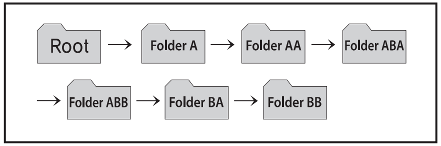
Do not use a cellular phone while driving. Stop at a safe location to use a cellular phone.

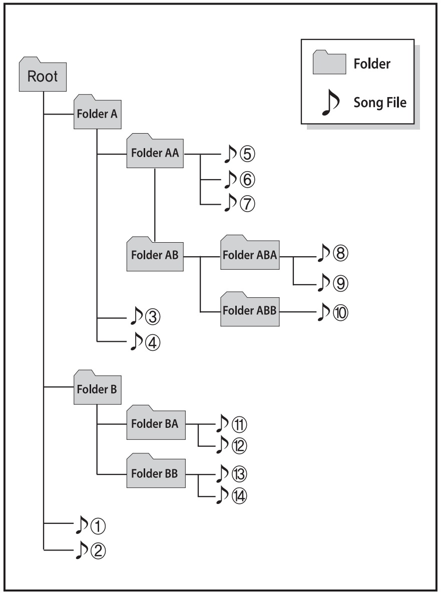
NOTE:

Order of playing files (folders) :

1. Song playing order : ① to ⑭ sequentially.
2. Folder playing order :

   If no song file is contained in the folder, that folder is not displayed.


Root
→
Folder A
→
Folder AA
→
Folder ABA
→
Folder ABB
→
Folder BA
→
Folder BB


Folder
Song File
Root
Folder A
Folder AA
♪⑤
♪⑥
♪⑦
Folder AB
Folder ABA
♪⑧
♪⑨
Folder ABB
♪⑩
♪③
♪④
Folder B
Folder BA
♪⑪
♪⑫
Folder BB
♪⑬
♪⑭
♪①
♪②

⚠ WARNING

- Do not stare at the screen while driving. Staring at the screen for prolonged periods of time could lead to traffic accidents.
- Do not disassemble, assemble, or modify the audio system. Such acts could result in accidents, fire, or electric shock.
- Using the phone while driving may lead to a lack of attention of traffic conditions and increase the likelihood of accidents. Use the phone feature after parking the vehicle.
- Heed caution not to spill water or introduce foreign objects into the device. Such acts could lead to smoke, fire, or product malfunction.

⚠ CAUTION

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.

- 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 levels before turning off the device.)

(Continued)

⚠ CAUTION

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- Do not place beverages close to the audio system. Spilling beverages may lead to system malfunction.
- In case of product malfunction, please contact your place of purchase or After Service center.
- Placing the audio system within an electromagnetic environment may result in noise interference.
- Prevent caustic solutions such as perfume and cosmetic oil from contacting the dashboard because they may cause damage or discoloration.

NOTICE - Using the discs

- This device has been manufactured to be compatible with software bearing the following logo marks.
- Do not clean discs with chemical solutions, such as record sprays, antistatic sprays, antistatic liquids, benzene, or thinners.
- After using a disc, put the disc back in its original case to prevent disc scratches.
- Hold discs by their edges or within the center hole to prevent damages to disc surfaces.
- Do not introduce foreign substances into the disc insert/eject slot. Introducing foreign substances could damage the device interior.
- Do not insert two discs simultaneously.
- When using CD-R/CD-RW discs, differences in disc reading and playing times may occur depending on the disc manufacturer, production method and the recording method as used by the user.

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- Clean fingerprints and dust off the disc surface (coated side) with a soft cloth.
- The use of CD-R/CD-RW discs attached with labels may result in disc slot jams or difficulties in disc removal. Such discs may also result in noise while playing.
- Some CD-R/CD-RW discs may not properly operate depending on the disc manufacturer, production method and the record method as used by the user. If problems persist, trying using a different CD as continued use may result in malfunctions.
- The performance of this product may differ depending on the CD-RW Drive Software.
- Copy-protected CDs such as S-type CDs may not function in the device. DATA discs cannot be played. (However, such discs may still operate but will do so abnormally.)

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- Do not use abnormally shaped discs (8cm, heart-shaped, octagon-shaped) as such discs could lead to malfunctions.
- If the disc is straddled on the disc slot without removal for 10 seconds, the disc will automatically be re-inserted into the disc player.
- Only genuine audio CDs are supported. Other discs may result in recognition failure (e.g. copy CD-R, CDs with labels)

NOTICE - Using the USB device

- 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. The USB device may not operate properly if the car ignition is turned on or off with the USB device connected.
- Heed caution to static electricity when connecting/disconnecting 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 is in some states.
- Only products formatted with byte/sectors under 64Kbyte will be recognized.
- This device recognizes USB devices formatted in FAT 12/16/32 file formats. This device does not recognize files in NTFS file format.

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- Some USB devices may not be supported due to compatibility issues.
- Avoid contact between the USB connector with bodily parts or foreign objects.
- Repeated connecting/disconnecting of USB devices within short periods of time may result in product malfunction.
- A strange noise may occur when disconnecting the USB.
- Make sure to connect/disconnect external USB devices with the audio power turned off.
- The amount of time required to recognize the USB device may differ depending on the type, size or file formats stored in the USB. Such differences in time are not indications of malfunctions.
- The device only supports USB devices used to play music files.
- USB images and videos are not supported.

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- 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.
- Files may not properly operate if application programs are installed to the USBs.
- 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.

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- 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.
- 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.
- The device may not operate properly when using USB HDDs or USBs subject to connection failures caused by vehicle vibrations. (e.g. i-stick type)

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- Avoid use of USB memory products that can also be used as key chains or mobile phone accessories. Use of such products may cause damage to the USB jack.
- Connecting an MP3 device or phone through various channels, such as AUX/BT or Audio/USB mode may result in pop noises or abnormal operation.

NOTICE - Using the iPod® device

- iPod® is a registered trademark of Apple Inc.
- 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)
- If the iPod® is connected to the vehicle while it is playing, a high pitch sound could occur for approximately 1-2 seconds immediately after connecting. If possible, connect the iPod to the vehicle with the iPod® stopped/paused.
- During ACC ON state, connecting the iPod® through the iPod® cable will charge the iPod® through the car audio system.
- When connecting with the iPod® cable, make sure to fully insert the jack to prevent communication interference.

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- When the EQ features of an external device, such as the iPod®, and the audio system are both active, EQ effects could overlap and cause sound deterioration and distortion.
  Whenever possible, turn off the EQ feature within the external device upon use by connecting with the audio system.
- Noise may occur when an iPod® or AUX device is connected. When such devices are not being used, disconnect the device for storage.
- When the iPod® or AUX device power is connected to the power jack, playing the external device may result in noise. In such cases, disconnect the power connection before use.
- Skipping or improper operation may occur depending on the characteristics of your iPod® /Phone® device.

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- If your iPhone® is connected to both the Bluetooth® Wireless Technology and USB, the sound may not be properly played. In your iPhone®, select the Dock connector or Bluetooth® Wireless Technology to change the sound output (source).
- iPod mode cannot be operated when the iPod® cannot be recognized due to versions that do not support communication protocols.
- 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 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)

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- Some iPod®s may not sync with the System depending on its version. If the Media is removed before the Media is recognized, then the system may not properly restore the previously operated mode. (iPad® charging is not supported.)

NOTICE - Using the AUX device

- If an external device connector is connected with the AUX terminal, then AUX mode will automatically operate. Once the connector is disconnected, the previous mode will be restored.
- AUX mode can be used only when an external audio player (camcorder, car VCR, etc.) has been connected.
- The AUX volume can be controlled separately from other audio modes.
- 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.
- Fully insert the AUX cable to the AUX jack upon use.

NOTICE - Before using the *Bluetooth*® handsfree

What is Bluetooth® ?

- Bluetooth® refers to a short-distance wireless networking technology which uses a 2.4GHz ~ 2.48GHz frequency to connect various devices within a certain distance.
- Supported within PCs, external devices, Bluetooth® phones, PDAs, various electronic devices, and automotive environments, Bluetooth® allows data to be transmitted at high speeds without having to use a connector cable.
- Bluetooth® Handsfree refers to a device which allows the user to conveniently make phone calls with Bluetooth® mobile phones through the audio system.
- Bluetooth® Handsfree may not be supported in some mobile phones. To learn more about mobile device compatibility.

NOTICE - Precautions for safe driving

- Bluetooth® Handsfree is a feature that enables drivers to practice safe driving. Connecting the head unit with a Bluetooth® phone allows the user to conveniently make and receive calls and use contacts. Before using Bluetooth®, carefully read the contents of this user's manual.
- Excessive use or operations while driving may lead to negligent driving practices and result in accidents. Refrain from excessive operations while driving.
- Viewing the screen for prolonged periods of time is dangerous and may lead to accidents. When driving, view the screen only for short periods of time.

NOTICE - When connecting a *Bluetooth*® phone

- Before connecting the head unit with the mobile phone, check to see that the mobile phone supports Bluetooth® features.
- Even if the phone supports Bluetooth®, the phone will not be found during device searches if the phone has been set to hidden state or the Bluetooth® power is turned off. Disable the hidden state or turn on the Bluetooth® power prior to searching/connecting with the Head unit.
- Bluetooth phone is automatically connected when the ignition on.
- If you do not want automatic connection with your Bluetooth® device, turn off the Bluetooth® feature within your mobile phone.
- The Handsfree call volume and quality may differ depending on the mobile phone.

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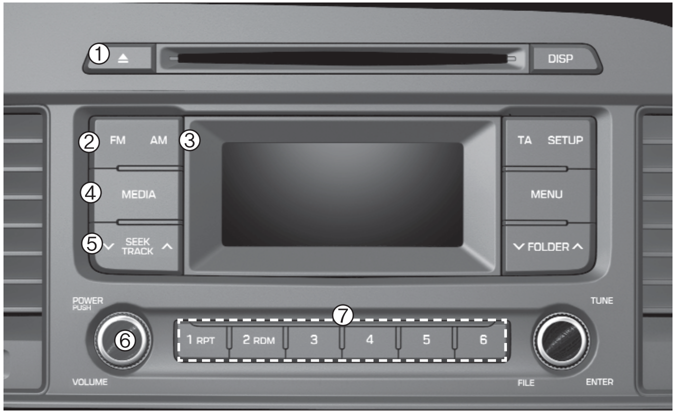
- Park the vehicle when connecting the head unit with the mobile phone.
- Bluetooth® connection may become intermittently disconnected in some mobile phones. Follow these steps to try again.
  1. Within the mobile phone, turn the Bluetooth® function off/on and try again.
  2. Turn the mobile phone power Off/On and try again.
  3. Completely remove the mobile phone battery, reboot, and then again.
  4. Reboot the Audio System and try again.
  5. Delete all paired devices, pair and try again.
- Handsfree call quality and volume may differ depending on the model of your mobile phone.

SYSTEM CONTROLLERS AND FUNCTIONS

Display and settings may differ depending on the selected audio.

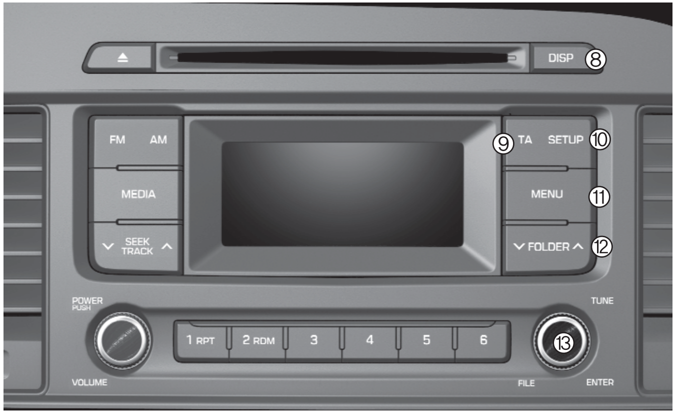
Audio Head Unit (For RDS model)



Name	Description
① ▲	Ejects the disc.
② FM	• Changes to FM mode. • Each time the key is pressed, the mode changed in order of FM1 FM2.
③ AM	• Changes to AM mode. • Each time the key is pressed, the mode changed in order of AM.

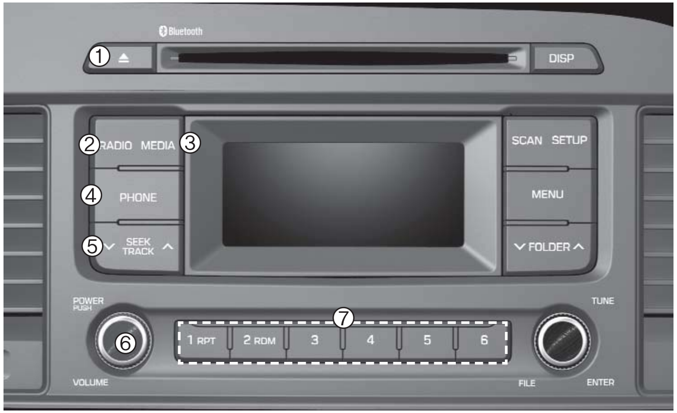
Name	Description
④ MEDIA	•Each time the key is pressed, the mode is changed in order of CD, USB, iPod®, AUX, My Music modes. In Setup>Display, the media pop up screen will be displayed when [Mode Pop up] is turned On. When the pop up screen is displayed, use the ◉ TUNE knob or keys 1 ~ 4 to select the desired mode.
⑤ SEEK TRACK	• Radio Mode : Automatically searches for broadcast frequencies. • CD, USB, iPod®, My Music modes : - Shortly press the key : Moves to next or previous song (file) - Press and hold the key : Rewinds or fast-forwards the current song (file)
⑥ ◉ PWR/VOL knob	• ◉ Power Knob : Turns power On/Off by pressing the knob • ◉ Volume Knob : Sets volume by turning the knob left/right
⑦ 1 ~ 6 (Preset)	• Radio Mode : Saves frequencies (channels) or receives saved frequencies (channels) • CD, USB, iPod®, My Music mode - 1 : Repeat - 2 : Random

Audio Head Unit (For RDS model)

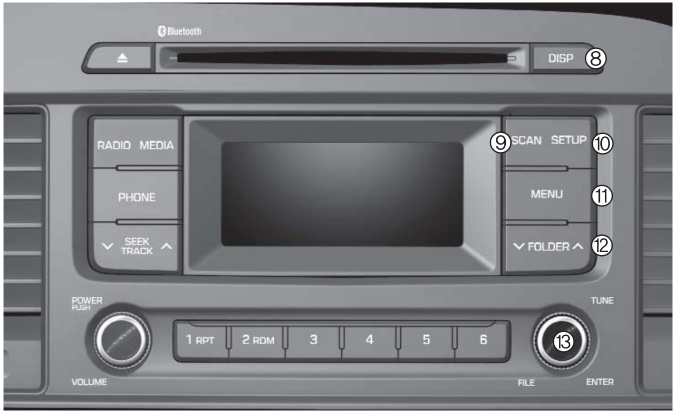

DISP
⑧
FM
AM
MEDIA
SEEK
TRACK
⑨
TA
SETUP
⑩
MENU
⑪
FOLDER
⑫
POWER
PUSH
VOLUME
1 RPT
2 RDM
3
4
5
6
TUNE
⑬
FILE
ENTER

Name	Description
⑧ **DISP**	• Each time the button is shortly pressed, it sets the screen Off Screen On Screen Off Audio operation is maintained and only the screen will be turned Off. In the screen Off state, press any key to turn the screen On again.
⑨ **TA**	Set TA (Traffic Announcement) feature On/Off.
⑩ **SETUP**	• Shortly press the key : Moves to the Display, Sound, System setting modes
⑪ **MENU**	• Displays menus for the current mode.
⑫ **∨FOLDER∧**	• MP3, CD, USB mode : Folder Search May differ depending on the selected audio
⑬ ◉ TUNE knob	• Radio mode : Changes frequency by turning the knob left/right • CD, USB, iPod mode : Searches songs (files) by turning the knob left/right When the desired song is displayed, press the knob to play the song.

Audio Head Unit (For Bluetooth equipped model)



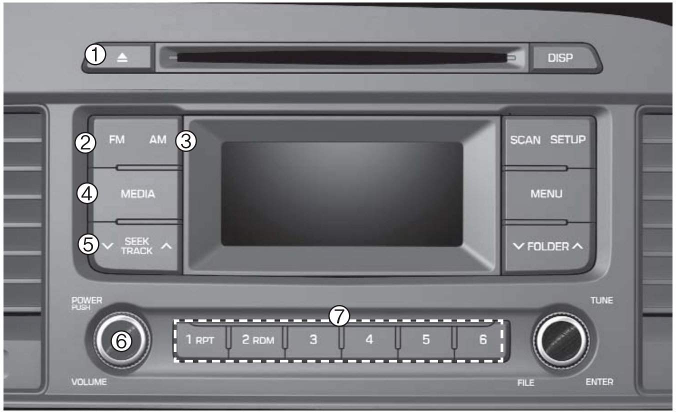
Name	Description
① ▲	Ejects the disc.
② RADIO	• Convert to Radio mode. • Each time the key is pressed, the mode is changed in order of FM1, FM2, AM.
③ MEDIA	• Each time the key is pressed, the mode is changed in order of CD, USB, iPod®, AUX, My Music, BT Audio modes. In Setup>Display, the media pop up screen will be displayed when [Mode Pop up] is turned On. When the pop up screen is displayed, use the ◎ TUNE knob or keys 1 ~ 5 to select the desired mode.
④ PHONE	(for *Bluetooth*® Wireless Technology equipped model) • Converts to Phone mode When a phone is not connected, the connection screen is displayed.
⑤ ∨ SEEK TRACK ∧	• Radio Mode : Automatically searches for broadcast frequencies. • CD, USB, iPod®, My Music modes : - Shortly press the key : Moves to next or previous song (file) - Press and hold the key : Rewinds or fast-forwards the current song (file)
⑥ ◎ POWER/VOLUME knob	• ◎ Power Knob : Turns power On/Off by pressing the knob • ◎ Volume Knob : Sets volume by turning the knob left/right
⑦ 1 ~ 6 (Preset)	• Radio Mode : Saves frequencies (channels) or receives saved frequencies (channels) • CD, USB, iPod, My Music mode - 1 : Repeat - 2 : Random



Name	Description
⑧ DISP	• Each time the button is shortly pressed, it sets the screen Off Screen On Screen Off Audio operation is maintained and only the screen will be turned Off. In the screen Off state, press any key to turn the screen On again.

Name	Description
⑨ SCAN	• Radio Mode - Shortly press the key : Previews each broadcast for 5 seconds each - Press and hold the key : Previews the broadcasts saved in Preset for 5 seconds each. Press the SCAN key again to continue listening to the current frequency. • CD, USB mode - Shortly press the key : Previews each song (file) for 10 seconds each Press the SCAN key again to continue listening to the current song (file).
⑩ SETUP	• Shortly press the key : Moves to the Display, Sound, Phone, System setting modes
⑪ MENU	• Displays menus for the current mode.
⑫ ∨FOLDER∧	• MP3, CD, USB mode : Folder Search May differ depending on the selected audio
⑬ ● TUNE knob	• Radio mode : Changes frequency by turning the knob left/right • CD, USB, iPod mode: Searches songs (files) by turning the knob left/right When the desired song is displayed, press the knob to play the song.

Audio Head Unit

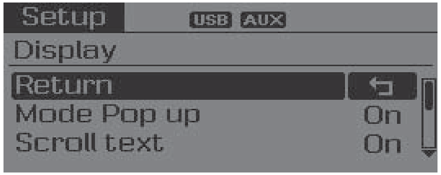


Name	Description
① ▲	Ejects the disc.
② FM	• Changes to FM mode. • Each time the key is pressed, the mode changed in order of FM1 FM2.
③ AM	• Changes to AM mode. • Each time the key is pressed, the mode changed in order of AM.
④ MEDIA	• Each time the key is pressed, the mode is changed in order of CD, USB, iPod®, AUX, My Music modes. In Setup>Display, the media pop up screen will be displayed when [Mode Pop up] is turned On. When the pop up screen is displayed, use the ◎ TUNE knob or keys 1 ~ 4 to select the desired mode.
⑤ ∨ SEEK TRACK ∧	• Radio Mode : Automatically searches for broadcast frequencies. • CD, USB, iPod®, My Music modes : - Shortly press the key : Moves to next or previous song (file) - Press and hold the key : Rewinds or fast-forwards the current song (file)
⑥ ◎ PWR/ VOL knob	• ◎ Power Knob : Turns power On/Off by pressing the knob • ◎ Volume Knob : Sets volume by turning the knob left/right
⑦ 1 ~ 6 (Preset)	• Radio Mode : Saves frequencies (channels) or receives saved frequencies (channels) • CD, USB, iPod®, My Music mode - 1 : Repeat - 2 : Random

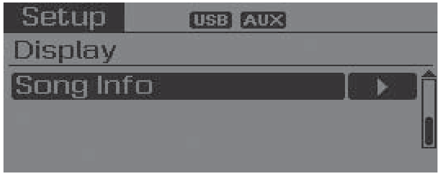
SETUP (for RDS model)

Display Settings

Press the SETUP key ▶ Select [Display]



Setup USB AUX
Display
Return
Mode Pop up On
Scroll text On



Setup USB AUX
Display
Song Info

Mode Pop up

[Mode Pop up] ▶ Changes On. selection mode

- During On state, press the RADIO or MEDIA key to display the mode change pop up screen.

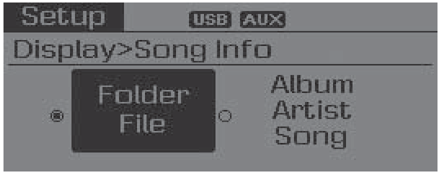
Scroll text

[Scroll text] ▶ Set On / Off

- On : Maintains scroll
- Off : Scrolls only one (1) time.

Song Info

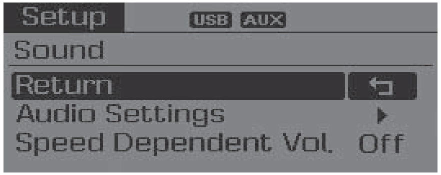
When playing an MP3 file, select the desired display info from 'Folder/File' or 'Album/Artist/Song'.



Setup USB AUX
Display>Song Info
◉ Folder File
○ Album Artist Song

Sound Settings

Press the SETUP key ▶ Select [Sound]



Setup USB AUX
Sound
Return
Audio Settings
Speed Dependent Vol. Off

Audio Settings

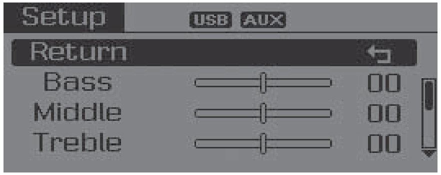
This menu allows you to set the 'Bass, Middle, Treble' and the Sound Fader and Balance.

Select [Audio Settings] ▶ Select menu through ◉ TUNE knob ▶

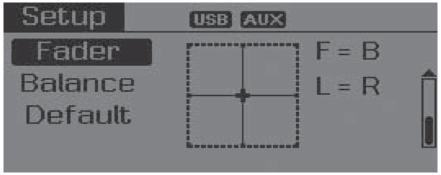
Turn ◉ TUNE knob left/right to set

- Bass, Middle, Treble : Selects the sound tone.
- Fader, Balance : Moves the sound fader and balance.
- Default : Restores default settings.

Return : While adjusting values, re-pressing the ◉ TUNE knob will restore the parent menu.


Setup
USB
AUX
Return

Bass 00
Middle 00
Treble 00

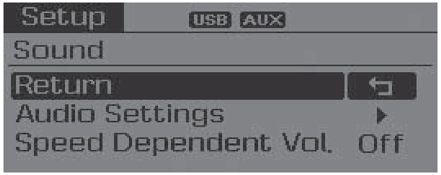

Setup
USB
AUX
Fader
Balance
Default

F = B
L = R

Speed Dependent Volume Control

This feature is used to automatically control the volume level according to the speed of the vehicle.

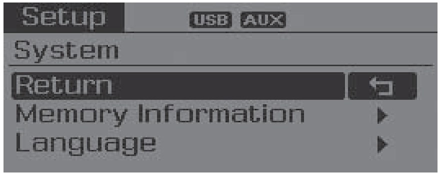
Select [Speed Dependent Vol.] ▶ Turn SDVC On/Off by pressing the ◉ TUNE knob


Setup
USB
AUX
Sound
Return
Audio Settings

Speed Dependent Vol. Off

System Settings

Press the SETUP key ▶ Select [System]

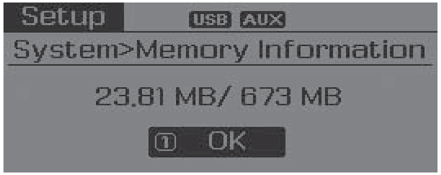

Setup
USB AUX
System
Return
Memory Information
Language

Memory Information (if equipped)

Displays currently used memory and total system memory.

Select [Memory Information] ▶ OK

The currently used memory is displayed on the left side while the total system memory is displayed on the right side.

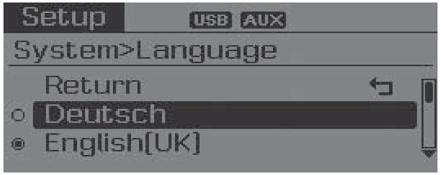

Setup
USB AUX
System>Memory Information
23.81 MB/ 673 MB
OK

May differ depending on the selected audio.

Language

This menu is used to set the display and voice recognition language.

Select [Language] ▶ Set through ◉ TUNE knob


Setup
USB AUX
System>Language
Return
○ Deutsch
● English(UK)

The system will reboot after the language is changed.

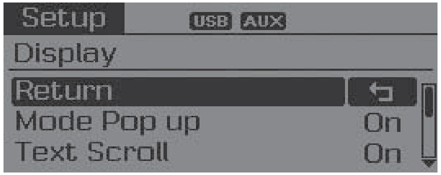
Language support by region

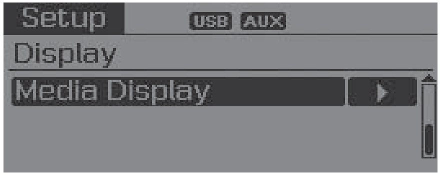
- Deutsch, English(UK), Français, Italiano, Español, Nederlands, Svenska, Dansk, Русский, Polski, Türkçe

SETUP

Display Settings

Press the SETUP key ▶ Select [Display]


Setup
USB AUX
Display
Return
Mode Pop up On
Text Scroll On


Setup
USB AUX
Display
Media Display

Mode Pop up

[Mode Pop up] ▶ Changes On / Off selection mode

- During On state, press the RADIO or MEDIA key to display the mode change pop up screen.

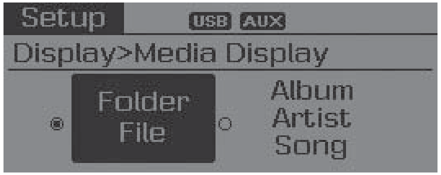
Text Scroll

[Text Scroll] ▶ Set On / Off

- On : Maintains scroll
- Off : Scrolls only one (1) time.

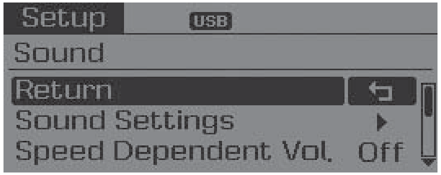
Media Display

When playing an MP3 file, select the desired display info from 'Folder/File' or 'Album/Artist/Song'.


Setup
USB AUX
Display>Media Display
● Folder File
○ Album Artist Song

Sound Settings

Press the SETUP key ▶ Select [Sound]


Setup
USB
Sound
Return
Sound Settings
Speed Dependent Vol. Off

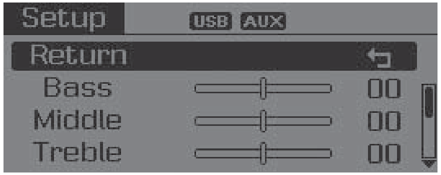
Sound Settings

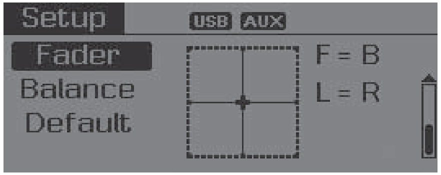
This menu allows you to set the Bass, Middle, Treble' and the Sound Fader and Balance.

Select [Sound Settings] ▶ Select menu through ● TUNE knob ▶ Turn ● TUNE knob left/right to set

- Bass, Middle, Treble : Selects the sound tone.
- Fader, Balance : Moves the sound fader and balance.
- Default : Restores default settings.

Back : While adjusting values, pressing the ● TUNE knob will restore the parent menu.


Setup
Return
Bass 00
Middle 00
Treble 00


Setup
Fader
Balance
Default
F = B
L = R

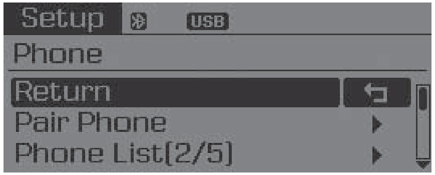
Speed Dependent Volume Control

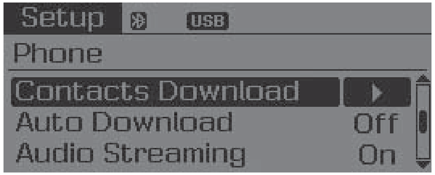
This feature is used to automatically control the volume level according to the speed of the vehicle.

Select Speed Dependent Vol. ▶ Turn SDVC On/Off by pressing the ● Tune knob.

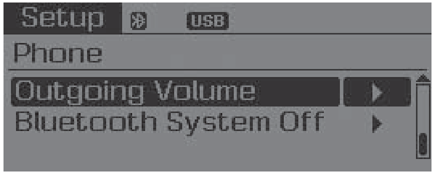
Phone Setup (for Bluetooth® Wireless Technology equipped model)

Press the SETUP key ▶ Select [Phone]


Setup
USB
Phone
Return
Pair Phone
Phone List(2/5)


Setup
USB
Phone
Contacts Download

Auto Download Off
Audio Streaming On


Setup
USB
Phone
Outgoing Volume
Bluetooth System Off

Pair Phone

⚠ CAUTION

To pair a Bluetooth® Wireless Technology enabled mobile phone, authentication and connection processes are first required. As a result, you cannot pair your mobile phone while driving the vehicle. First park your vehicle before use.

Select [Pair Phone] ▶ Set through TUNE knob

Search for device names as displayed on your mobile phone and connect.

Input the passkey displayed on the screen. (Passkey : 0000)

The device name and passkey will be displayed on the screen for up to 3 minutes. If pairing is not completed within the 3 minutes, the mobile phone pairing process will automatically be canceled.

Pairing completion is displayed.

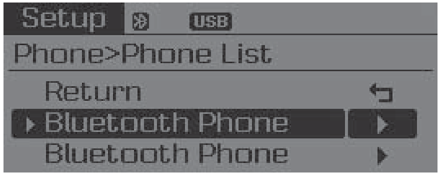
In some mobile phones, pairing will automatically be followed by connection.

It is possible to pair up to five *Bluetooth®* Wireless Technology enabled mobile phones.

Phone List

The names of up to 5 paired phones will be displayed.

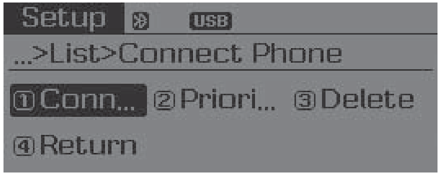
A ▶] is displayed in front of the currently connected phone.


Setup
USB
Phone>Phone List
Return
▶ Bluetooth Phone ▶
Bluetooth Phone ▶

Select the desired name to setup the selected phone.

• Connecting a phone

Select [Phone List]▶Select mobile phone through ◉ TUNE knob▶Select [Connect Phone]


Setup
USB
...>List>Connect Phone
① Conn...
② Priori...
③ Delete
④ Return

Select a mobile phone that is not currently connected.

Connect the selected mobile phone.

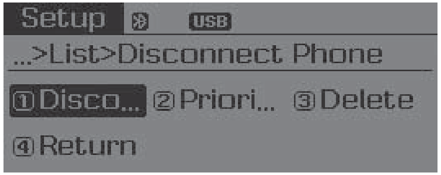
Connection completion is displayed.

If a phone is already connected, disconnect the currently connected phone and select a new phone to connect.

• Disconnecting a connected phone

Select [Phone List]▶Select mobile phone through ◉ TUNE knob▶Select [Disconnect Phone]

Select the currently connected mobile phone.


Setup
USB
...>List>Disconnect Phone
① Disco...
② Priori...
③ Delete
④ Return

Disconnect the selected mobile phone.

Disconnection completion is displayed.

• Changing connection sequence (Priority)

This is used to change the order (priority) of automatic connection for the paired mobile phones.

Select [Phone List]▶Select [Priority] through ◉ TUNE knob▶Select No.1 Priority mobile phone

Select [Priority].

From the paired phones, select the phone desired for No.1 priority.

The changed priority sequence is displayed.

Once the connection sequence (priority) is changed, the new no.1 priority mobile phone will be connected.

- when the no.1 priority cannot be connected: Automatically attempts to connect the most recently connected phone.
- Cases when the most recently connected phone cannot be connected: Attempts to connect in the order in which paired phones are listed.

- Delete

Select [Phone List] ▶ Select mobile phone through ◉ TUNE knob ▶ Select [Delete]

Select the desired mobile phone.

Delete the selected mobile phone.

Deletion completion is displayed.

When attempting to delete a currently connected phone, the phone is first disconnected.

CAUTION

- *When you delete a mobile phone, the mobile phone contacts will also be erased.*
- *For stable Bluetooth® Wireless Technology communication, delete the mobile phone from the audio and also delete the audio from your mobile phone.*

Contacts Download

This feature is used to download contacts and call histories into the audio system.

Select [Contacts Download] ▶ Select through ◉ TUNE knob

CAUTION

- *The download feature may not be supported in some mobile phones.*
- *If a different operation is performed while Contacts are being downloaded, downloading will be discontinued. Contacts already downloaded will be saved.*
- *When downloading new Contacts, delete all previously saved Contacts before starting download.*

Auto Download

When connecting a mobile phone, it is possible to automatically download new Contacts and Call Histories.

Select [Auto Download] ▶ Set On / Off through ◉ TUNE knob

Audio Streaming

Songs (files) saved in your *Bluetooth®* Wireless Technology enabled mobile phone can be played through the audio system.

Select [Audio Streaming] ▶ Set On / Off through ◉ TUNE knob

CAUTION

The Bluetooth® Wireless Technology audio streaming feature may not be supported in some mobile phones.

Outgoing Volume

This is used to set the volume of your voice as heard by the other party while on a *Bluetooth®* Wireless Technology enabled handsfree call.

Select [Outgoing Volume] ▶ Set volume through ◉ TUNE knob

Even while on a call, the volume can be changed by using the ∨ SEEK TRACK ∧ key.

Bluetooth® Wireless Technology System Off

This feature is used when you do not wish to use the *Bluetooth®* Wireless Technology system.

Select [Bluetooth System Off] ▶ Set through ◎ TUNE knob

If a phone is already connected, disconnect the currently connected phone and turn the *Bluetooth®* Wireless Technology system off.

Using the *Bluetooth®* Wireless Technology System

To use *Bluetooth®* Wireless Technology when the system is currently off, follow these next steps.

- Turning On *Bluetooth®* Wireless Technology through the PHONE Key

Press the PHONE key ▶ Screen Guidance

Moves to the screen where *Bluetooth®* Wireless Technology functions can be used and displays guidance.

- Turning On *Bluetooth®* Wireless Technology through the SETUP key

Press the SETUP key ▶ Select [Phone]

A screen asking whether to turn on *Bluetooth®* Wireless Technology will be displayed.

On the screen, select YES to turn on *Bluetooth®* Wireless Technology and display guidance.

If the *Bluetooth®* Wireless Technology system is turned on, the system will automatically try to connect the most recently connected *Bluetooth®* Wireless Technology mobile phone.

⚠ CAUTION

- *Bluetooth® Wireless Technology connection may become intermittently disconnected in some mobile phones. Follow these next steps to try again.*

1) Turn the Bluetooth® Wireless Technology function within the mobile phone ON/OFF and try to connect again.

2) Turn the mobile phone power ON/OFF and try to connect again.

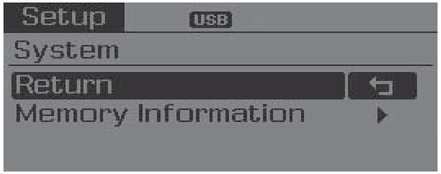
3) Completely remove the mobile phone battery, reboot, and then try to connect again.

4) Reboot the audio system and try to connect again

5) Delete all paired devices in your mobile phone and the audio system and pair again for use.

System Settings

Press the SETUP key ▶ Select [System]


Setup
USB
System
Return
Memory Information

Memory Information

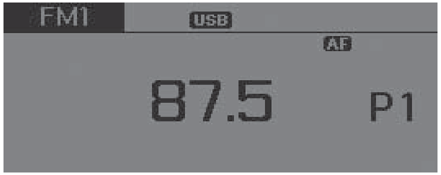
Displays currently used memory and total system memory.

Select [Memory Information] ▶ OK

The currently used memory is displayed on the left side while the total system memory is displayed on the right side.

RADIO (FOR RDS MODEL) : FM, AM

Changing RADIO mode



SEEK

Press the SEEK TRACK key

- Shortly pressing the key (under 0.8 seconds): Changes the frequency.
- Pressing and holding the key (over 0.8 seconds): Automatically searches for the next frequency.

Preset SEEK

Press the 1 ~ 6 key

- Shortly pressing the key (under 0.8 seconds): Plays the frequency saved in the corresponding key.
- Pressing and holding the key (over 0.8 seconds): Pressing and holding the desired key from 1 ~ 6 will save the currently playing broadcast to the selected key and sound a BEEP.

SCAN

Press the TA key

- Pressing and holding the key : The broadcast frequency increases and previews each broadcast for 5 seconds each. After scanning all frequencies, returns and plays the current broadcast frequency.

Selecting through manual search

Turn the ◎ TUNE knob left/right to adjust the frequency.

- AC101C1GG
  - FM : Changes by 100KHz
  - AM : Changes by 9KHz

Traffic Announcement (TA)

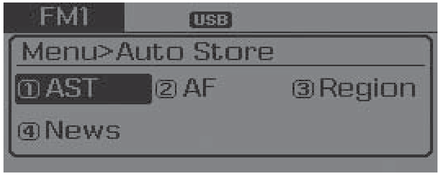
Shortly pressing the TA key (under 0.8 seconds): Set On/Off TA Traffic Announcement) mode.

MENU

Within MENU key are the AST (Auto Store) and Info functions.

AST (Auto Store)

Press the MENU key ▶ Set [①AST] through TUNE knob or 1 RPT key.



Select AST (Auto Store) to save frequencies with superior reception to presets 1 ~ 6 . If no frequencies are received, then the most recently received frequency will be broadcast.

Saves only to the Preset memory 1 ~ 6 of FMA or AMA mode.

AF (Alternative Frequency)

Press the MENU key ▶ Set [②AF] through TUNE knob or 2 RDM key.

The Alternative Frequency option can be turned On/Off.

Region

Press the MENU key ▶ Set [③Region] through TUNE knob or 3 key.

The Region option can be turned On/Off.

News

Press the MENU key ▶ Set [④News] through TUNE knob or 4 key.

The News option can be turned On/Off.

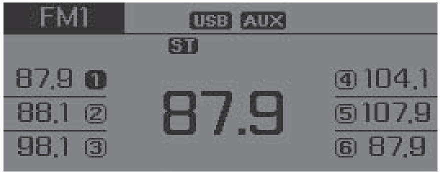
Info Volume

Info Volume refers to the sound volume upon receiving News or Traffic information.

The info volume can be controlled by turning the VOL knob left/right while a news or traffic broadcast is playing.

AF, Region, and News are RDS Radio menus.

RADIO : FM , AM



SEEK

Press the SEEK TRACK key

- Shortly pressing the key : Changes the frequency.
- Pressing and holding the key : Automatically searches for the next frequency.

Preset SEEK

Press the 1 ~ 6 key

- Shortly pressing the key : Plays the frequency saved in the corresponding key.
- Pressing and holding the key : Pressing and holding the desired key from 1 ~ 6 will save the currently playing broadcast to the selected key and sound a BEEP.

SCAN

Press the SCAN key

- Shortly pressing the key : The broadcast frequency increases and previews each broadcast for 5 seconds each. After scanning all frequencies, returns and plays the current broadcast frequency.
- Pressing and holding the key : Previews the broadcasts saved in Preset 1 ~ 6 for 5 seconds each.

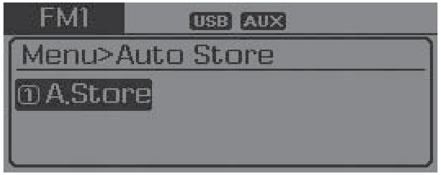
Selecting through manual search

Turn the TUNE knob left/right to adjust the frequency.

- AC100C1GG, AC100C1MG, AC111C1MG
  - FM : Changes by 100KHz
  - AM : Changes by 9KHz
- AC100C1GN
  - FM : Changes by 200KHz
  - AM : Changes by 10KHz
- AC100C1GE
  - FM : Changes by 50KHz
  - AM : Changes by 9KHz
- AC100C1GC
  - FM : Changes by 100KHz
  - AM : Changes by 10KHz

Menu

Press the MENU key ▶Select ① Auto Store] through the ◎ TUNE knob or 1 key


FM1
USB AUX
Menu>Auto Store
① A.Store

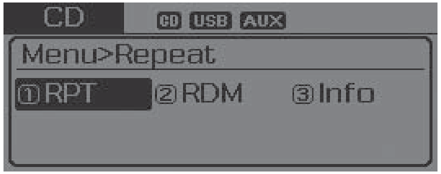
① A.Store

Press the MENU key▶Set [A.Store] through ◎ TUNE knob or 1 key

Saves broadcasts with superior reception to 1 ~ 6 keys. If no frequencies are received, then the most recently received frequency will be broadcast.

MENU : Audio CD

In CD mode, press MENU key.


CD
CD USB AUX
Menu>Repeat
① RPT
② RDM
③ Info

Repeat

Set ①RPT] through the ◎ TUNE knob or 1 RPT key to repeat the current song.

Press RPT again to turn off.

Random

Set ②RDM] through the ◎ TUNE knob or 2 RDM key to randomly play songs within the current folder.

Press RDM again to turn off.

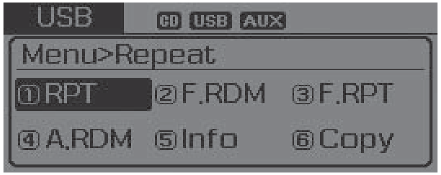
Information

Set ③Info] through the ◎ TUNE knob or 3 key to display information of the current song.

Press the MENU key to turn off info display.

MENU : MP3 CD / USB

In MP3 CD / USB mode, press MENU key.


USB
CD USB AUX
Menu>Repeat
① RPT
② F.RDM
③ F.RPT
④ A.RDM
⑤ Info
⑥ Copy

Repeat

Set ①RPT] through the ◎ TUNE knob or 1 RPT key to repeat the current song.

Press RPT again to turn off.

Folder Random

Set ②F.RDM] through the ◎ TUNE knob or 2 RDM key to randomly play songs within the current folder.

Press F.RDM again to turn off.

Folder Repeat

Set ③F.RPT] through the ◎ TUNE knob or 3 key to repeat songs within the current folder.

Press F.RPT again to turn off.

All Random

Set ④A.RDM] through the ◎ TUNE knob or 4 key to randomly play all songs within the CD.

Press A.RDM again to turn off.

Information

Set ⑤Info] through the ◎ TUNE knob or 5 key to display information of the current song.

Press the MENU key to turn off info display.

Copy

Set ⑥Copy] through the ◎ TUNE knob or 6 key.

This is used to copy the current song into My Music. You can play the copied Music in My Music mode.

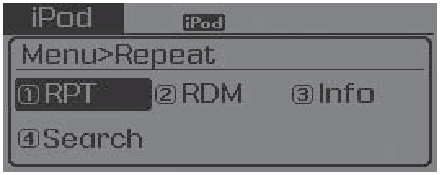
If another key is pressed while copying is in progress, a pop up asking you whether to cancel copying is displayed.

If another media is connected or inserted (USB, CD, iPod®, AUX) while copying is in progress, copying is canceled.

Music will not be played while copying is in progress.

MENU : iPod®

In iPod mode, press MENU key.



Repeat

Set ①RPT] through the ◎ TUNE knob or 1 RPT key to repeat the current song.

Press RPT again to turn repeat off.

Random

Set ②RDM] through the ◎ TUNE knob or 2 RDM key.

Plays all songs within the currently playing category in random order.

Press RDM again to turn off.

Information

Set ③Info] through the ◎ TUNE knob or 3 key.

Displays information of the current song.

Press the MENU key to turn off info display.

Search

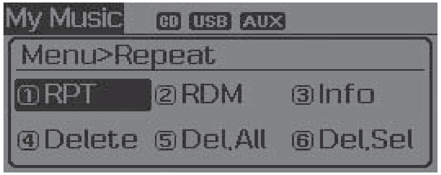
Set ④Search] through the ◎ TUNE knob or 4 key.

Displays iPod® category list.

Searching iPod® category is MENU key pressed, move to parent category.

MENU : My Music Mode

In My Music mode, press MENU key.


My Music
CD USB AUX
Menu>Repeat
①RPT
②RDM
③Info
④Delete
⑤Del.All
⑥Del.Sel

Repeat

Set ①RPT] through the ◎ TUNE knob or 1 RPT key.

Repeats the currently playing song.

Press RPT again to turn repeat off.

Random

Set ②RDM] through the ◎ TUNE knob or 2 RDM key.

Plays all songs within the currently playing folder in random order.

Press RDM again to turn random off.

Information

Set ③Info] through the ◎ TUNE knob or 3 key.

Displays information of the current song.

Press the MENU key to turn off info display.

Delete

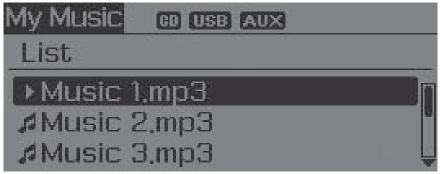
Set ④Delete] through the ◎ TUNE knob or 4 key.

- Deletes currently playing file

In the play screen, pressing delete will delete the currently playing song.

- Deletes file from list

Select the file you wish to delete by using the ◎ TUNE knob.


My Music
CD USB AUX
List
Music 1.mp3
Music 2.mp3
Music 3.mp3

Press the MENU key and select the delete menu to delete the selected file.

Delete All

Set [⑤DelAll] through the ◉ TUNE knob or **5** key.

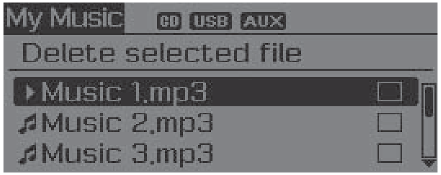
Deletes all songs of My Music.

Delete Selection

Press the **MENU** key▶Set [⑥DelSel] through the ◉ TUNE knob or **6** key.

Songs within My Music are selected and deleted.

Select the songs you wish to delete from the list.

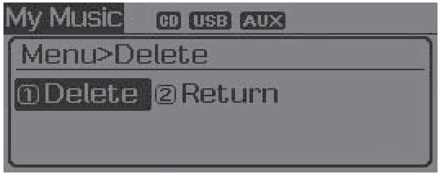


My Music

Delete selected file

- Music 1.mp3 ☐
- Music 2.mp3 ☐
- Music 3.mp3 ☐

After selecting, press the **MENU** key and select the delete menu.



My Music

Menu>Delete

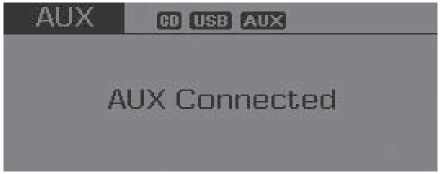
①Delete ②Return

AUX

AUX is used to play external MEDIA currently connected with the AUX terminal.

AUX mode will automatically start when an external device is connected to the AUX terminal.

If an external device is connected, you can also press the **MEDIA** key to change to AUX mode.



AUX

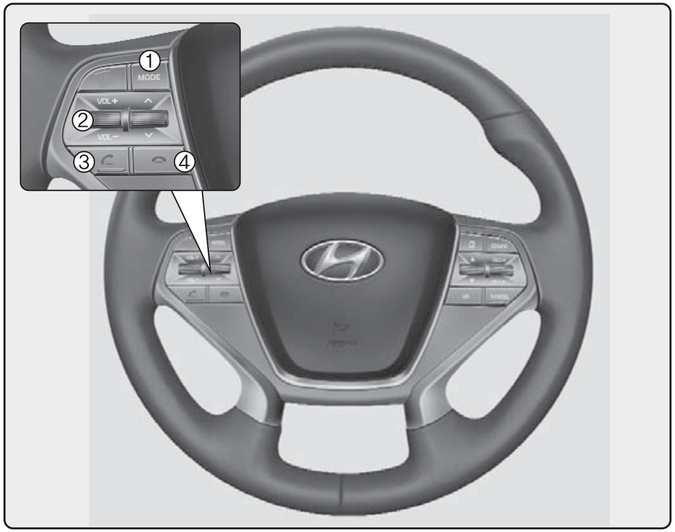
AUX Connected

AUX mode cannot be started unless there is an external device connected to the AUX terminal.

NOTICE - USING THE AUX

- Fully insert the AUX cable into the AUX terminal for use.

Making a call using the Steering wheel remote controller

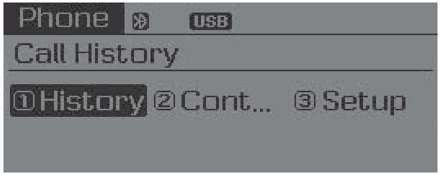


The actual feature in the vehicle may differ from the illustration.

	Name	Description
①	MODE	• Each time this key is pressed, the mode is changed in order of FM1 FM2 FMA AM AMA CD USB or iPod AUX My Music BT Audio • If the media is not connected or a disc is not inserted, corresponding modes will be disabled.
②	VOL+ VOL-	Raises or lowers speaker volume.
③	☎ key	Places and transfers calls.
④	☎ key	Ends calls or cancels functions. • Check call history and making call Shortly press (under 0.8 seconds) the ☎ key on the steering remote controller. The call history list will be displayed on the screen. Press the ☎ key again to connect a call to the selected number. • Redialing the most recently called number Press and hold (over 0.8 seconds) the ☎ key on the steering remote controller. The most recently called number is redialed.

Phone MENU

Press the PHONE key to display three menus (Call History, Contacts, Phone Setup).



Call history

Press the PHONE key ▶ Set [1 History] through the TUNE knob or 1 RPT key.

The call history is displayed and can be used to select a number and make a call.

If call history does not exist, a screen asking whether to download call history is displayed. (The download feature may not be supported in some mobile phones)

Contacts

Press the PHONE key ▶ Set [2 Contacts] through the TUNE knob or 2 RDM key.

The Contacts are displayed and can be used to select a number and make a call.

If more than one number is saved to one contact, then a screen showing the mobile phone number, Home and office number is displayed. Select the desired number to make the call.

If Contacts do not exist, a screen asking whether to download Contacts is displayed. (The download feature may not be supported in some mobile phones)

Phone Setup

Press the PHONE key ▶ Set [3 Setup] through the TUNE knob or 3 key.

The *Bluetooth*® Wireless Technology mobile phone setup screen is displayed. For more information, refer to "Phone Setup".

NOTICE - USING THE *Bluetooth®* Wireless Technology CELLULAR PHONE

- Do not use a cellular phone or perform Bluetooth® Wireless Technology settings (e.g. pairing a phone) while driving.
- Some Bluetooth® Wireless Technology -enabled phones may not be recognized by the system or fully compatible with the system.
- Before using Bluetooth® Wireless Technology related features of the audio system, refer your phone's User's Manual for phone-side Bluetooth® Wireless Technology operations.
- The phone must be paired to the audio system to use Bluetooth® Wireless Technology related features.
- You will not be able to use the hands-free feature when your phone (in the car) is outside of the cellular service area (e.g. in a tunnel, in a underground, in a mountainous area, etc.).

(Continued)

(Continued)

- If the cellular phone signal is poor or the vehicles interior noise is too loud, it may be difficult to hear the other person's voice during a call.
- Do not place the phone near or inside metallic objects, otherwise communications with Bluetooth® Wireless Technology system or cellular service stations can be disturbed.
- While a phone is connected through Bluetooth® Wireless Technology your phone may discharge quicker than usual for additional Bluetooth® Wireless Technology-related operations.
- Some cellular phones or other devices may cause interference noise or malfunction to audio system. In this case, store the device in a different location may resolve the condition.
- Phone contact names should be saved in English or they may not be displayed correctly.

(Continued)

(Continued)

- If Priority is set upon vehicle ignition (IGN/ACC ON), the Bluetooth® Wireless Technology phone will be automatically connected.

  Even if you are outside, the Bluetooth® Wireless Technology phone will be automatically connected once you are in the vicinity of the vehicle.

  If you do not want automatic Bluetooth® Wireless Technology connection, turn the Bluetooth® Wireless Technology feature off.
- The hands-free call volume and quality may differ depending on the mobile phone type.
- Bluetooth® Wireless Technology features can be used only when the mobile phone has been paired and connected with the device. For more information on pairing and connecting Bluetooth® Wireless Technology enabled mobile phones, refer to the "Phone Setup" section.

(Continued)

(Continued)

- When a Bluetooth® Wireless Technology mobile phone is connected, a (ᛒ) icon will appear at the top of the screen. If a (ᛒ) icon is not displayed, this indicates that a Bluetooth® Wireless Technology enabled device has not been connected. You must connect the device before use. For more information on Bluetooth® Wireless Technology mobile phones, refer to the "Phone Setup" section.
- Pairing and connecting a Bluetooth® Wireless Technology enabled mobile phone will work only when the Bluetooth® Wireless Technology option within your mobile phone has been turned on. (Methods of turning on the Bluetooth® Wireless Technology enabled feature may differ depending on the mobile phone.)

(Continued)

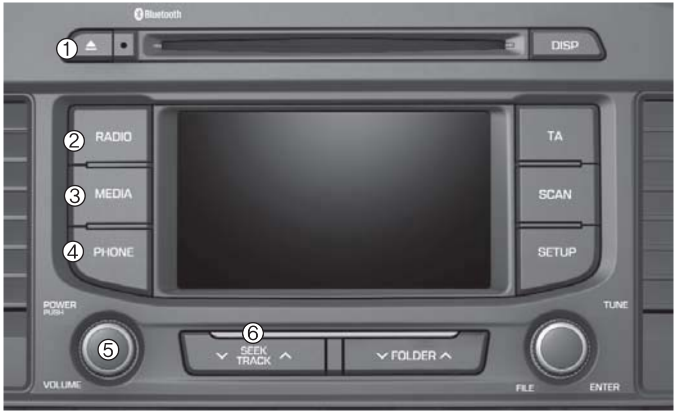
(Continued)

- In some mobile phones, starting the ignition while talking through Bluetooth® Wireless Technology enabled handsfree call will result in the call becoming disconnected. (Switch the call back to your mobile phone when starting the ignition.)
- Some features may not be supported in some Bluetooth® Wireless Technology mobile phone and devices.
- Bluetooth® Wireless Technology enabled operation may be unstable depending on the communication state.
- Placing the audio system within an electromagnetic environment may result in noise interference.

SYSTEM CONTROLLERS AND FUNCTIONS

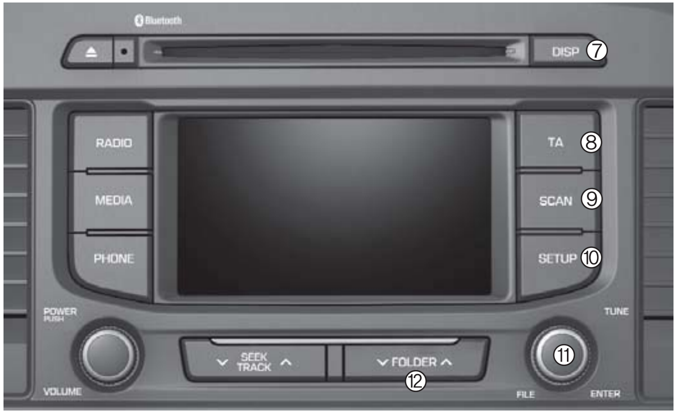
Display and settings may differ depending on the selected audio

Audio Head Unit (For RDS model)



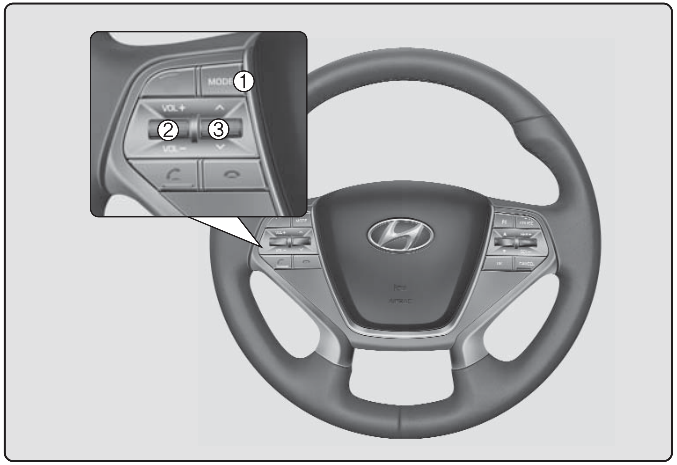
Name	Description
① ⏏	Ejects the disc.
② RADIO	• Convert to Radio mode. • Each time the key is pressed, the mode is changed in order of FM1, FM2, FMA, AM, AMA

Name	Description
③ MEDIA	• Each time the key is pressed, the mode is changed in order of CD, USB, iPod®, AUX, My Music, BT Audio modes.
④ PHONE	(for *Bluetooth*® Wireless Technology equipped model) • Converts to Phone mode When a phone is not connected, the connection screen is displayed.
⑤ ◉ POWER/VOL knob	• ◉ Power : Turns power On/Off by pressing the knob • ◉ Volume : Sets volume by turning the knob left/right
⑥ ∨ SEEK TRACK ∧	• When pressed shortly - Radio mode : plays previous/next frequency. - Media (CD/USB/iPod®/My Music) modes : changes the track, Song (file) • When pressed and held - Radio mode : continuously changes the frequency. Upon release, plays the current frequency. - Media (CD/USB/iPod®/My Music) modes : rewinds or fast forwards the track or file - During a Handsfree call, controls the call volume.



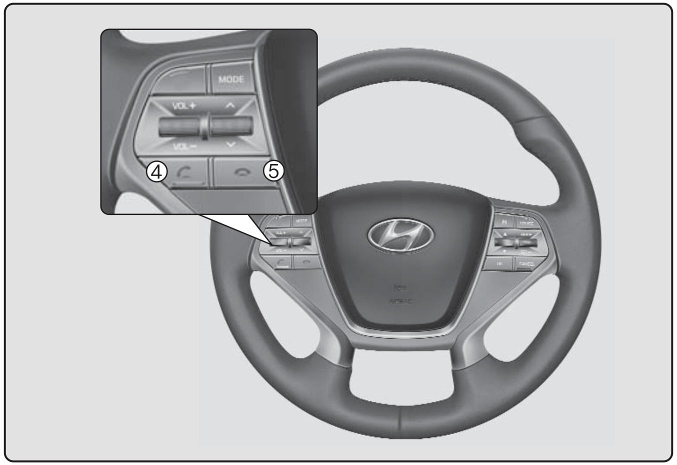
Name	Description
⑦ DISP	• Each time the button is shortly pressed, it sets the screen Off Screen On Screen Off Audio operation is maintained and only the screen will be turned Off. In the screen Off state, press any key to turn the screen On again.
⑧ TA	Set TA (Traffic Announcement) feature On/Off.
⑨ SCAN	• Radio Mode - Shortly press the key : Previews each broadcast for 5 seconds each - Press and hold the key : Previews the broadcasts saved in Preset for 5 seconds each. Press the SCAN key again to continue listening to the current frequency. • CD, USB mode - Shortly press the key : Previews each song (file) for 10 seconds each Press the SCAN key again to continue listening to the current song (file).
⑩ SETUP	Converts to Setup mode.
⑪ ● TUNE knob	• Radio mode : turn to change broadcast frequencies. • Media (CD/USB/iPod® /My Music) modes : turn to search tracks/channels/files.
⑫ ∨FOLDER∧	• MP3, CD, USB mode : Folder Search May differ depending on the selected audio

Steering-wheel mounted controls



The actual feature in the vehicle may differ from the illustration.

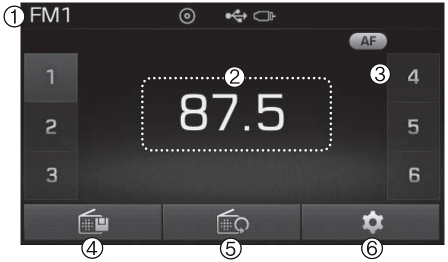
	Name	Description
①	MODE	• Each time this key is pressed, the mode is changed in order of FM1 FM2 FMA AM AMA CD USB or iPod® AUX My Music BT Audio. • If the media is not connected or a disc is not inserted, corresponding modes will be disabled.
②	VOL+ , VOL-	Used to control volume.
③	∧ , ∨	Mute the microphone during a call. • When pressed shortly (under 0.8 seconds) - Radio mode : searches broadcast frequencies saved to presets. - Media (CD /USB / iPod® /My Music /BT Audio) modes : changes the track, file or chapter. • When pressed and held (over 0.8 seconds) - Radio mode, automatically searches broadcast frequencies and channels - Media (CD /USB / iPod® /My Music) modes, rewinds or fast forwards the track or song (file) - BT Audio mode may not be supported in some mobile phones.

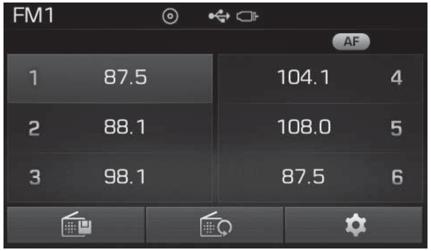


Name	Description
④ ☎	• When pressed shortly - When pressed in the phone screen, displays call history screen - When pressed in the dial screen, makes a call - When pressed in the incoming call screen, answers the call - When pressed during call waiting, switches to waiting call (Call Waiting) • When pressed and held (over 0.8 seconds) - When pressed in the Bluetooth® Wireless Technology Handsfree wait mode, redials the last call - When pressed during a Bluetooth® Wireless Technology Handsfree call, switches call back to mobile phone (Private) - When pressed while calling on the mobile phone, switches call back to Bluetooth® Wireless Technology Handsfree (Operates only when Bluetooth® Wireless Technology Handsfree is connected)
⑤ ☎	Ends phone call

RADIO MODE (FOR RDS MODEL)

Basic Mode Screen


①
FM1
AF
②
87.5
③
1
2
3
4
5
6
④
⑤
⑥


FM1
AF
1
87.5
2
88.1
3
98.1
104.1
4
108.0
5
87.5
6

1. Mode Display

Displays currently operating mode

2. Frequency

Displays the current frequency

3. Preset

Displays current preset number 1 ~ 6

4. Preset Display

Displays preset buttons

5. Autostore

Automatically saves frequencies with superior reception to Preset buttons

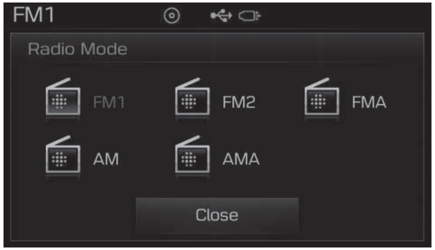
6. RDS Info

Displays RDS broadcast information

Switching to Radio Mode

Pressing the RADIO key will change the operating mode in order of FM1 FM2 FMA AM AMA

If [Pop up Mode] is turned on within SETUP ▶ [Display], then pressing the RADIO key will display the Radio Pop-up Mode screen.


FM1
Radio Mode
FM1
FM2
FMA
AM
AMA
Close

Turn the TUNE knob to move the focus. Press the knob to select.

Searching Radio Frequencies

Using Seek

Press the SEEK/TRACK key to play the previous/next frequency.

Using TUNE

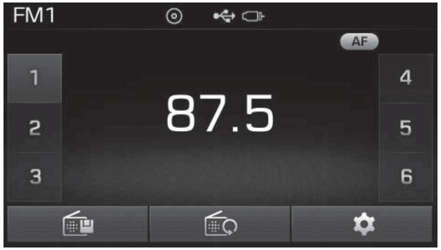
Turn the ◉ TUNE knob to select the desired frequency.

- FM : Increases/decreased by 100kHz
- AM : Increases/decreased by 9kHz

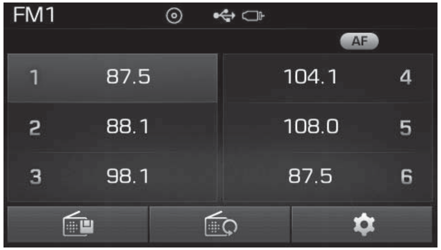
Using Radio Mode

Selecting/Saving Presets

Press the 1 ~ 6 buttons to play the desired preset.


FM1
AF
1
2
3
87.5
4
5
6

Press the button to display the broadcast information for the frequency saved to each button.


FM1
AF

1	87.5	104.1	4
2	88.1	108.0	5
3	98.1	87.5	6

NOTICE

While listening to a frequency you want to save as a preset, press and hold one of the [1] ~ [6] preset buttons (over 0.8 seconds) to save the current frequency to the selected preset.

Auto Store

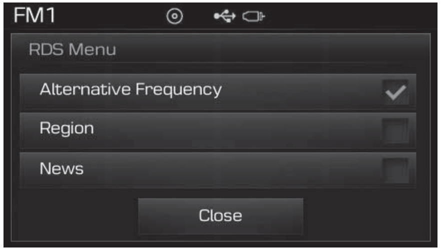
Press the button to automatically save receivable frequencies to Preset buttons.

NOTICE

While Auto Store is operating, pressing the [Cancel] button again will cancel Auto Store and restore the previous frequency.

RDS Menu

Press the ⚙ button to set the AF (Alternative Frequency), Region and News features.


FM1
RDS Menu
Alternative Frequency ☑
Region ☐
News ☐
Close

NOTICE

The RDS Menu is not supported within AM or AM A mode.

Scan

Press the SCAN key to preview frequencies with superior reception for 5 seconds each.

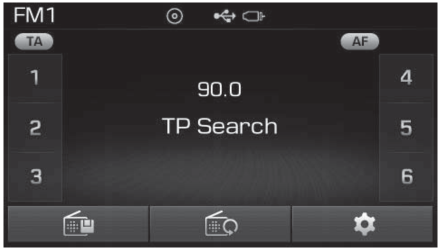
Press and hold the SCAN key (over 0.8 seconds) to preview presets for 5 seconds each.

NOTICE

Once scan is complete, the previous frequency will be restored.
While Scan is operating, pressing and holding the SCAN key (over 0.8 seconds) will cancel the scan operation.

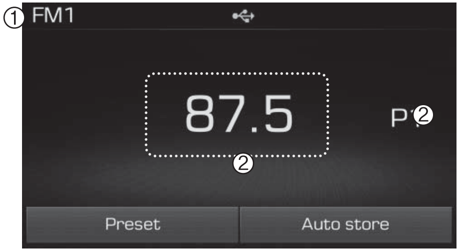
TA (Traffic Announcement)

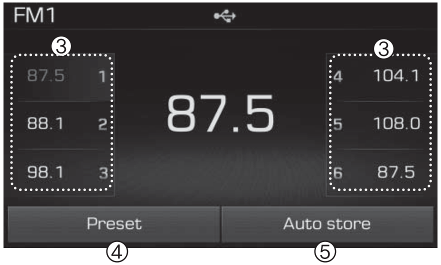
Press the TA key to turn the TA (Traffic Announcement) feature On/Off.


FM1
TA
AF
1
2
3
4
5
6
90.0
TP Search

RADIO MODE

Basic Mode Screen


①
FM1
87.5
P
②
②
Preset
Auto store


FM1
③
87.5 1
88.1 2
98.1 3
87.5
③
4 104.1
5 108.0
6 87.5
Preset
Auto store
④
⑤

1. Mode Display
Displays currently operating mode.

2. Frequency
Displays the current frequency.

3. Preset
Displays current preset number P1 ~ P6 .

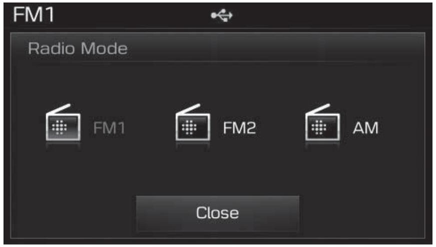
4. Preset Display
Displays preset buttons.

5. Auto store
Automatically saves frequencies with superior reception to Preset buttons.

Switching to Radio Mode

Pressing the RADIO key will change the operating mode in order of FM1 FM2 AM

If [Mode Pop up] is turned on within SETUP ▶ [Display], then pressing the RADIO key will display the Radio Pop-up Mode screen.


FM1
Radio Mode
FM1
FM2
AM
Close

Turn the ◎ TUNE knob to move the focus. Press the knob to select.

Searching Radio Frequencies

Using Seek

Press the SEEK TRACK key to play the previous/next frequency.

Using TUNE

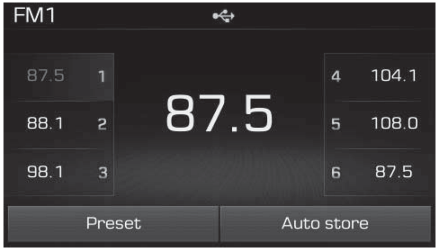
Turn the ◎ TUNE knob to select the desired frequency.

- FM : Increases/decreased by 200kHz
- AM : Increases/decreased by 10kHz

Using Radio Mode

Selecting Presets/Saving Presets

Press the Preset button to display the broadcast information for the frequency saved to each button.



Press the P1 ~ P6 buttons to play the desired preset.

NOTICE

While listening to a frequency you want to save as a preset, press and hold one of the P1 ~ P6 preset buttons (over 0.8 seconds) to save the current frequency to the selected preset.

Auto Store

Press the Auto store button to automatically save receivable frequencies to Preset buttons.

NOTICE

While Auto Store is operating, pressing the [Cancel] button again will cancel Auto Store and restore the previous frequency.

Scan

Press the SCAN key to preview frequencies

with superior reception for 5 seconds each.

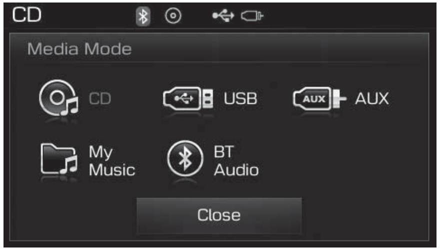
Press and hold the SCAN key (over 0.8 seconds) to preview presets for 5 seconds each.

Once scan is complete, the previous frequency will be restored.

While Scan is operating, pressing the SCAN key will cancel the scan operation.

MEDIA MODE

Pressing the **MEDIA** key will change the operating mode in order of CD USB(iPod®) AUX My Music BT Audio.



If [Mode Pop up] is turned on within **SETUP** ▶ [Display], then pressing the **MEDIA** key will display the Media Pop-up Mode screen.

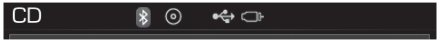
Turn the ◎ TUNE knob to move the focus. Press the knob to select.

NOTICE

The media mode pop up screen can be displayed only when there are two or more media modes turned on.

Title Icon

When a *Bluetooth®* Wireless Technology, iPod®, USB, or AUX device is connected or a CD is inserted, the corresponding mode icon will be displayed.



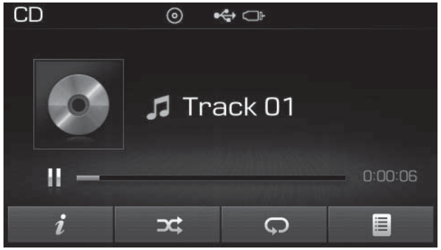
Icon	Title
ᛒ	*Bluetooth®* Wireless Technology
◎	CD
⇄	iPod®
⇄	USB
▭	AUX

AUDIO CD MODE

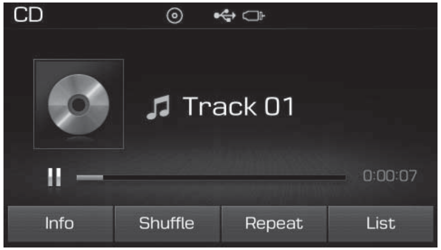
Using Audio CD Mode

Playing/Pausing CD Tracks

Once an audio CD is inserted, the mode will automatically start and begin playing.



<For RDS model>



While playing, press the ⏸ button to pause and press ▶ button to play.

NOTICE

- Only genuine audio CDs are supported. Other discs may result in recognition failure (e.g. copy CD-R, CDs with labels)
- The artist and title information are displayed on the screen if track information is included within the audio CD.

Changing Tracks

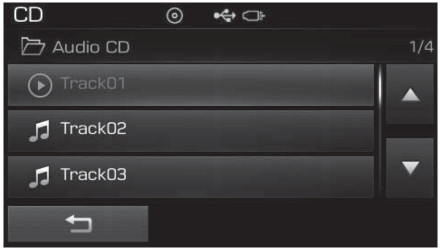
Press the ∨ SEEK TRACK ∧ key to move to the previous or next track.

NOTICE

- Pressing the ∨ SEEK TRACK key after the track has been playing for 2 seconds will start the current track from the beginning.
- Pressing the ∨ SEEK TRACK key before the track has been playing for 1 seconds will start the previous track.

Selecting from the List

Turn the TUNE knob left/right to search for the desired track.



Once you find the desired track, press the TUNE knob to start playing.

Rewinding /Fast-forwarding Tracks

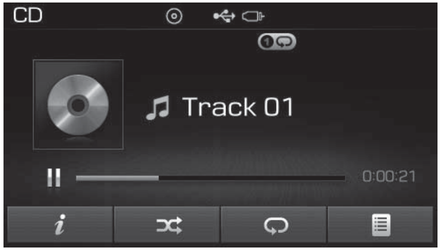
While playing, press and hold the SEEK TRACK key to rewind or fast-forward the current track.

Scan

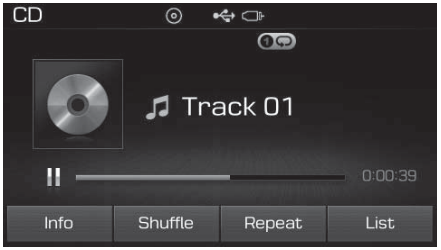
Press the SCAN key to play the first 10 seconds of each file.

Audio CD Mode Menu

Within this mode, you will have access to the Info, Random (Shuffle), Repeat and List features.



<For RDS model>



Info

Press the i (Info) button to display details about the current disc.

Random (Shuffle)

Press the ⤨ (Shuffle) button to play tracks in random (Shuffle) order.

Press the ⤨ (Shuffle) button again to turn the Random (Shuffle) feature off.

- Random (Shuffle): Plays all tracks in random (Shuffle) order.

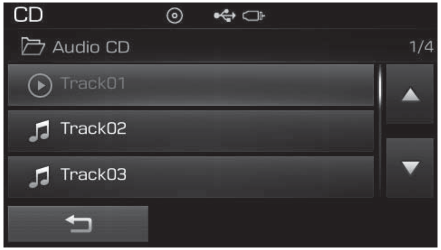
Repeat

Press the ⟲ (Repeat) button to repeat the current track. Press the button again to turn the repeat feature off.

- Repeat: Repeats the current track.

List

Press the ☰ (List) button to display the track list screen.


CD
Audio CD
1/4
Track01
Track02
Track03

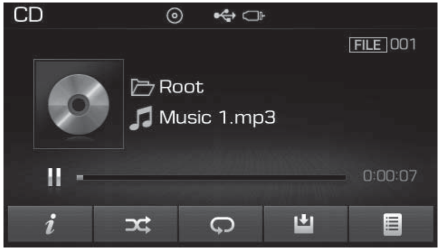
Turn the ◉ TUNE knob left/right to search for tracks. Once the desired track is displayed, press the knob to select and play.

MP3 CD MODE

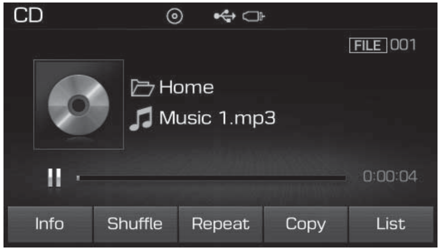
Using MP3 CD Mode

Playing/Pausing MP3 Files

Once an MP3 disc is inserted the mode will automatically start and being playing.


CD
FILE 001
Root
Music 1.mp3
0:00:07

<For RDS model>


CD
FILE 001
Home
Music 1.mp3
0:00:04
Info
Shuffle
Repeat
Copy
List

While playing, press the ⏸ button to pause and press ▶ button to play.

NOTICE

If there are numerous files 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.

Changing Files

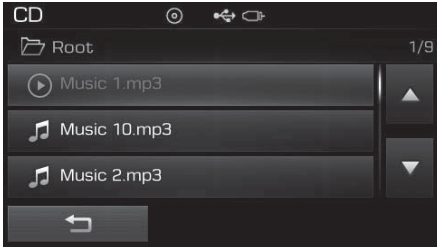
Press the ∨ SEEK TRACK ∧ key to move to the previous or next file.

NOTICE

- Pressing the ∨ SEEK TRACK key after the file has been playing for 2 seconds will start the current file from the beginning.
- Pressing the ∨ SEEK TRACK key before the file has been playing for 1 seconds will start the previous file.

Selecting from the List

Turn the ◎ TUNE knob left/right to search for the desired file.


CD
Root
1/9
Music 1.mp3
Music 10.mp3
Music 2.mp3

Once you find the desired file, press the ◎ TUNE knob to start playing.

Rewinding / Fast-forwarding Files

While playing, press and hold the SEEK TRACK key (over 0.8 seconds) to rewind or fast-forward the current file.

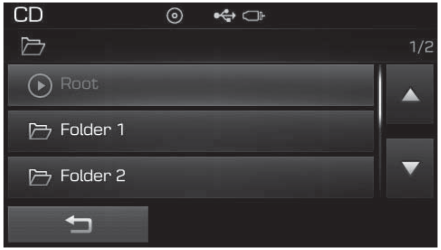
Scan

Press the SCAN key to play the first 10 seconds of each file.

Searching Folders

Press the FOLDER key to select and search folders.

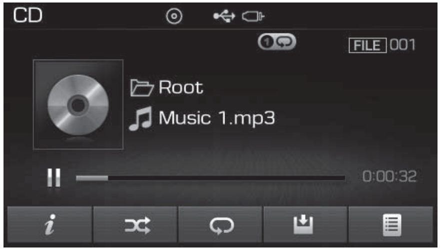
Once the desired folder is displayed, press the TUNE knob to select.



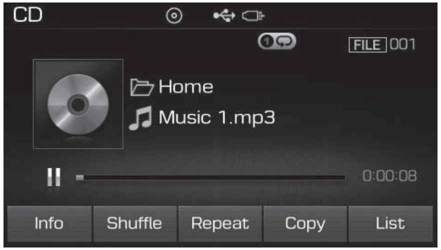
The first file within the selected folder will begin playing.

MP3 CD Mode Menu

Within this mode, you will have access to the Info, Random (Shuffle), Repeat, Copy and List features.



<For RDS model>



Info

Press the i (Info) button to display details about the current file.

NOTICE

- When the 'Folder File' option is set as the default display within Display setup, the album/artist/file information are displayed as detailed file information.
- When the 'Album Artist Song' option is set as the default display, the folder name/file name are displayed as detailed file information.
- The title, artist and album info are displayed only when such information are recorded within the MP3 file ID3 tag.

Random (Shuffle)

Press the (Shuffle) button to play files in random (Shuffle) order.

Each time the button is pressed, the feature changes in order of Random (Shuffle) Folder Random (Shuffle) All Off.

- Random (Shuffle) Folder : Plays all files within the current folder in Random (Shuffle) order.
- Random (Shuffle) All : Plays all files in Random (Shuffle) order.

Repeat

Press the 🔁 (Repeat) button to repeat the current file or folder.

Each time the button is pressed, the feature changes in order of Repeat Repeat Folder Off.

- Repeat: Repeats the current file.
- Repeat Folder: Repeats all files within the current Folder.

Copying Files

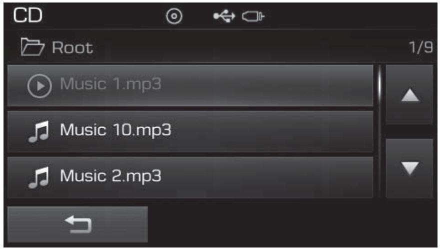
Press the 📥 (Copy) button to copy the current file into My Music.

NOTICE

Selecting another feature during copying will display a pop-up asking whether you wish to cancel copying. To cancel, select 'Yes'.

List

Press the ☰ (List) button to display the file list screen.



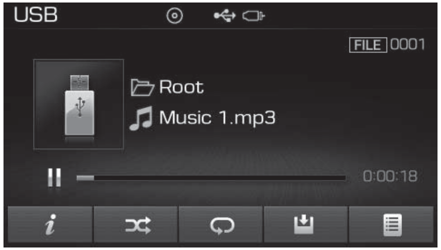
Turn the ◉ TUNE knob left/right to search for files. Once the desired file is displayed, press the knob to select and play.

USB MODE

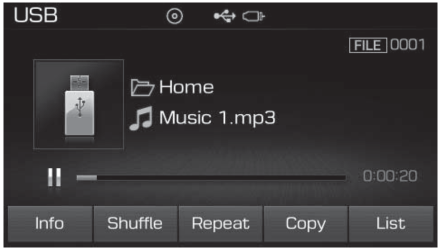
Using USB Mode

Playing/Pausing USB Files

Once a USB is connected, the mode will automatically start and begin playing a USB file.


USB
FILE 0001
Root
Music 1.mp3
0:00:18

<For RDS model>


USB
FILE 0001
Home
Music 1.mp3
0:00:20
Info
Shuffle
Repeat
Copy
List

While playing, press the ⏸ button to pause and press ▶ button to play.

NOTICE

- Loading may require additional time if there are many files and folders within the USB and result in faulty list display or file searching. Normal operations will resume once loading is complete.
- The device may not support normal operation when using a USB memory type besides (Metal Cover Type) USB Memory.

Changing Files

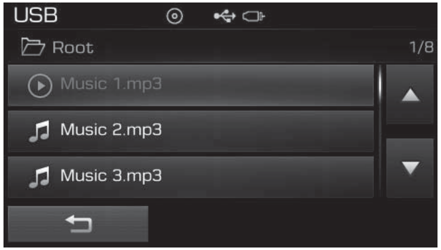
Press the ∨ SEEK TRACK ∧ keys to move to the previous or next file.

NOTICE

- Pressing the ∨ SEEK TRACK ∧ key after the file has been playing for 2 seconds will start the current file from the beginning.
- Pressing the ∨ SEEK TRACK ∧ key before the file has been playing for 1 seconds will start the previous file.

Selecting from the List

Turn the ◉TUNE knob left/right to search for the desired file.


USB
Root
1/8
Music 1.mp3
Music 2.mp3
Music 3.mp3

Once you find the desired file, press the ◉TUNE knob to start playing.

Rewinding /Fast-forwarding Files

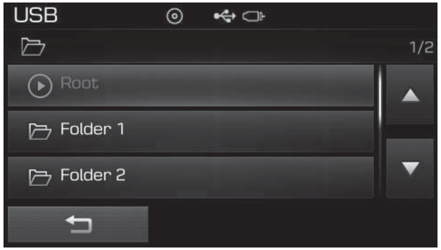
While playing, press and hold the ∨ SEEK TRACK ∧ key (over 0.8 seconds) to rewind or fast-forward the current file.

Scan

Press the SCAN key to play the first 10 seconds of each file.

Searching Folders

Press the ∨FOLDER∧ key to select and search folders.

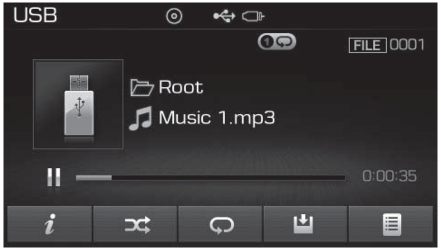


Once the desired folder is displayed, press the ◎ TUNE knob to select.

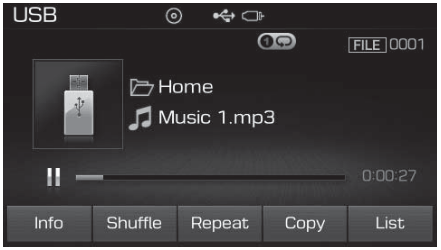
The first file within the selected folder will begin playing.

USB Mode Menu

Within this mode, you will have access to the Info, Random (Shuffle), Repeat, Copy and List features.



<For RDS model>



Info

Press the i (Info) button to display details about the current file.

NOTICE

- When the 'Folder File' option is set as the default display within Display setup, the album/artist/file information are displayed as detailed file information.
- When the 'Album Artist Song' option is set as the default display, the folder name/file name are displayed as detailed file information.
- The title, artist and album info are displayed only when such information are recorded within the MP3 file ID3 tag.

Random (Shuffle)

Press the ⤨ (Shuffle) button to play files in random (Shuffle) order.

Each time the button is pressed, the feature changes in order of Random (Shuffle) Folder Random (Shuffle) All Off.

- Random (Shuffle) Folder: Plays the files in the current folder in random (Shuffle) order.
- Random (Shuffle) All: Plays all files in random (Shuffle) order.

Repeat

Press the (Repeat) button to repeat the current file or folder.

Each time the button is pressed, the feature changes in order of Repeat Repeat Folder Off.

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

Copying Files

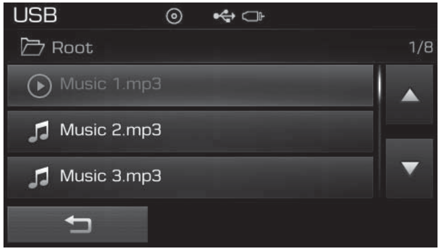
Press the (Copy) button to copy the current file into My Music.

NOTICE

Selecting another feature during copying will display a pop-up asking whether you wish to cancel copying. To cancel, select 'Yes'.

List

Press the (List) button to display the file list screen.



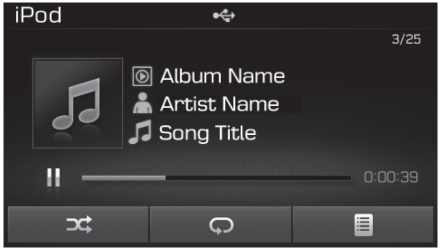
Turn the TUNE knob left/right to search for files. Once the desired file is displayed, press the knob to select and play.

iPod® MODE

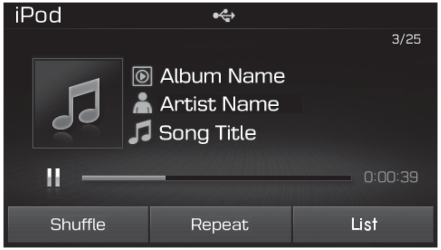
Using iPod® Mode

Playing/Pausing iPod® Songs

Once an iPod® is connected, the mode will automatically start and begin playing an iPod® song.


iPod
3/25
Album Name
Artist Name
Song Title
0:00:39

<For RDS model>


iPod
3/25
Album Name
Artist Name
Song Title
0:00:39
Shuffle
Repeat
List

While playing, press the ❚❚ button to pause and press ▶ button to play.

NOTICE

iPod®s with unsupported communication protocols may not properly operate in the audio system.

Changing Songs

Press the SEEK TRACK key to move to the previous or next song.

NOTICE

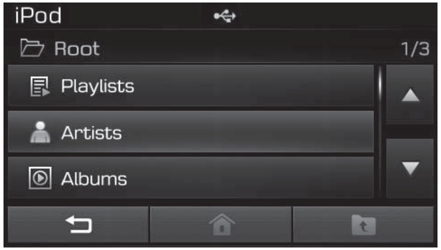
- Pressing the SEEK TRACK key after the song has been playing for 2 seconds will start the current song from the beginning.
- Pressing the SEEK TRACK key before the song has been playing for 1 seconds will start the previous song.
- Slight time differences may exist depending your iPod® product.

Rewinding /Fast-forwarding Songs

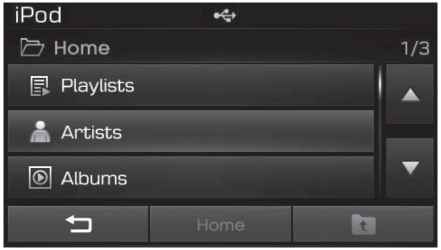
While playing, press and hold the SEEK TRACK key (over 0.8 seconds) to rewind or fast-forward the current song.

Searching Categories

Turn the ◉TUNE knob left/right to search for the desired category.


iPod
Root
1/3
Playlists
Artists
Albums

<For RDS model>


iPod
Home
1/3
Playlists
Artists
Albums
Home

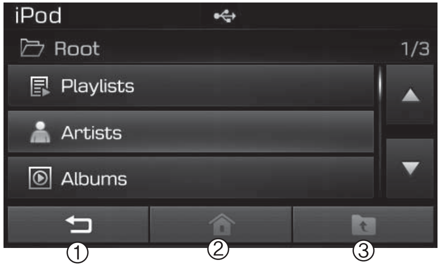
Once you find the desired category, press the ◉TUNE knob to select and play.

NOTICE

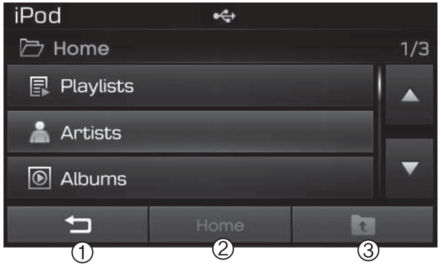
There are eight categories that can be searched, including Playlists, Artists, Albums, Genres, Songs, Composers, Audiobooks and Podcasts.

Category Menu

Within the iPod® Category menu, you will have access to the ↩, ⌂, and ⇧ features.


iPod
Root
1/3
Playlists
Artists
Albums
①
②
③

<For RDS model>


iPod
Home
1/3
Playlists
Artists
Albums
Home
①
②
③

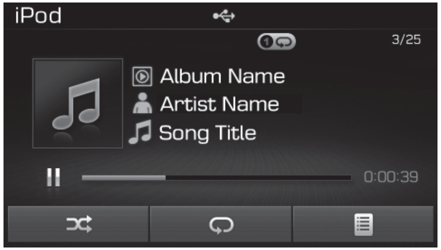
1. ↩ : Displays the play screen
2. ⌂ (Home): Moves to the iPod® root category screen
3. ⇧ : Moves to the previous category

NOTICE

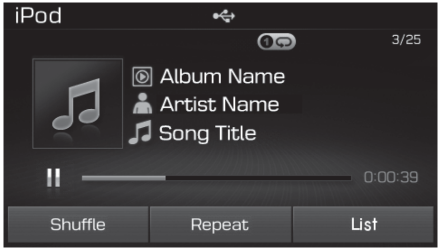
- If the search mode is accessed while playing a song, the most recently searched category is displayed.
- Search steps upon initial connection may differ depending on the type of iPod® device.

iPod® Mode Menu

Within this mode, you will have access to the Random (Shuffle), Repeat and List features.


iPod
3/25
Album Name
Artist Name
Song Title
0:00:39

<For RDS model>


iPod
3/25
Album Name
Artist Name
Song Title
0:00:39
Shuffle
Repeat
List

Random (Shuffle)

Press the ⤮ (Shuffle) button to play songs in random (Shuffle) order.

- Random (Shuffle) All : Plays all songs in Random (Shuffle) order.

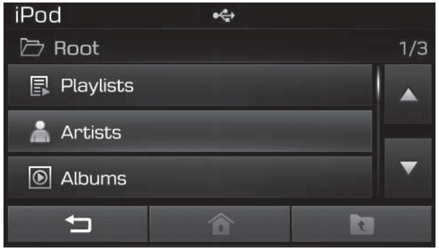
Repeat

Press the 🔁 (Repeat) button to repeat the current song. Press the button again to turn the repeat feature off.

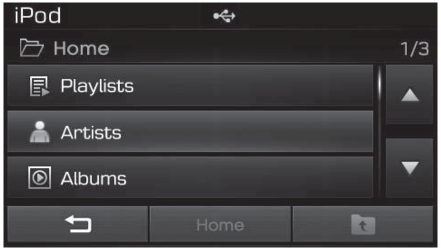
- Repeat : Repeats the current song

List

Press the ☰ (List) button to display the Category Menu.


iPod
Root
1/3
Playlists
Artists
Albums

<For RDS model>


iPod
Home
1/3
Playlists
Artists
Albums
Home

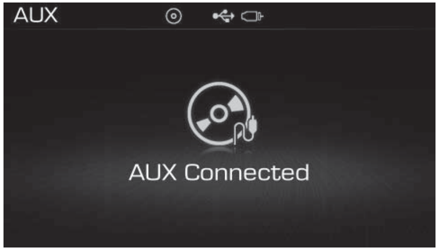
Turn the ◉ TUNE knob left/right to search for the desired category.

Once you find the desired category, press the ◉ TUNE knob to select and play.

AUX MODE

Using AUX Mode

Press the MEDIA key ▶ Select [AUX]



AUX Connected

An external device can be connected to play music.

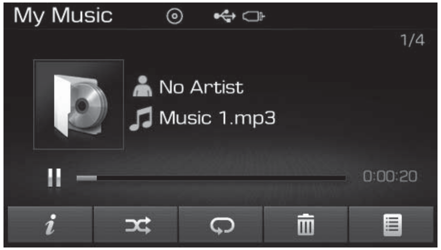
Connecting an External Device

External audio players (Camcorders, car VCR, etc.) can be played through a dedicated cable.

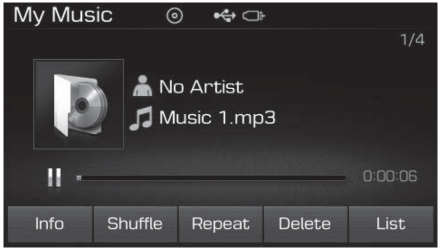
MY MUSIC MODE

Using My Music Mode

Playing/Pausing My Music Files


My Music
1/4
No Artist
Music 1.mp3
0:00:20

<For RDS model>


My Music
1/4
No Artist
Music 1.mp3
0:00:06
Info
Shuffle
Repeat
Delete
List

While playing, press the ⏸ button to pause and press ▶ button to play.

NOTICE

If there are no files saved within My Music, the **My Music** button will be disabled.

Changing Files

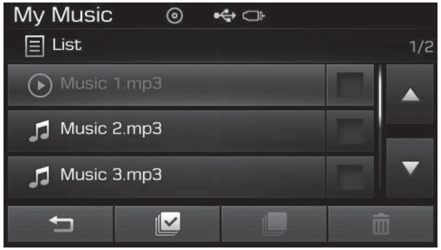
Press the **SEEK TRACK** key to move to the previous or next file.

NOTICE

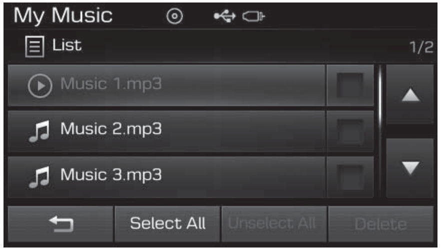
- Pressing the **SEEK TRACK** key after the file has been playing for 2 seconds will start the current file from the beginning.
- Pressing the **SEEK TRACK** key before the file has been playing for 1 seconds will start the previous file.

Selecting from the List

Turn the ◎ TUNE knob left/right to search for the desired file.


My Music
List
1/2
Music 1.mp3
Music 2.mp3
Music 3.mp3

<For RDS model>


My Music
List
1/2
Music 1.mp3
Music 2.mp3
Music 3.mp3
Select All
Unselect All
Delete

Once you find the desired file, press the ◎ TUNE knob to start playing.

Rewinding / Fast-forwarding Files

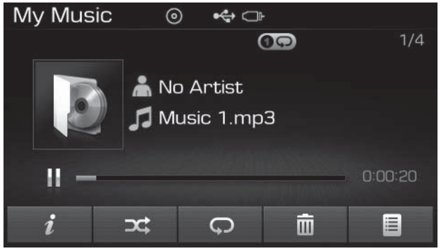
While playing, press and hold the ∨ SEEK TRACK ∧ key to rewind or fast-forward the current file.

Scan

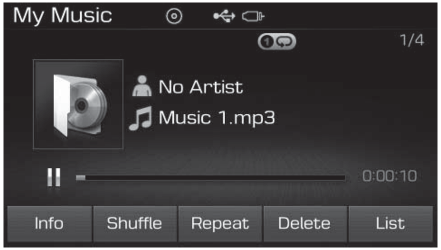
Press the SCAN key to play the first 10 seconds of each file.

My Music Mode Menu

Within this mode, you will have access to the Info, Random (Shuffle), Repeat, Delete and List features.


My Music
1/4
No Artist
Music 1.mp3
0:00:20

<For RDS model>


My Music
1/4
No Artist
Music 1.mp3
0:00:10
Info
Shuffle
Repeat
Delete
List

Info

Press the ℹ (Info) button to display details about the current file.

NOTICE

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

Random

Press the 🔀 (Shuffle) button to play files in random order. Press the button again to turn the Random feature off.

Repeat

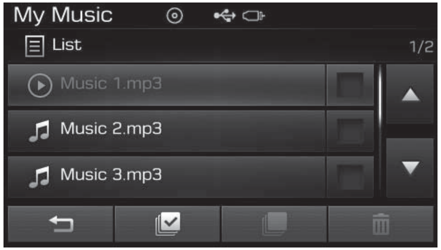
Press the 🔁 (Repeat) button to repeat the current song. Press the button again to turn the repeat feature off.

Deleting Files

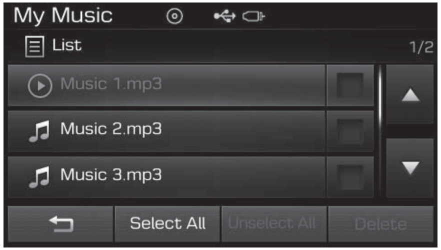
Press the 🗑 (Delete) button to delete the current file.

List

Press the List button to display the file list screen.


My Music
List
1/2
Music 1.mp3
Music 2.mp3
Music 3.mp3

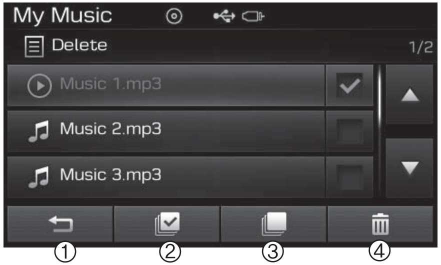
<For RDS model>


My Music
List
1/2
Music 1.mp3
Music 2.mp3
Music 3.mp3
Select All
Unselect All
Delete

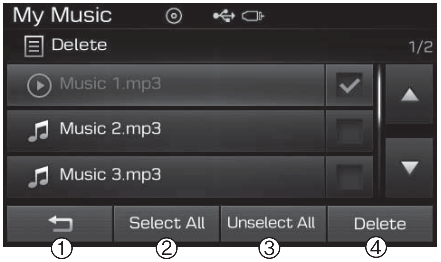
Turn the ◎ TUNE knob left/right to search for files. Once the desired file is displayed, press the knob to select and play.

List Menu

From the List screen, it is possible to delete files you previously saved into My Music.


My Music
Delete
1/2
Music 1.mp3
Music 2.mp3
Music 3.mp3
①
②
③
④

<For RDS model>


My Music
Delete
1/2
Music 1.mp3
Music 2.mp3
Music 3.mp3
Select All
Unselect All
Delete
①
②
③
④

Press the ☑ (Select All) button or individually select the files you want to delete. Once files are selected, the ☐ (Unselect All) button and 🗑 (Delete) buttons will be enabled.

1) ↩ : Moves to the previous screen
2) ☑ (Selects all) : Selects all files
3) ☐ (Unselect All) : Deselects all selected files
4) 🗑 (Delete) : Deletes selected files

After selecting the files you want to delete, press the 🗑 (Delete) button to delete the selected files.

NOTICE

- If there is memory available, up to 6,000 files can be saved.
- Identical files cannot be copied more than 1,000 times.
- To check memory information, go to SETUP ▶ [System] ▶ [Memory Information]

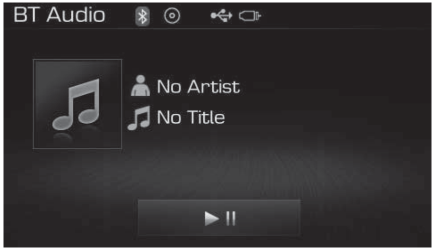
Bluetooth® Wireless Technology AUDIO MODE

(for *Bluetooth®* Wireless Technology equipped model)

Using *Bluetooth®* Wireless Technology Audio Mode

Playing/Pausing Bluetooth® Wireless Technology Audio

Once a *Bluetooth®* Wireless Technology device is connected, the mode will automatically start.



While playing, press the ▶ II button to pause and press ▶ II button to play.

NOTICE

The play/pause feature may operate differently depending on the mobile phone.

Changing Files

Press the SEEK TRACK key to move to the previous or next file.

Setting Connection

If a *Bluetooth®* Wireless Technology device has not been connected, press the SETUP key ▶ [Phone] button to display the *Bluetooth®* Wireless Technology connection screen.

It is possible to use the pair phone, connect/disconnect and delete features from your *Bluetooth®* Wireless Technology phone.

NOTICE

- If the Bluetooth® Wireless Technology audio is not operating properly, check whether the feature is turned off at SETUP ▶ [Phone] ▶ [Audio streaming] (Streaming Audio). If the feature is off, turn back on and try again.
- If music is not yet playing from your mobile device after converting to Bluetooth® Wireless Technology Audio mode, pressing the play button once may start playing the mode. Check to see that music is playing from the Bluetooth® Wireless Technology device after converting to Bluetooth® Wireless Technology Audio Mode.

Bluetooth® Wireless Technology (for RDS, *Bluetooth®* Wireless Technology equipped model)

Using *Bluetooth®* Wireless Technology Handsfree

- *Bluetooth®* Wireless Technology refers to a short-distance wireless networking technology which uses a 2.45GHz frequency to connect various devices within a certain distance.
- Supported within PCs, external devices, *Bluetooth®* Wireless Technology phones, PDAs, various electronic devices, and automotive environments, *Bluetooth®* Wireless Technology allows data to be transmitted at high speeds without having to use a connector cable.
- *Bluetooth®* Wireless Technology Handsfree refers to a device which allows the user to conveniently make phone calls with *Bluetooth®* Wireless Technology mobile phones through the audio system.

⚠ CAUTION

- *Bluetooth® Wireless Technology Handsfree is a feature that enables drivers to practice safe driving. Connecting the car audio system with a Bluetooth® Wireless Technology phone allows the user to conveniently make calls, receive calls, and manage the phone book. Before using the Bluetooth® Wireless Technology, carefully read the contents of this user's manual.*
- *Excessive use or operations while driving may lead to negligent driving practices and be the cause of accidents.*
- *Do not operate the device excessively while driving.*
- *Viewing the screen for prolonged periods of time is dangerous and may lead to accidents. When driving, view the screen only for short periods of time.*

NOTICE - USING UPON CONNECTING *Bluetooth®* Wireless Technology PHONE

- Before connecting the car audio system with the mobile phone, check to see that the mobile phone supports Bluetooth® Wireless Technology features.
- Even if the phone supports Bluetooth® Wireless Technology, the phone will not be found during device searches if the phone has been set to hidden state or the Bluetooth® Wireless Technology power is turned off. Disable the hidden state or turn on the Bluetooth® Wireless Technology power prior to searching/connecting with the car audio system.
- If you do not want to automatically connect your Bluetooth® Wireless Technology phone, try the following.
  1. Turn off the Bluetooth® Wireless Technology feature in your mobile phone.
     - For more information on Bluetooth® Wireless Technology features within your mobile, refer to your mobile phone user's manual.
  2. Turn off the Bluetooth® Wireless Technology feature in your car audio system.

(Continued)

(Continued)

- To turn off the Bluetooth® Wireless Technology feature in your car audio system, go to SETUP ▶ [Phone] and [turn off] the Bluetooth® Wireless Technology feature.

- Park the vehicle when connecting the car audio system with your mobile phone.
- Bluetooth® Wireless Technology connection may become intermittently disconnected in some mobile phones. Follow these steps to try again.
  1. Turn the Bluetooth® Wireless Technology function within the mobile phone off/on and try again.
  2. Turn the mobile phone power Off/On and try again.
  3. Completely remove the mobile phone battery, reboot, and then again.
  4. Reboot the audio system and try again.
  5. Delete all paired devices, pair and try again.
- The Handsfree call volume and quality may differ depending on the mobile phone.

(Continued)

(Continued)

- Bluetooth® Wireless Technology features supported within the vehicle are as follows. Some features may not be supported depending on your Bluetooth® Wireless Technology device.
  - Answering and placing Bluetooth® Wireless Technology Handsfree calls
  - Menu operation during call (Switch to Private, Switch to call waiting, Outgoing volume)
  - Download Call History
  - Download Mobile Phone book
  - Phonebook/Call History Auto Download
  - Bluetooth® Wireless Technology device auto connection
  - Bluetooth® Wireless Technology Audio
- It is possible to pair up to five Bluetooth® Wireless Technology devices to the car system.
- Only one Bluetooth® Wireless Technology device can be connected at a time.
- Other devices cannot be paired while a Bluetooth® Wireless Technology device is already connected.
- When a Bluetooth® Wireless Technology device is being connected, the connection process cannot be canceled.

(Continued)

(Continued)

- Only Bluetooth® Wireless Technology Handsfree and Bluetooth® Wireless Technology audio related features will operate within this system.
- Normal operation is possible only for devices that support Handsfree or audio features, such as a Bluetooth® Wireless Technology mobile phone or a Bluetooth® Wireless Technology audio device.
- Only one function can be used at a time between the Bluetooth® Wireless Technology Handsfree and Bluetooth® Wireless Technology audio. (While playing Bluetooth® Wireless Technology audio, streaming will end upon entering the Bluetooth® Wireless Technology phone screen.)
- If a connected Bluetooth® Wireless Technology device becomes disconnected for various reasons, such as being out of range, turning the device OFF, or a Bluetooth® Wireless Technology communication error, Bluetooth® Wireless Technology devices are automatically searched and connected.
- Placing the audio system within an electromagnetic environment may result in noise interference.

Pairing a *Bluetooth*® Wireless Technology wireless technology Device

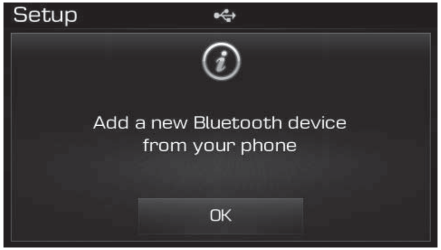
What is *Bluetooth*® Wireless Technology Pairing?

Pairing refers to the process of synchronizing your *Bluetooth*® Wireless Technology phone or device with the car audio system for connection. Pairing is necessary to connect and use the *Bluetooth*® Wireless Technology feature.

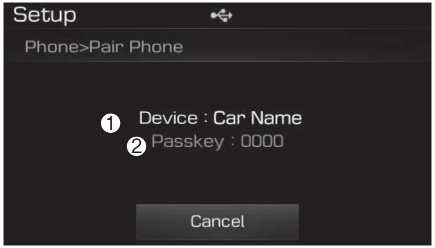
Pairing PHONE Key / ☎ Key on the Steering Remote Controller

When No Devices have been Paired

1. Press the PHONE key or the ☎ key on the steering remote controller. The following screen is displayed.
2. Press the OK button to enter the Pair Phone screen.



Add a new Bluetooth device from your phone



Phone>Pair Phone

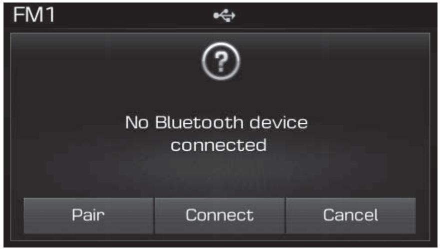
① Device : Car Name

② Passkey : 0000

1) Device : Name of device as shown when searching from your *Bluetooth®* Wireless Technology device
2) Passkey : Passkey used to pair the device

3. From your *Bluetooth®* Wireless Technology device (i.e. Mobile Phone), search and select your car audio system.
4. After a few moments, a screen is displayed where the passkey is entered.
   Here, enter the passkey "0000" to pair your *Bluetooth®* Wireless Technology device with the car audio system.
5. Once pairing is complete, the following screen is displayed.

NOTICE

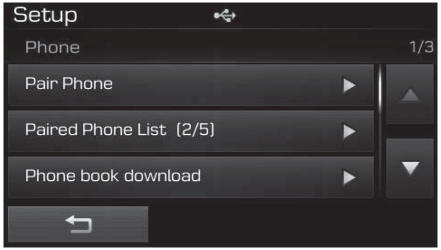


No Bluetooth device connected

- If Bluetooth® Wireless Technology devices are paired but none are currently connected, pressing the PHONE key or the ☎ key on the steering remote controller displays the following screen. Press the [Pair] button to pair a new device or press the [Connect] to connect a previously pair device.

Pairing through [PHONE] Setup

Press the SETUP key ▶ Select [Phone] ▶ Select [Pair Phone] ▶ Select ◎ TUNE knob



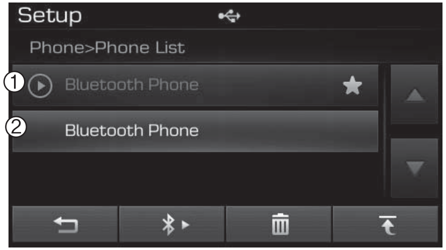
1. The following steps are the same as the steps described in the "When No Devices have been Paired" section.

NOTICE

- The waiting period during phone pairing will last for one minute. The pairing process will fail if the device is not paired within the given time. If the pairing process fails, you must start the process from the beginning.
- Generally, most Bluetooth® Wireless Technology devices will automatically connect once pairing is complete. However, some devices may require a separate verification process to connect. Check to see whether Bluetooth® Wireless Technology has been properly connected within your mobile phone.
- List of paired Bluetooth® Wireless Technology devices can be viewed at SETUP ▶ [Phone] ▶ [Paired Phone List].

Connecting a Device

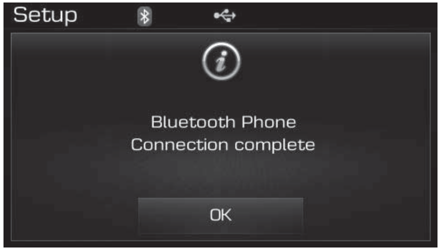
Press the SETUP key ▶ Select [Phone] ▶ Select [Paired Phone List]



1) Connected Phone : Device that is currently connected

2) Paired Phone : Device that is paired but not connected

From the paired phone list, select the device you want to connect and press the ᛒ▸ button.



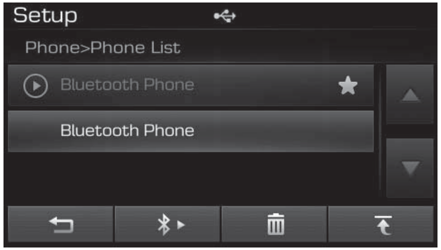
Bluetooth Phone
Connection complete

Changing Priority

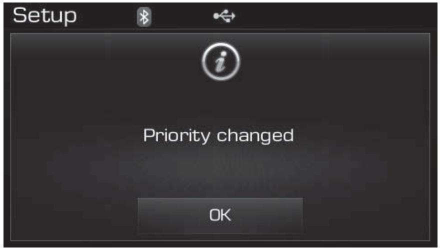
What is Priority?

It is possible to pair up to five *Bluetooth*® Wireless Technology devices with the car audio system. As a result, the "Change Priority" feature is used to set the connection priority of paired phones. However, the most recently connected phone will always be set as the highest priority.

Press the SETUP key▶Select [Phone]▶Select [Paired Phone List]


Setup
Phone>Phone List
Bluetooth Phone
Bluetooth Phone

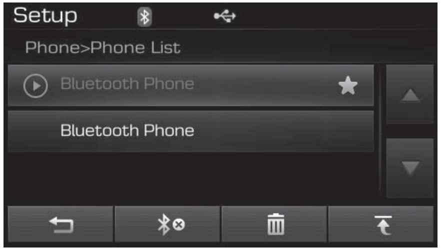
From the paired phone list, select the phone you want to change to the highest priority, then press the ⤒ button from the Menu. The selected device will be changed to the highest priority.



Priority changed

Disconnecting a Device

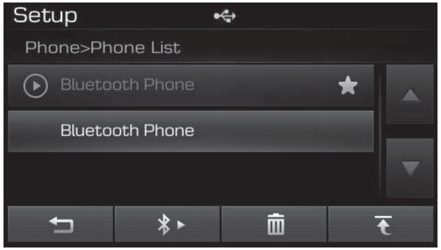
Press the SETUP key▶Select [Phone]▶Select [Paired Phone List]


Setup
Phone>Phone List
Bluetooth Phone
Bluetooth Phone

From the paired phone list, select the currently connected device and press the ⊗ button.

Deleting a Device

Press the **SETUP** key ▶ Select [Phone] ▶ Select [Paired Phone List]



From the paired phone list, select the device you want to delete and press the 🗑 button.

NOTICE

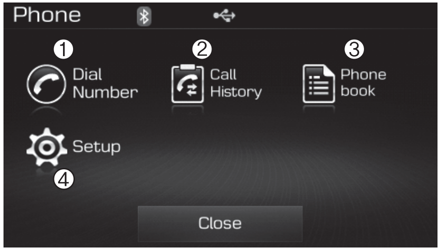
- When deleting the currently connected device, the device will automatically be disconnected to proceed with the deleting process.
- If a paired Bluetooth® Wireless Technology device is deleted, the device's call history and phone book data will also be deleted.
- To re-use a deleted device, you must pair the device again.

USING *Bluetooth®* Wireless Technology

Phone Menu Screen

Phone Menus

With a *Bluetooth®* Wireless Technology device connected, press the **PHONE** key to display the Phone menu screen.



1) Dial Number : Displays the dial screen where numbers can be dialed to make calls

2) Call History : Displays the call history list screen

3) Phone book : Displays the Phone book list screen

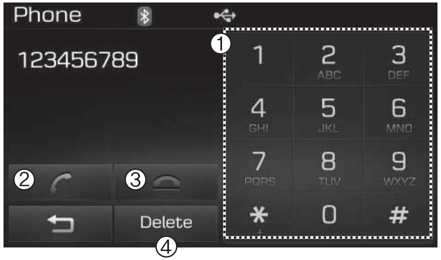
4) Setup : Displays Phone related settings

NOTICE

- If you press the [Call History] button but there is no call history data, a prompt is displayed which asks whether to download call history data.
- If you press the [Phone book] button but there is no phone book data, a prompt is displayed which asks whether to download phone book data..
- This feature may not be supported in some mobile phones. For more information on download support, refer to your mobile phone user's manual.

Calling by Dialing a Number

Press the `PHONE` key ▶ Select [Dial Number]

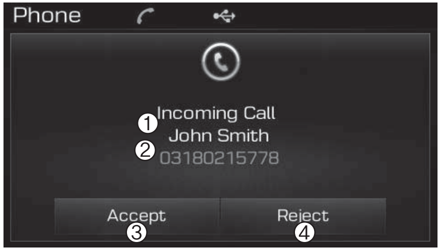

Phone
123456789
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#
Delete
①
②
③
④

1) Dial Pad : Used to enter phone number
2) Call : If a number has been entered, calls the number If no number has been entered, switches to call history screen
3) End : Deletes the entered phone number
4) Delete : Deletes entered numbers one digit at a time

Answering Calls

Answering a Call

Answering a call with a *Bluetooth®* Wireless Technology device connected will display the following screen.

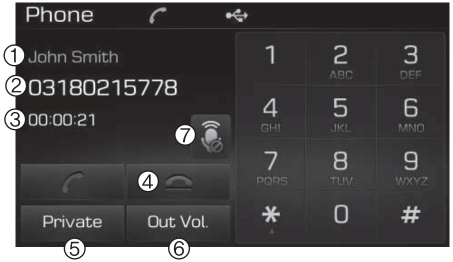

Phone
Incoming Call
John Smith
03180215778
Accept
Reject
①
②
③
④

1) Caller : Displays the other part's name when the incoming caller is saved within your phone book
2) Incoming Number : Displays the incoming number
3) Accept : Accept the incoming call
4) Reject : Reject the incoming call

NOTICE

- When the incoming call pop-up is displayed, most Audio and SETUP mode features will not operate. Only the call volume can be operated.
- The telephone number may not be properly displayed in some mobile phones.
- When a call is answered with the mobile phone, the call mode will automatically convert to Private mode.

During a Handsfree Call


Phone
①
John Smith
②
03180215778
③
00:00:21
⑦
④
Private
Out Vol.
⑤
⑥
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#

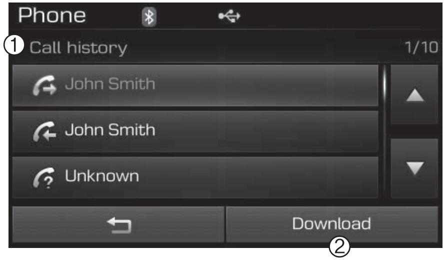
1) Caller : Displays the other party's name if the incoming caller is saved within your phone book
2) Incoming Number : Displays the incoming number
3) Call time : Displays the call time
4) End : Ends call
5) Private : Converts to Private mode
6) Out Vol. : Sets call volume as heard by the other party
7) Mute : Turns Mic Mute On/Off

NOTICE

If the mic is muted, the other party will not be able to hear your voice.

Call History

Press the PHONE key ▶ Select [Call History]


Phone
①
Call history
1/10
John Smith
John Smith
Unknown
Download
②

A list of incoming, outgoing and missed calls is displayed.

Press the [Download] button to download the call history.

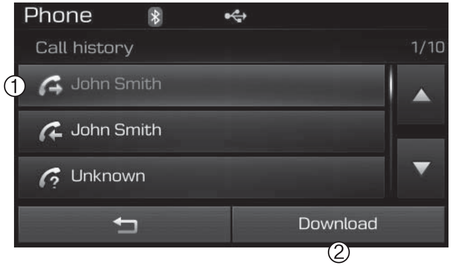
1) Call History :
   - Displays recent calls (call history)
   - Connects call upon selection
2) Download : Download Recent Call History

NOTICE

- The call history list will display up to 30 outgoing, incoming, and missed calls.
- Upon downloading call histories, previously saved histories are deleted.
- Incoming calls with hidden caller IDs will not be saved in the call history list.
- Previously saved phone book entries are stored even if a device is disconnected and re-connected.
- The download feature may not be supported in some mobile phones. Check to see that the Bluetooth® Wireless Technology device supports the download feature.

Phone Book

Press the PHONE key ▶ Select [Phone book]



The list of saved phone book entries is displayed. Press the [Download] button to download the call history.

1) Phone book List :

- Displays downloaded phone book entries
- Connects call upon selection

2) Download : Download phone book entries

NOTICE

- Up to 1,000 phone book entries can be copied into car phone book.
- Upon downloading phone book data, previously saved phone book data will be deleted.
- Downloading is not possible if the phone book download feature is turned off within the Bluetooth® Wireless Technology device. Also, some devices may require device authorization upon attempting to download. If downloading cannot be normally conducted, check the Bluetooth® Wireless Technology device setting or the screen state.
- Caller ID information will not be displayed for unsaved callers.
- The download feature may not be supported in some mobile phones. Check to see that the Bluetooth® Wireless Technology device supports the download feature.

Bluetooth® Wireless Technology (for *Bluetooth*® Wireless Technology equipped model)

Pairing a *Bluetooth*® Wireless Technology wireless technology Device

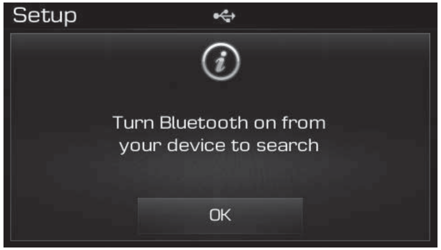
What is *Bluetooth*® Wireless Technology Pairing?

Pairing refers to the process of synchronizing your *Bluetooth*® Wireless Technology phone or device with the car audio system for connection. Pairing is necessary to connect and use the *Bluetooth*® Wireless Technology feature.

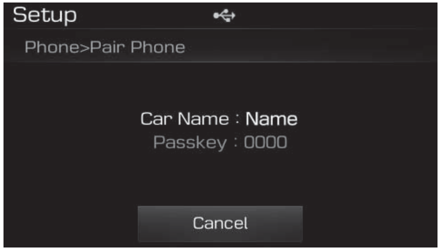
Pairing PHONE Key / ☎ Key on the Steering Remote Controller

When No Devices have been Paired

1. Press the PHONE key or the ☎ key on the steering remote controller. The following screen is displayed.
2. Press the OK button to enter the Pair Phone screen.



Turn Bluetooth on from your device to search



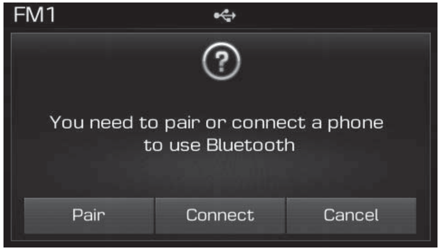
Car Name : Name
Passkey : 0000

1) Device : Name of device as shown when searching from your *Bluetooth*® Wireless Technology device

2) Passkey : Passkey used to pair the device

3. From your *Bluetooth*® Wireless Technology device (i.e. Mobile Phone), search and select your car audio system.
4. After a few moments, a screen is displayed where the passkey is entered.
   Here, enter the passkey "0000" to pair your *Bluetooth*® Wireless Technology device with the car audio system.
5. Once pairing is complete, the following screen is displayed.

NOTICE

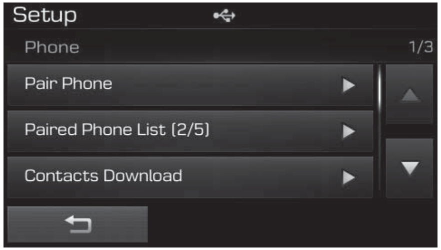


You need to pair or connect a phone to use Bluetooth

- If Bluetooth® Wireless Technology devices are paired but none are currently connected, pressing **PHONE** key or the ☎ key on the steering remote controller displays the following screen. Press the [Pair] button to pair a new device or press the [Connect] to connect a previously pair device.

Pairing through [PHONE] Setup

Press the **SETUP** key ▶Select [Phone]▶Select [Pair Phone] ▶ Select ◉TUNE knob



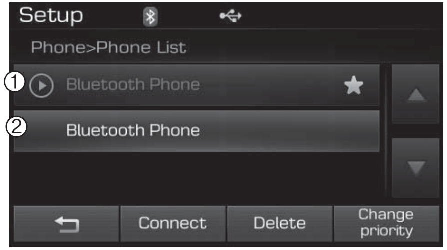
1. The following steps are the same as the steps described in the "When No Devices have been Paired" section.

NOTICE

- The waiting period during phone pairing will last for one minute. The pairing process will fail if the device is not paired within the given time. If the pairing process fails, you must start the process from the beginning.
- Generally, most Bluetooth® Wireless Technology devices will automatically connect once pairing is complete. However, some devices may require a separate verification process to connect. Check to see whether Bluetooth® Wireless Technology has been properly connected within your mobile phone.
- List of paired Bluetooth® Wireless Technology devices can be viewed at **SETUP** ▶ [Phone]▶ [Paired Phone List].

Connecting a Device

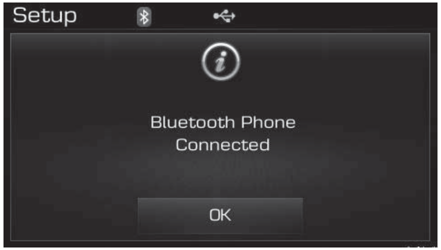
Press the SETUP key ▶ Select [Phone] ▶ Select [Paired Phone List]


Setup
Phone>Phone List
①
Bluetooth Phone
②
Bluetooth Phone
Connect
Delete
Change priority

1) Connected Phone : Device that is currently connected

2) Paired Phone : Device that is paired but not connected

From the paired phone list, select the device you want to connect and press the Connect button.



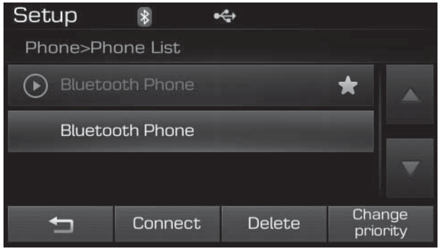
Bluetooth Phone
Connected

Changing Priority

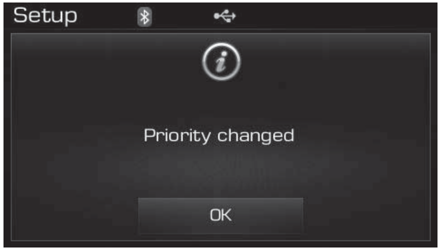
What is Priority?

It is possible to pair up to five *Bluetooth*® Wireless Technology devices with the car audio system. As a result, the "Change Priority' feature is used to set the connection priority of paired phones. However, the most recently connected phone will always be set as the highest priority.

Press the SETUP key ▶ Select [Phone] ▶ Select [Paired Phone List]


Setup
Phone>Phone List
Bluetooth Phone
Bluetooth Phone
Connect
Delete
Change priority

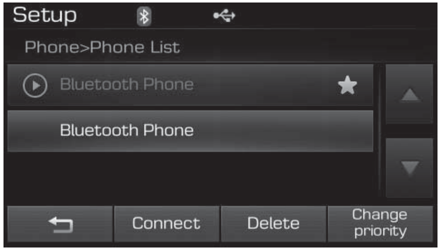
From the paired phone list, select the phone you want to change to the highest priority, then press the Change priority button from the Menu. The selected device will be changed to the highest priority.



Priority changed

Disconnecting a Device

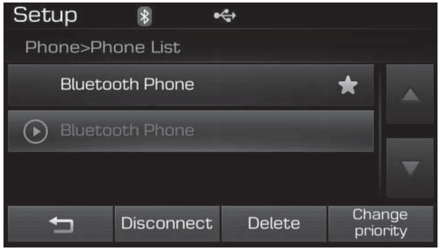
Press the SETUP key▶Select [Phone]▶Select [Paired Phone List]


Setup
Phone>Phone List
Bluetooth Phone
Bluetooth Phone
Connect
Delete
Change priority

From the paired phone list, select the currently connected device and press the Disconnect button.

Deleting a Device

Press the SETUP key▶Select [Phone]▶Select [Paired Phone List]


Setup
Phone>Phone List
Bluetooth Phone
Bluetooth Phone
Disconnect
Delete
Change priority

From the paired phone list, select the device you want to delete and press the Delete button.

NOTICE

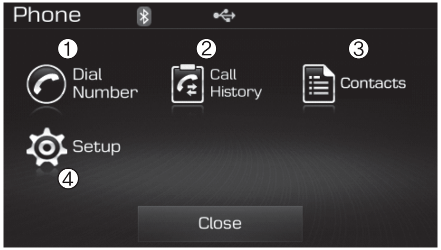
- When deleting the currently connected device, the device will automatically be disconnected to proceed with the deleting process.
- If a paired Bluetooth® Wireless Technology device is deleted, the device's call history and contacts data will also be deleted.
- To re-use a deleted device, you must pair the device again.

USING *Bluetooth®* Wireless Technology

Phone Menu Screen

Phone Menus

With a *Bluetooth®* Wireless Technology device connected, press the `PHONE` key to display the Phone menu screen.



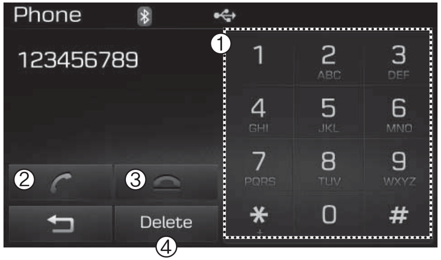
1) Dial Number : Displays the dial screen where numbers can be dialed to make calls
2) Call History : Displays the call history list screen
3) Contacts : Displays the Contacts list screen
4) Setup : Displays Phone related settings

NOTICE

- If you press the [Call History] button but there is no call history data, a prompt is displayed which asks whether to download call history data.
- If you press the [contacts] button but there is no contacs data, a prompt is displayed which asks whether to download contacts data.
- This feature may not be supported in some mobile phones. For more information on download support, refer to your mobile phone user's manual.

Calling by Dialing a Number

Press the `PHONE` key ▶ Select [Dial Number]

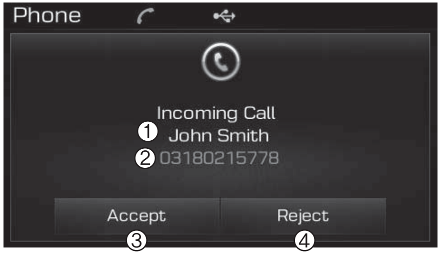

Phone
123456789
①
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#
②
③
Delete
④

1) Dial Pad : Used to enter phone number
2) Call : If a number has been entered, calls the number If no number has been entered, switches to call history screen
3) End : Deletes the entered phone number
4) Delete : Deletes entered numbers one digit at a time

Answering Calls

Answering a Call

Answering a call with a *Bluetooth*® Wireless Technology device connected will display the following screen.

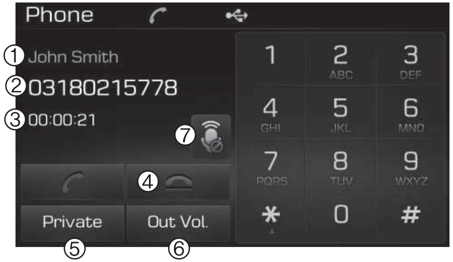

Phone
Incoming Call
① John Smith
② 03180215778
Accept
Reject
③
④

1) Caller : Displays the other part's name when the incoming caller is saved within your contacts
2) Incoming Number : Displays the incoming number
3) Accept : Accept the incoming call
4) Reject : Reject the incoming call

NOTICE

- When the incoming call pop-up is displayed, most Audio and SETUP mode features will not operate. Only the call volume can be operated.
- The telephone number may not be properly displayed in some mobile phones.
- When a call is answered with the mobile phone, the call mode will automatically convert to Private mode.

During a Handsfree Call


Phone
①
John Smith
②
03180215778
③
00:00:21
⑦
④
Private
Out Vol.
⑤
⑥
1
2 ABC
3 DEF
4 GHI
5 JKL
6 MNO
7 PQRS
8 TUV
9 WXYZ
*
0
#

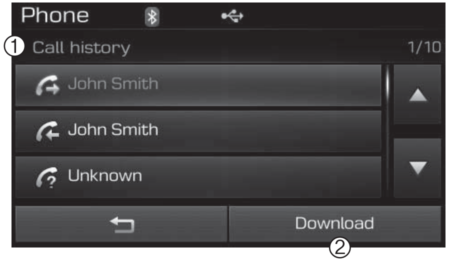
1) Caller : Displays the other party's name if the incoming caller is saved within your contacts
2) Incoming Number : Displays the incoming number
3) Call time : Displays the call time
4) End : Ends call
5) Private : Converts to Private mode
6) Out Vol. : Sets call volume as heard by the other party
7) Mute : Turns Mic Mute On/Off

NOTICE

If the mic is muted, the other party will not be able to hear your voice.

Call History

Press the PHONE key ▶ Select [Call History]


Phone
①
Call history
1/10
John Smith
John Smith
Unknown
Download
②

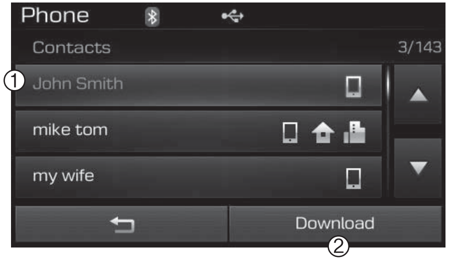
A list of incoming, outgoing and missed calls is displayed.

Press the Download button to download the call history.

1) Call History :
   - Displays recent calls (call history)
   - Connects call upon selection
2) Download : Download Recent Call History

Contacts

Press the PHONE key ▶ Select [Contacts]


Phone
Contacts
3/143
①
John Smith
mike tom
my wife
Download
②

The list of saved phone book entries is displayed. Press the Download button to download the call history.

1) Contacts List :
   - Displays downloaded contacts entries
   - Connects call upon selection
2) Download : Download contacts entries

NOTICE

- Up to 1,000 contacts entries can be copied into car contacts.
- Upon downloading contacts data, previously saved contacts data will be deleted.
- Downloading is not possible if the contacts download feature is turned off within the Bluetooth® Wireless Technology device. Also, some devices may require device authorization upon attempting to download. If downloading cannot be normally conducted, check the Bluetooth® Wireless Technology device setting or the screen state.
- Caller ID information will not be displayed for unsaved callers.
- The download feature may not be supported in some mobile phones. Check to see that the Bluetooth® Wireless Technology device supports the download feature.

NOTICE - USING THE Voice Recognition

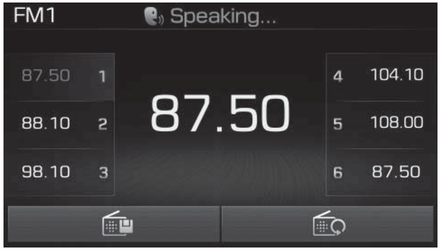
- When using the voice recognition feature, only commands listed within the user's manual are supported.
- Be aware that during the operation of the voice recognition system, pressing any key other than the 🗣 key or touching the screen will terminate voice recognition mode.
- For superior voice recognition performance, position the microphone used for voice recognition above the head of the driver's seat and maintain a proper position when saying commands.
- Within the following situations, voice recognition may not function properly due to external sound.
  - When the windows and sunroof are open
  - When the wind of the cooling/heating device is strong
  - When entering and passing through tunnels
  - When driving on rugged and uneven roads
  - During severe rain (heavy rains, windstorms)
- Phone related voice commands can be used only when a Bluetooth® Wireless Technology device is connected.
- When making calls by stating a name, the corresponding contact must be downloaded and stored within the audio system.
- After downloading the Bluetooth® Wireless Technology phone book, it takes some times to convert the phone book data into voice information. During this time, voice recognition may not properly operate.
- Pronounce the voice commands naturally and clearly as if in a normal conversation.

VOICE RECOGNITION (if equipped)

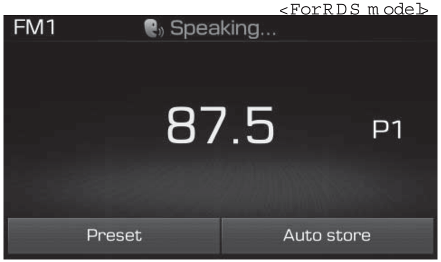
Using Voice Recognition

Starting Voice Recognition

Shortly press the key on the steering remote controller. Say a command



<For RDS model>



If voice recognition is in [Normal Mode], then the system will say "Please say a command. Beep~"

- If voice recognition is in [Expert Mode], then the system will only say a "Beep~"
- To change the Normal Mode/Expert Mode setting, go to SETUP ▶ [System] ▶ [Prompt Feedback].

NOTICE

For proper recognition, say the command after the voice instruction and beep tone.

Skipping Prompt Messages

While prompt message is being stated ▶ Shortly press the key on the steering remote controller (under 0.8 seconds)

The prompt message is immediately ended and the beep tone will sound. After the "beep", say the voice command.

Re-starting Voice Recognition

While system waits for a command ▶ Shortly press the key on the steering remote controller (under 0.8 seconds)

The command wait state is immediately ended and the beep ton will sound. After the "beep", say the voice command.

ENDING VOICE RECOGNITION

While Voice Recognition is operating

▶Press and hold the 🗣 key on the steering remote controller (over 0.8 seconds)

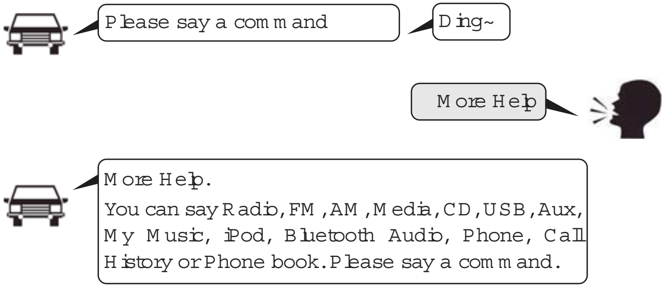
NOTICE

- While using voice command, pressing a steering wheel remote control or a different key will end voice command.
- In a state where the system is waiting for a voice command, say “cancel” or “end” to end voice command.
- In a state where the system is waiting for a voice command, press and hold the 🗣 key on the steering remote controller to end voice command.

Illustration on using voice commands

- *Starting voice command.*

Shortly pressing the 🗣 key (under 0.8 seconds):



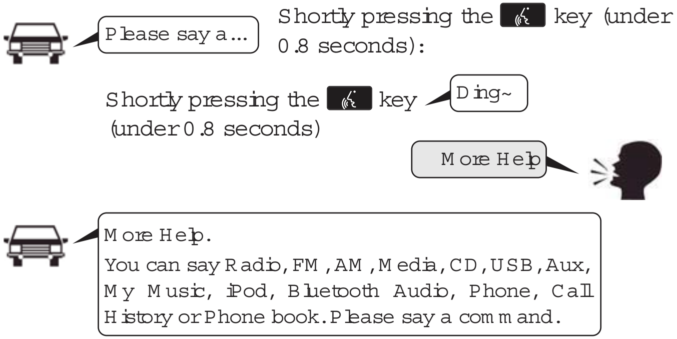
Please say a command

Ding~

More Help

More Help.
You can say Radio, FM, AM, Media, CD, USB, Aux, My Music, iPod, Bluetooth Audio, Phone, Call History or Phone book. Please say a command.

- *Skipping Voice Recognition*



Please say a ...

Shortly pressing the 🗣 key (under 0.8 seconds):

Shortly pressing the 🗣 key (under 0.8 seconds)

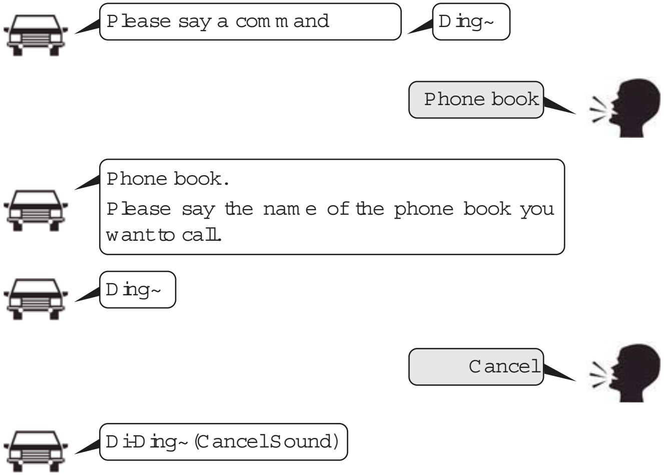
Ding~

More Help

More Help.
You can say Radio, FM, AM, Media, CD, USB, Aux, My Music, iPod, Bluetooth Audio, Phone, Call History or Phone book. Please say a command.

- *End voice command.*

Shortly pressing the 🗣 key (under 0.8 seconds):



Please say a command

Ding~

Phone book

Phone book.
Please say the name of the phone book you want to call.

Ding~

Cancel

Di-Ding~ (Cancel Sound)

Voice Command List

- Common Commands: These are commands that can be used in all situations. (However, some commands may not be supported in special circumstances.)

Command	Function
More Help	Provides guidance on commands that can be used anywhere in the system .
Help	Provides guidance on commands that can be used within the current mode.
Call<Name>	Calls <Name> saved in phone book Ex) Call "John"
Phone	Provides guidance on Phone related commands. After saying this command, say "Call History", "Phone book", "Dial Number" to execute corresponding functions.
Call History	Displays the Call History screen.
Phone book	Displays the phone book screen. After saying this command, say the name of a phone book saved in the phone book to automatically connect the call.
Dial Number	Display the Dial number screen. After saying this command, you can say the number what you want to call.
Redial	Connects the most recently called number.
Radio	• When listening to the radio, displays the next radio screen. (FM1 FM2 FMA AM AMA) • When listening to a different mode, displays the most recently played radio screen.

Command	Function
FM	• When currently listening to the FM radio, maintains the current state. • When listening to a different mode, displays the most recently played FM screen.
FM1 (FM One)	Displays the FM1 screen.
FM2 (FM Two)	Displays the FM2 screen.
FMA	Displays the FMA screen.
AM	Displays the AM screen.
AMA	Displays the AMA screen.
FM Preset1~6	Plays the most recently played broadcast saved in FM Preset1~6.
AM Preset1~6	Plays the broadcast saved in AM Preset1~6.
FM 87.5~107.9	Plays the FM broadcast of the corresponding frequency.
AM 530~1710	Plays the AM broadcast of the corresponding frequency.
TA on	Enable Traffic Announcement
TA off	Disable Traffic Announcement
News on	Enable RDS News feature
News off	Disable RDS News feature

Command	Function
Media	Moves to the most recently played media screen.
Play Track 1~30	If a music CD has been inserted, plays the corresponding track.
CD	Plays the music saved in the CD.
Search CD	Moves to the CD track or file selection screen. ● For audio CDs, move to the screen and say the track number to play the corresponding track. ● Moves to MP3 CD file selection screen. After manually operate the device to select and play music.
USB	Plays USB music.
Search USB	Moves to USB file selection screen. After manually operate the device to select and play music.
iPod	Plays iPod music.
Search iPod	Moves to the iPod file selection screen. After, manually operate the device to select and play music.
My Music	Plays the music saved in My Music.
Search My Music	Moves to My Music file selection screen. After manually operate the device to select and play music.

Command	Function
AUX (Auxiliary)	Plays the connected external device.
Bluetooth Audio	Plays the music saved in connected *Bluetooth*® Wireless Technology device.
Mute	Mutes the radio or music volume.
Pardon?	Repeats the most recent comment.
Cancel (Exit)	Ends voice command.

- FM/AM radio commands: Commands that can be used while listening to FM, AM radio.

Command	Function
Preset 1~6	Plays the broadcast saved in Preset 1~6.
Auto Store	Automatically selects radio broadcast frequencies with superior reception and saves in Presets 1~6.
Preset Save 1~6	Saves the current broadcast frequency to Preset 1~6.
Seek up	Plays the next receivable broadcast.
Seek down	Plays the previous receivable broadcast.
Next Preset	Selects the preset number next to the most recently selected preset. (Example: When currently listening to preset no. 3, then preset no. 4 will be selected.)
Previous Preset	Selects the preset number previous to the most recently selected preset. (Example: When currently listening to preset no. 3, then preset no. 2 will be selected.)
Scan	Scans receivable frequencies from the current broadcast and plays for 10 seconds each.
Preset Scan	Moves to the next preset from the current present and plays for 10 seconds each.
AF on	Enable Alternative Frequency feature
AF off	Disable Alternative Frequency feature
Region	Enable Region feature

- Audio CD commands: Commands that can be used while listening to Audio CD.

Command	Function
Region off	Disable Region feature
Program Type	Moves to the RDS Program type selection screen. After, manually operate the device to select a desired program type.
Random	Randomly plays the tracks within the CD.
Random Off	Cancels random play to play tracks in sequential order.
Repeat	Repeats the current track.
Repeat Off	Cancels repeat play to play tracks in sequential order.
Next Track	Plays the next track.
Previous Track	Plays the previous track.
Scan	Scans the tracks from the next track for 10 seconds each.
Track 1~30	Plays the desired track number.
Search Track	Moves to the track selection screen. After, say the track name to play the corresponding track.
Information	Displays the information screen of the current track.

- MP3 CD /USB commands: Commands that can be used while listening to music files saved in CD and USB.

Command	Function
Random	Randomly plays the files within the current folder.
All Random	Randomly plays all saved files.
Random Off	Cancels random play to play files in sequential order.
Repeat	Repeats the current file.
Folder Repeat	Repeats all files in the current folder.
Repeat Off	Cancels repeat play to play files in sequential order.
Next File	Plays the next file.
Previous File	Plays the previous file.
Scan	Scans the files from the next files for 10 seconds each.
Search File	Moves to the file selection screen.
Search Folder	Moves to the folder selection screen.
Information	Displays the information screen of the current file.
Copy	Copies the current file into My Music.

- iPod Commands: Commands that can be used while playing iPod.

Command	Function
All Random	Randomly plays all saved songs.
Random	Randomly plays the songs within the current category.
Random Off	Cancels random play to play songs in sequential order.
Repeat	Repeats the current song.
Repeat Off	Cancels repeat play to play songs in sequential order.
Next Song	Plays the next song.
Previous Song	Plays the previous song.
Search Song	Moves to the song selection screen.
Information	Displays the information screen of the current song.

- My Music Commands: Commands that can be used while playing My Music.

Command	Function
Random	Randomly plays all saved files.
Random Off	Cancels random play to play files in sequential order.
Repeat	Repeats the current file.
Repeat Off	Cancels repeat play to play files in sequential order.
Next File	Plays the next file.
Previous File	Plays the previous file.
Scan	Scans the files from the next files for 10 seconds each.
Search File	Moves to the file selection screen.
Information	Displays the information screen of the current file.
Delete	Deletes the current file. You will bypass an additional confirmation process.
Delete All	Deletes all files saved in My Music. You will bypass an additional confirmation process.

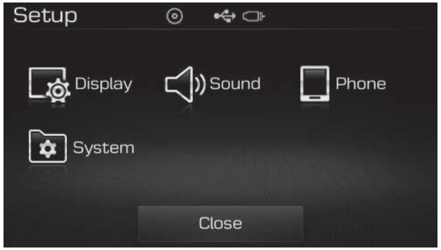
- *Bluetooth®* Wireless Technology Audio Commands: Commands that can be used while playing Phone Music.

Command	Function
Play	Plays the currently paused song.
Pause	Pauses the current song.

SETUP
(FOR RDS, *BLUETOOTH®* WIRELESS TECHNOLOGY EQUIPPED MODEL)

Starting Mode

Press the SETUP key to display the Setup screen.

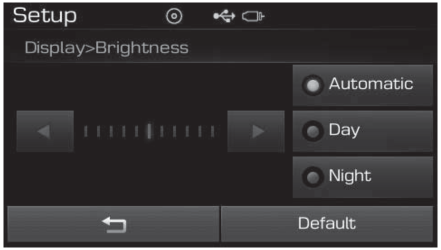

Setup
Display
Sound
Phone
System
Close

You can select and control options related to [Display], [Sound], [Phone] and [System].

Display Settings

Adjusting the Brightness

Press the SETUP key ▶ Select [Display] ▶ Select [Brightness]


Setup
Display>Brightness
Automatic
Day
Night
Default

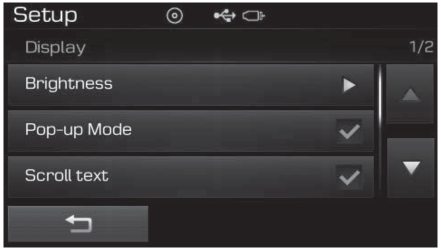
Use the ◀, ▶ buttons to adjust the screen brightness or set the Brightness on Automatic, Day, or Night mode.

Press the Default button to reset.

1) Automatic : Adjusts the brightness automatically
2) Day : Always maintains the brightness on high
3) Night: Always maintains the brightness on low

Pop-up Mode

Press the SETUP key ▶ Select [Display] ▶ Select [Pop-up Mode]


Setup
Display
1/2
Brightness
Pop-up Mode ✓
Scroll text ✓

This feature is used to display the Pop-up Mode screen when entering radio and media modes.

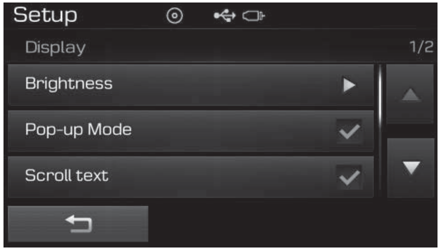
When this feature is turned on, pressing the RADIO or MEDIA key will display the Pop-up Mode screen.

NOTICE

The media Pop-up Mode screen can be displayed only when two or more media modes have been connected.

Scroll Text

Press the SETUP key ▶ Select [Display] ▶ Select [Scroll text]

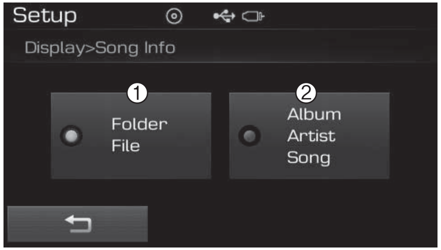

Setup
Display
1/2
Brightness
Pop-up Mode
Scroll text

This feature is used to scroll text displayed on the screen when it is too long to be displayed at once.

When turned on, the text is repeatedly scrolled. When turned off, the text is scrolled just once.

MP3 Information Display

Press the SETUP key ▶ Select [Display] ▶ Select [Song Info]


Setup
Display>Song Info
①
Folder
File
②
Album
Artist
Song

This feature is used to change the information displayed within USB and MP3 CD modes.

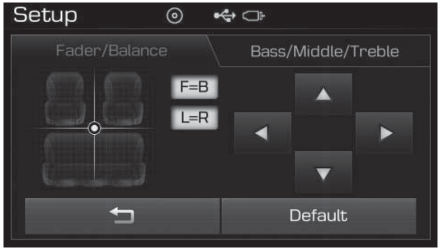
1) Folder File : Displays file name and folder name

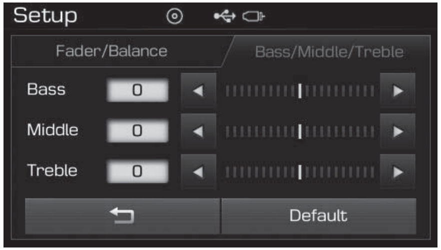
2) Album Artist Song : Displays album name/artist name/song

Sound Settings

Audio Settings

Press the SETUP key ▶ Select [Sound] ▶ Select [Audio Setting]


Setup
Fader/Balance
Bass/Middle/Treble
F=B
L=R
Default


Setup
Fader/Balance
Bass/Middle/Treble
Default

Bass 0
Middle 0
Treble 0

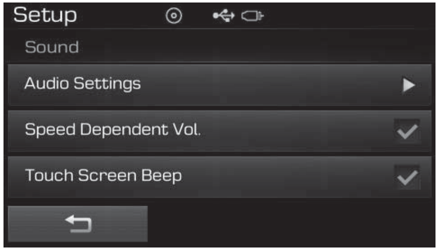
Use the ◀, ▶, ▲, ▼ buttons to adjust the Fader/Balance settings.

Use the ◀, ▶ buttons to adjust the Bass/Middle/Treble settings.

Press the Default button to reset.

SDVC (Speed Dependent Volume Control)

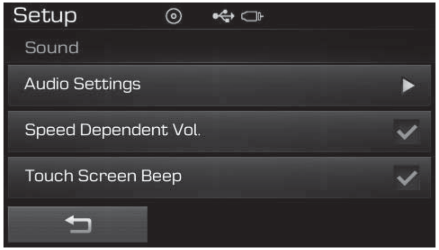
Press the SETUP key ▶ Select [Sound] ▶ Select [Speed Dependent Vol.]


Setup
Sound
Audio Settings ▶
Speed Dependent Vol. ✓
Touch Screen Beep ✓

The volume level is controlled automatically according to the vehicle speed. SDVC can be set by selecting from On/Off.

Touch Screen Beep

Press the SETUP key ▶ Select [Sound] ▶ Select [Touch Screen Beep]

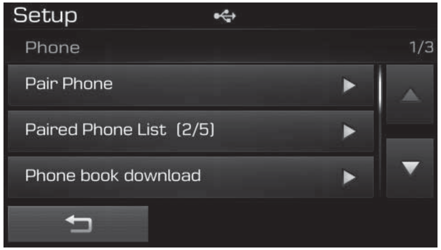

Setup
Sound
Audio Settings ▶
Speed Dependent Vol. ✓
Touch Screen Beep ✓

This feature is used to turn the touch screen beep on/off.

Bluetooth® Wireless Technology Setting

Pairing a New Device

Press the SETUP key ▶ Select [Phone] ▶ Select [Pair Phone]

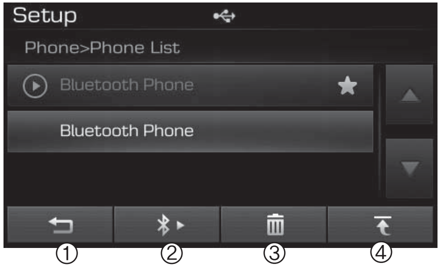


Bluetooth® Wireless Technology devices can be paired with the audio system.

For more information, refer to the "Pairing through Phone Setup" section within *Bluetooth*® Wireless Technology.

Viewing Paired Phone List

Press the SETUP key ▶ Select [Phone] ▶ Select [Paired Phone List]



This feature is used to view mobile phones that have been paired with the audio system. Upon selecting a paired phone, the setup menu is displayed.

For more information, refer to the "Setting *Bluetooth*® Wireless Technology Connection" section within *Bluetooth*® Wireless Technology.

1) ↩ : Moves to the previous screen

2) ᛒ▸ : Connect/disconnects currently selected phone

3) 🗑 : Deletes the currently selected phone

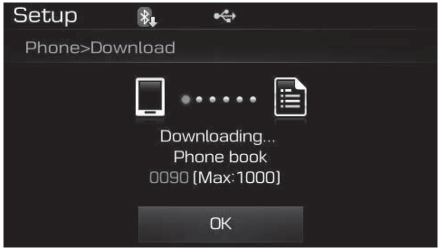
4) ⤒ : Sets currently selected phone to highest connection priority

NOTICE BEFORE DOWNLOADING PHONE BOOKS

- Only phone books within connected phones can be downloaded. Also check to see that your mobile phone supports the download feature.
- To learn more about whether your mobile phone supports phone book downloads, refer to your mobile phone user's manual.
- The Phone book for only the connected phone can be downloaded. Before downloading, check to see whether your phone supports the download feature.

Downloading Phone books

Press the SETUP key▶Select [Phone]▶Select [Phone book Download]


Setup
Phone>Download
OK

Downloading...
Phone book
0090 [Max:1000]

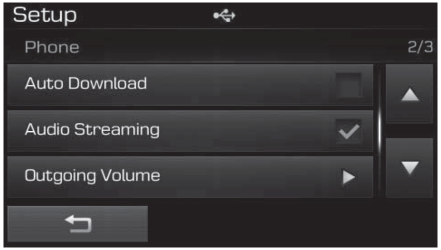
The Phone book is downloaded from the mobile phone and the download progress is displayed.

NOTICE

- Up to 1,000 phone book entries can be copied into car phone book.
- Up to 1,000 phone book entries can be saved for each paired device.
- Upon downloading phone book data, previously saved phone book data will be deleted. However, Phone book entries saved to other paired phones are not deleted.

Auto Download (Phone Book)

Press the SETUP key▶Select [Phone]▶Select [Auto Download]


Setup
Phone
2/3
Auto Download
Audio Streaming
Outgoing Volume

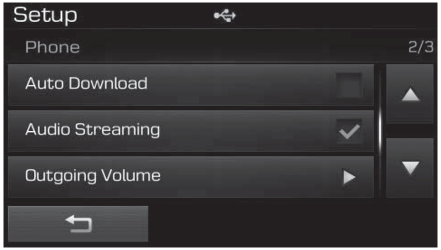
This feature is used to automatically download mobile phone book entries once a *Bluetooth®* Wireless Technology phone is connected.

NOTICE

- The Auto Download feature will download mobile phone book entries every time the phone is connected. The download time may differ depending on the number of saved phone book entries and the communication state.
- When downloading a phone book, first check to see that your mobile phone supports the phone book download feature.

Audio Streaming

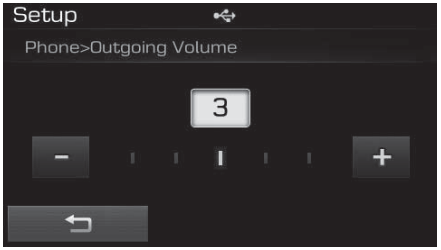
Press the SETUP key▶Select [Phone]▶Select [Audio Streaming]


Setup
Phone
2/3
Auto Download
Audio Streaming
Outgoing Volume

When Audio Streaming is turned on, you can play music files saved in your *Bluetooth®* Wireless Technology device from the car.

Outgoing Volume

Press the **SETUP** key▶Select [Phone]▶Select [Outgoing Volume]



Setup

Phone>Outgoing Volume

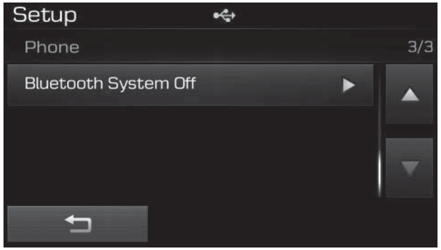
3

Use the **−**, **+** buttons to adjust the outgoing volume level.

Turning Bluetooth System Off

Press the **SETUP** key▶Select [Phone]▶Select [Bluetooth System Off]

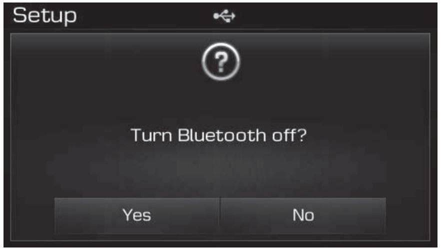
Once *Bluetooth*® Wireless Technology is turned off, *Bluetooth*® Wireless Technology related features will not be supported within the audio system.



Setup

Phone 3/3

Bluetooth System Off



Setup

Turn Bluetooth off?

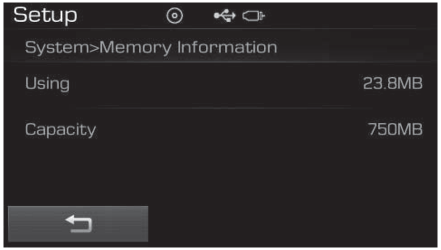
NOTICE

To turn Bluetooth® Wireless Technology back on, go to **SETUP**▶[Phone] and press "Yes".

System Setting

Memory Information

Press the SETUP key▶Select [System]▶Select [Memory Information]



System>Memory Information

Using 23.8MB

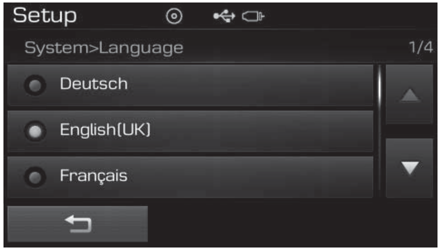
Capacity 750MB

This feature displays information related to system memory.

1) Using : Displays capacity currently in use
2) Capacity : Displays total capacity

Language

Press the SETUP key▶Select [System]▶Select [Language]



This feature is used to change the system and voice recognition language.

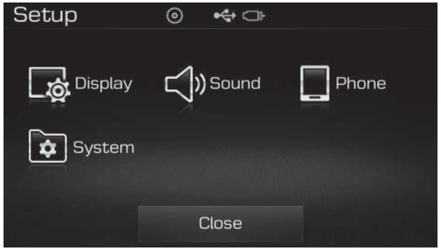
If the language is changed, the system will restart and apply the selected language.

SETUP

(for *Bluetooth*® Wireless Technology equipped model)

Starting Mode

Press the SETUP key to display the Setup screen.

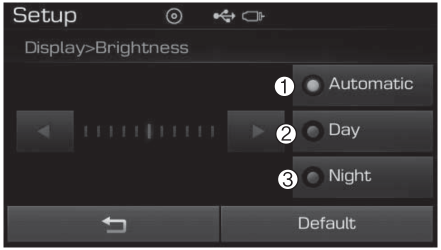

Setup
Display
Sound
Phone
System
Close

You can select and control options related to [Display], [Sound], [Phone] and [System].

Display Settings

Adjusting the Brightness

Press the SETUP key▶Select [Display]▶Select [Brightness]


Setup
Display>Brightness
①
Automatic
②
Day
③
Night
Default

Use the ◀ , ▶ buttons to adjust the screen brightness or set the Brightness on Automatic, Daylight, or Night mode.

Press the Default button to reset.

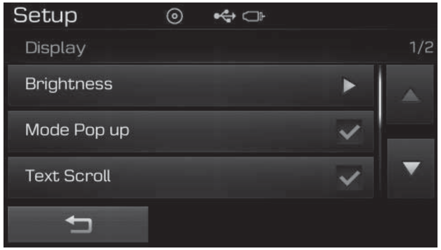
1) Automatic : Adjusts the brightness automatically

2 Day : Always maintains the brightness on high

3) Night: Always maintains the brightness on low

Mode Pop up

Press the SETUP key▶Select [Display]▶Select [Mode Pop up]


Setup
Display
1/2
Brightness ▶
Mode Pop up ✓
Text Scroll ✓

This feature is used to display the Mode Pop up screen when entering radio and media modes.

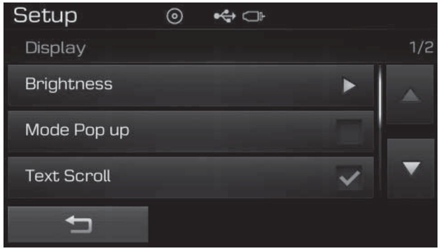
When this feature is turned on, pressing the RADIO or MEDIA key will display the Mode Pop up screen.

NOTICE

The media Mode Pop up screen can be displayed only when two or more media modes have been connected.

Text Scroll

Press the `SETUP` key▶Select [Display]▶Select [Text Scroll]


Setup
Display
1/2
Brightness

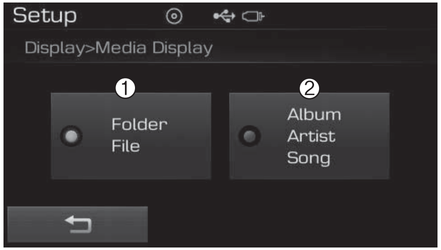
☐ Mode Pop up
☑ Text Scroll

This feature is used to scroll text displayed on the screen when it is too long to be displayed at once.

When turned on, the text is repeatedly scrolled. When turned off, the text is scrolled just once.

MP3 Information Display

Press the `SETUP` key▶Select [Display]▶Select [Media Display]


Setup
Display>Media Display
①
②
Folder
File
Album
Artist
Song

This feature is used to change the information displayed within USB and MP3 CD modes.

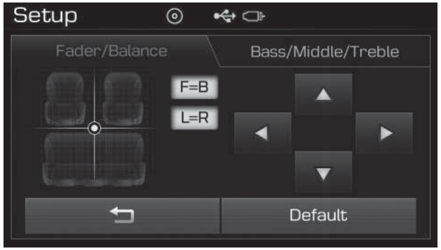
1) Folder File : Displays file name and folder name

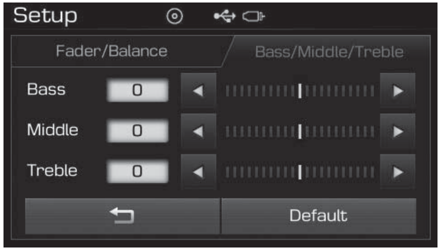
2) Album Artist Song : Displays album name/artist name/song

Sound Settings

Sound Settings

Press the `SETUP` key▶Select [Sound]▶Select [Sound Setting]


Setup
Fader/Balance
Bass/Middle/Treble
F=B
L=R
Default


Setup
Fader/Balance
Bass/Middle/Treble
Default

Bass 0
Middle 0
Treble 0

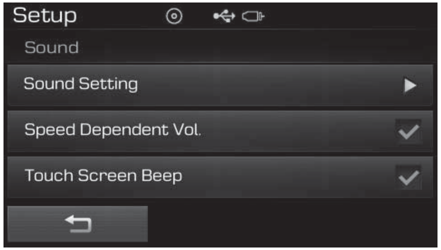
Use the ◀, ▶, ▲, ▼ buttons to adjust the Fader/Balance settings.

Use the ◀, ▶ buttons to adjust the Bass/Middle/Treble settings.

Press the Default button to reset.

SDVC (Speed Dependent Volume Control)

Press the SETUP key ▶ Select [Sound] ▶ Select [Speed Dependent Vol.]



Setup

Sound

Sound Setting ▶

Speed Dependent Vol. ✓

Touch Screen Beep ✓

The volume level is controlled automatically according to the vehicle speed. SDVC can be set by selecting from On/Off.

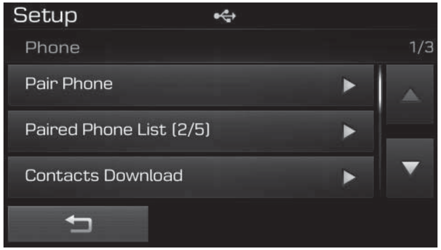
Touch Screen Beep

Press the SETUP key ▶ Select [Sound] ▶ Select [Touch Screen Beep]

Bluetooth® Wireless Technology Setting

Pairing a New Device

Press the SETUP key ▶ Select [Phone] ▶ Select [Pair Phone]

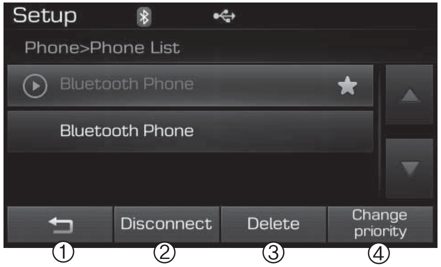

Setup
Phone
1/3
Pair Phone
Paired Phone List (2/5)
Contacts Download

Bluetooth® Wireless Technology devices can be paired with the audio system.

For more information, refer to the "Pairing through Phone Setup" section within *Bluetooth®* Wireless Technology.

Viewing Paired Phone List

Press the SETUP key ▶ Select [Phone] ▶ Select [Paired Phone List]


Setup
Phone>Phone List
Bluetooth Phone
Bluetooth Phone
Disconnect
Delete
Change priority
①
②
③
④

This feature is used to view mobile phones that have been paired with the audio system. Upon selecting a paired phone, the setup menu is displayed.

For more information, refer to the "Setting *Bluetooth®* Wireless Technology Connection" section within *Bluetooth®* Wireless Technology.

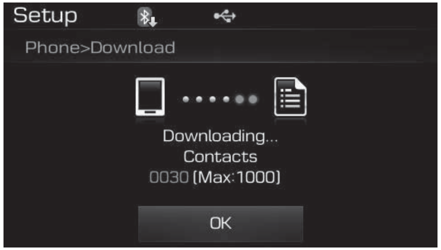
1) ↩ : Moves to the previous screen
2) Connect/Disconnect Phone : Connect/ disconnects currently selected phone
3) Delete : Deletes the currently selected phone
4) Change Priority : Sets currently selected phone to highest connection priority

NOTICE BEFORE DOWNLOADING CONTACTS

- Only contacts within connected phones can be downloaded. Also check to see that your mobile phone supports the download feature.
- To learn more about whether your mobile phone supports contacts downloads, refer to your mobile phone user's manual.
- The contacts for only the connected phone can be downloaded. Before downloading, check to see whether your phone supports the download feature.

Downloading Contacts

Press the **SETUP** key▶Select [Phone]▶Select [Contacts Download]


Setup
Phone>Download
OK

Downloading...
Contacts
0030 [Max:1000]

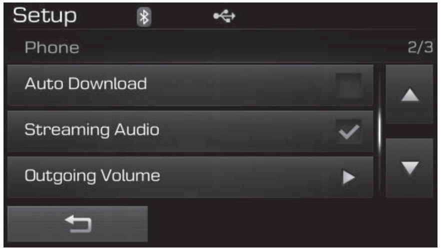
The contacts is downloaded from the mobile phone and the download progress is displayed.

NOTICE

- Up to 1,000 contacts entries can be copied into car contacts.
- Up to 1,000 contacts entries can be saved for each paired device.
- Upon downloading contacts data, previously saved contacts data will be deleted. However, contacts entries saved to other paired phones are not deleted.

Auto Download (Contacts)

Press the **SETUP** key▶Select [Phone]▶Select [Auto Download]


Setup
Phone
2/3
Auto Download
Streaming Audio ✓
Outgoing Volume ▶

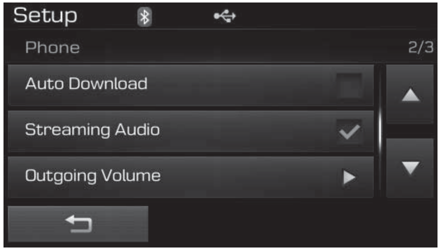
This feature is used to automatically download mobile contacts entries once a *Bluetooth*® Wireless Technology phone is connected.

NOTICE

- The Auto Download feature will download mobile contacts entries every time the phone is connected. The download time may differ depending on the number of saved contacts entries and the communication state.
- When downloading a contacts, first check to see that your mobile phone supports the contacts download feature.

Streaming Audio

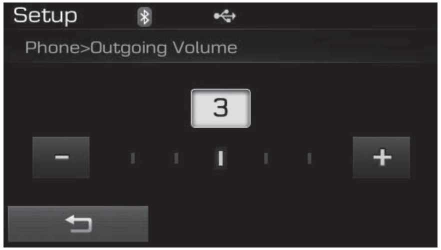
Press the **SETUP** key▶Select [Phone]▶Select [Streaming Audio]


Setup
Phone
2/3
Auto Download
Streaming Audio ✓
Outgoing Volume ▶

When Streaming Audio is turned on, you can play music files saved in your *Bluetooth*® Wireless Technology device from the car.

Outgoing Volume

Press the **SETUP** key ▶ Select [Phone] ▶ Select [Outgoing Volume]

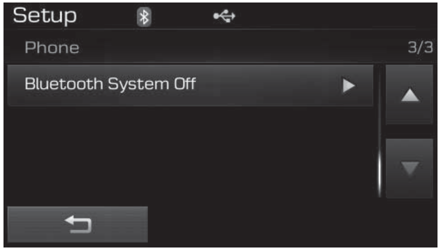

Setup
Phone>Outgoing Volume
3
−
+

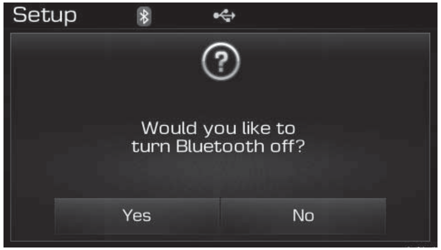
Use the **−**, **+** buttons to adjust the outgoing volume level.

Turning Bluetooth System Off

Press the **SETUP** key ▶ Select [Phone] ▶ Select [Bluetooth System Off]

Once *Bluetooth*® Wireless Technology is turned off, *Bluetooth*® Wireless Technology related features will not be supported within the audio system.


Setup
Phone
3/3
Bluetooth System Off


Setup
?

Would you like to turn Bluetooth off?

Yes
No

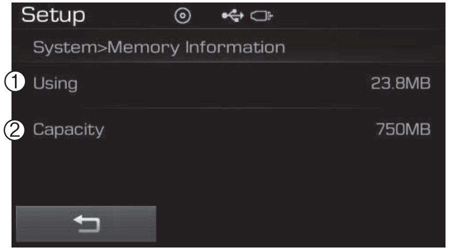
NOTICE

To turn Bluetooth® Wireless Technology back on, go to **SETUP** ▶ [Phone] and press "Yes".

System Setting

Memory Information

Press the **SETUP** key ▶ Select [System] ▶ Select [Memory Information]


Setup
System>Memory Information
①
Using
23.8MB
②
Capacity
750MB

This feature displays information related to system memory.

1) Using : Displays capacity currently in use
2) Capacity : Displays total capacity

REAR VIEW CAMERA (if equipped)

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

⚠ CAUTION

The rear view camera has been equipped with an optical lens to provide a wider range of vision and may appear different from the actual distance. For safety, directly check the rear and left/right sides.

APPENDIX

Name		Description
Monday		Monday
Tuesday		Tuesday
Wednesday		Wednesday
Thursday		Thursday
Friday		Friday
Saturday		Saturday
Sunday		Sunday
Use tune knob		Use tune knob
Volume		Volume
Max		Volume maximum
Min		Volume minimum
AST (Auto store)		Automatically selects and saves channels
No Media		Empty media file in CD or USB
No File		Empty media file in CD or USB
Empty File		Empty media file in MY MUSIC
Info (Information)		Information of playing files
Artist		Artist name, MP3/CD file currently being played
Title		Song name, MP3/CD file currently being played
Album		Album name, MP3/CD file currently being played
Genres		"Genres" is keyword for searching mode of playlists for iPod
Composers		"Composers" is filtering keyword for searching mode of playlists for iPod

Name		Description
Playlists		"Playlists" is filtering keyword for searching mode of playlists for iPod
Songs		"Songs" is filtering keyword for searching mode of playlists for iPod
Audiobooks		"Audiobooks" is filtering keyword for searching mode of playlists for iPod
Podcasts		"Podcasts" is filtering keyword for searching mode of playlists for iPod
RPT (Repeat)		Audio play mode of Reapeat
FLD RPT (Folder Repeat)		Audio play mode of Folder Reapeat
RDM (Random)		Audio play mode of Random
FLD RDM (Folder Random)		Audio play mode of Folder Random
ALL RDM (All Random)		Audio play mode of All Random
COPY		Copy MP3 file to flash memory for MY MUSIC
Cancel copy		Cancel copy mode
File copied		Completed File copy
Free		Free size of memory
Copy failed		Copy failed
Search		Search files
Loading CD		Loading CD
Reading CD		Reading CD
Reading Error		Reading Error
Mechanism Error		Mechanism Error

Name		Description
Ejecting CD		Ejecting CD
Audio CD		Audio CD
Track		Audio CD song order
Reading Media		Reading Media
Not supported		Not supported file format
Empty iPod		Empty iPod, iPod don't have playable data
Communication Error		Communication error between audio and iPod or usb
Delete		Delete the paired phone or files in MY MUSIC
Del All		Delete all files
Del Sel		Select files to delete
Return		Return menu
List		List files or paired phones
Select Files		Select Files
Memory is full, Delete files		Memory is full, Delete files
Over 6000 files. can copied not be copied		Over 6000 files. can not be
Over 1000 same files can not be copied		Over 1000 same files can not be copied
System will automatically switch off after 1 hour with ignition off		System will automatically switch off after 1 hour with ignition off
Battery discharge Start the engine		Battery discharge Start the engine

Name		Description
Setup		Setup
Display		Setup display mode
Mode Pop up		This function is used to select popup menu on or off
Scroll text		This function is used to display characters longer than the LCD text displays
Song Info		Setup display information being played
Folder/File		Display Folder/file name, file currently being played
Album/Artist/Song		Display Album/Artist/Song name, file currently being played
Sound		Setup sound mode
Audio Settings		Setup Audio settings that consist BASS, Middle, Treble, Fader and Balance
PowerBass		This function is used to improve bass sound quality
Speed Dependent Vol		Automatically adjust the volume according to the car speed
Volume Dialogue		Adjust volume level of Dialogue
Bass		Bass is sound of low frequency. It can be adjusted sound by user
Middle		Middle is sound of middle frequency. It can be adjusted sound by user

Name		Description
Treble		Treble is sound of high frequency. It can be adjusted sound by user
Fader		Fader is sound position between FRONT and REAR. It can be adjusted sound by user
Balance		Balance is sound position between Right and Left. It can be adjusted sound by user
Default		This function is used to initialize setting value
Clock		Setup time
Clock Settings		Enters time advanced settings
Day Settings		Enters day advanced settings
Time Format		Refer to the time display The time can be displayed in 12 hours or 24 hours
Clock Disp.(Pwr Off)		This function is used to select clock display mode in power off
Automatic RDS Time time automatically.		This function is used to set the RDS
System		Setup system or system information
Memory Information		Display used memory size
VRS Mode		Setup Voice command mode
Normal		Normal mode. This function is used to set default value of voice recognition factor
Expert		Expert mode. This function is used to set exercised value of voice recognition factor
Language		This function is used to select user language
Deutsch		Deutsch
English (UK)		English (UK)
Français		French
Italiano		Italian
Español		Spanish
Nederlands		dutch
Svenska		swedish
Dansk		Danish
Русский		Russian
Polski		Polish
Türkçe		Turkish
The system will be rebooted		The system will be rebooted
Please change language when ignition ON		Please change language when ignition ON
Bluetooth not ready Please wait		You can use BT System for a moment Because BT system is being initialized
Add a new Bluetooth device from your phone		Add a new *Bluetooth*® Wireless Technology device from your phone
Processing Bluetooth Please try later		You can use BT System for a moment Because BT system is being initialized or processing other command

Name		Description
Incoming Call		Receiving phone
Call Ended		Call Ended
Call Rejected		When there is unwanted call, You push the button on the steering remote controller
Unknown		"Unknown" mean Headunit or phone don't have any information about phone number
Call is not possible		Call is not possible
MIC Mute		Microphone mute
Activate Bluetooth System?		Activate *Bluetooth®* Wireless Technology System
Bluetooth System activated		*Bluetooth®* Wireless Technology system activated
No phone paired. Pair a phone?		Empty phone paired. Pair a phone?
No connected phone. Connect a phone?		No connected phone. Connect a phone?
Phone book is empty. Download?		Phone book is empty
Available only when		This is a warning, Do not enter the MENU about BT Setup. When vehicle is moving
Listening...		Listen to instruction of audio
Phone book Download vehicle is stationary		Downloading phone book from phone paired to audio
Auto Download		After pairing phone, audio system automatically download phone book

Name		Description
Audio Streaming		After pairing phone, audio system can support *Bluetooth®* Wireless Technology streaming mode
Outgoing Volume		Set outoging volume "0 ~ 5"
Bluetooth System Off		Turn off *Bluetooth®* Wireless Technology System
Bluetooth System ON		Turn on *Bluetooth®* Wireless Technology System
Device :		*Bluetooth®* Wireless Technology device name
Passkey		Passkey for pairing a phone
Pairing complete		Pair a *Bluetooth®* Wireless Technology phone to the audio
Pairing failed		Audio & Phone connection have failed
Already 5 devices paired. Delete a paired phone?		All 5 phones have already been paired. Delete a previously paired phone to pair new phone
Connection complete		Audio & Phone connection have succeed
Connection failed. Retry?		Audio & Phone connection have failed
Priority changed		Changed priority about the registered phones
Overwrite previous phone book?		Overwrite previous phone book information

Name		Description
Phone does not support Phone book download		Phone does not support Phone book download
No connected Bluetooth device		There are phone in the connection list
Phone does not support Bluetooth audio		But it was actually not connected BT pairing
Downloading stopped		Downloading stopped

FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.