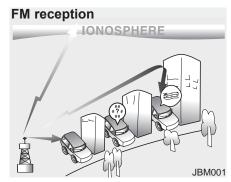
Model: AC110GFEE

How vehicle audio works

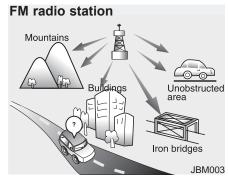


AM and FM radio signals are broadcast from transmitter towers located around your city. They are intercepted by the radio antenna on your vehicle. This signal is then received by the radio and sent to your vehicle speakers.

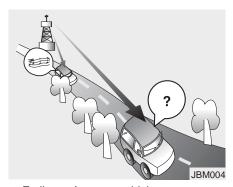
When a strong radio signal has reached your vehicle, the precise engineering of your audio system ensures the best possible quality reproduction. However, in some cases the signal coming to your vehicle may not be strong and clear. This can be due to factors, such as the distance from the radio station, closeness of other strong radio stations or the presence of buildings, bridges or other large obstructions in the area.

AM reception IONOSPHERE

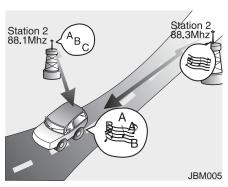
AM broadcasts can be received at greater distances than FM broadcasts. This is because AM radio waves are transmitted at low frequencies. These long, low frequency radio waves can follow the curvature of the earth rather than travelling straight out into the atmosphere. In addition, they curve around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



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 at short distances from the station. Also, FM signals are easily affected by buildings, mountains, or other obstructions. These can result in certain 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:



- 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.



- Station Swapping As a 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.

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, use the cellular phone at a place as far as possible from the audio equipment.

A 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.

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.

(Continued)

(Continued)

- Please refrain from use if the screen is blank or no sound can be heard as these signs may indicate product malfunction.
 Continued use in such conditions could lead to accidents(fires, electric shock) or product mal-
- functions.

 Do not touch the antenna during thunder or lightning as such acts may cause electric shock.
- Do not stop or park in parkingrestricted areas to operate the product. Such acts could lead to traffic accidents.
- Use the system with the vehicle ignition turned on. Prolonged use with the ignition turned off could result in battery discharge.

A CAUTION

- Operating the device while driving could lead to accidents due to a lack of attention to external surroundings. 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)

(Continued)

- If you want to change the position of device installation, please inquire with your place of purchase or service maintenance center. Technical expertise is required to install or disassemble the device.
- Turn on the car ignition before using this device. Do not operate the audio system for long periods of time with the ignition turned off as such operations may lead to battery discharge.
- Keep the device safe from severe shock or impact. Direct pressure onto the front side of the monitor may cause damage to the LCD or touch screen.

(Continued)

(Continued)

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

■ CD Player (except EUROPE) : AC110GFEE



SYSTEM CONTROLLERS AND FUNCTIONS

Display and settings may differ depending on the selected audio.

Audio Head Unit



(1) (EJECT) Ejects the disc.

(2) RADIO

Converts to Radio(FM/AM) mode. Each time the key is pressed,the mode is changed in order of FM1 → FM2 → AM.

(3) MEDIA

Start Media mode

Each time the key is pressed, the mode is changed in order of CD, USB(iPod) AUX, My Music, BT Audio.

(4) PHONE

Converts to Phone mode

*When a phone is not connected, the connection screen is displayed.

(5) PWR/VOL knob

Power: Press to turn power on/off.

Volume : Turn left/right to control volume.

(6) SEEK \\ TRACK \\

When pressed shortly(under 0.8 seconds)

- Radio mode : plays previous/next frequency.
- Media (CD / USB / iPod / My Music) modes : changes the track, Song(file)

When pressed and held (0.8 seconds)

- 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.

(7) ✓ FOLDER ^

CD / USB / MP3 modes : searches folders.



(8) DISP

Turns the monitor display on/off.

(9) MUTE

Mutes audio volume.

(10) SCAN

Radio Mode : previews all receivable broadcasts for 5 seconds each

Media (CD / USB / iPod / My Music) modes : previews each song (file) for 10

seconds each.

(11) **SETUP**

Converts to Setup mode.

(12) TUNE knob

Radio mode : turn to change broadcast frequencies.

Media (CD / USB / iPod / My Music) modes : turn to search tracks / channels / files.

(13) RESET

Forced system termination and system restart.

Steering wheel remote controller



(1) VOLUME Used to control volume.

(2) SEEK

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.

(3) MODE

Each time this key is pressed, the mode is changed in order of FM1 → FM2 → FMA → AMA → 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.



(4)

Ends phone call

(5)

When pressed shortly (under 0.8 seconds)

- 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)

(6) (if equipped)

When pressed shortly (under 0.8 seconds)

- Starts voice recognition
- When selecting during a voice prompt, stops the prompt and converts to voice command waiting state

When pressed and held (over 0.8 seconds)

- Ends voice recognition

RADIO MODE

- AC110GFEE

Basic Mode Screen





- (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

Switching to Radio Mode

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



Searching Radio Frequencies

Using Seek

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



Press the 1 ~ 6 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 [1] ~ [6] preset buttons (over 0.8 seconds) to save the current frequency to the selected preset.

Auto Store

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

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 the SCAN key will cancel the scan oper-ation.

MEDIA MODE

Switching to Media Mode

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



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.



AUDIO CD MODE

Basic Mode Screen



<for RDS model>



(1) Mode
Displays currently operating mode

(2) Operation State From Repeat/Random(Shuffle)/ Scan, displays the currently operating function

(3) Track Info
Displays information about the current track

(4) Play/Pause Changes the play/pause state

(5) Play Time Displays the current play time

(6) Info
Shows detailed information about the current track

(7) Random(Shuffle)
Turns the Random(Shuffle) feature on/off

(8) Repeat Turns the Repeat feature on/off

(9) List Moves to the list screen

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 TRACK key to move to the previous or next track.

* NOTICE

- Pressing the TRACK key after the track has been playing for 2 seconds will start the current track from the beginning.
- Pressing the 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 key (over 0.8 seconds) 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 **line** (**lnfo**) button to display details about the current disc.

Random(Shuffle)

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

Press the 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.



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

Basic Mode Screen





(1) Mode
Displays currently operating mode.

(2) Operation State
From Repeat/Random(Shuffle)/ Scan,
displays the currently operating function

(3) File Index
Displays the current file number

(4) File Info
Displays information about the current file

(5) Play/Pause Changes the play/pause state

(6) Play Time Displays the current play time

(7) Info Shows detailed information about the current file (8) Random(Shuffle)
Turns the Random(Shuffle) feature on/off

(9) Repeat Turns the Repeat feature on/off

(10) Copy Copies the current file into My Music

(11) List Moves to the list screen

Using MP3 CD Mode

Playing/Pausing MP3 Files

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



<for RDS model>



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 TRACK key to move to the previous or next file.

* NOTICE

- Pressing the SEEK key after the file has been playing for 2 seconds will start the current file from the beginning.
- Pressing the YTRACK 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.



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

Rewinding / Fast-forwarding Files

While playing, press and hold the SEEK 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 VFOLDER (VFOLDER) 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 (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

Basic Mode Screen





(1) Mode
Displays currently operating mode

(2) Operation State
From Repeat/Random(Shuffle)/ Scan,
displays the currently operating function

(3) File Index
Displays the current file number

(4) File Info
Displays information about the current file

(5) Play/Pause Changes the play/pause state

(6) Play Time Displays the current play time

(7) Info
Displays detailed information for the current file

(8) Random(Shuffle)
Turns the Random(Shuffle) feature on/off

(9) Repeat Turns the Repeat feature on/off

(10) Copy Copies the current file into My Music

(11) List Moves to the list screen

Using USB Mode

Playing/Pausing USB Files

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



<for RDS model>



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 VSEEK keys to move to the previous or next file.

* NOTICE

- Pressing the TRACK key after the file has been playing for 2 seconds will start the current file from the beginning.
- Pressing the 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.



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

Rewinding / Fast-forwarding Files
While playing, press and hold the

SEEK 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 VFOLDER (VFOLDER)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 ______(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 (Icon) : Repeats the current file.
- Repeat Folder (Icon): 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

Basic Mode Screen



<for RDS model>



(1) Mode

Displays currently operating mode

(2) Operation State

From Repeat/Random(Shuffle), displays the currently operating function

(3) Song Index

Displays the current song/total number of songs

(4) Song Info

Displays information about the current song

(5) Play/Pause

Changes the play/pause state

(6) Play Time

Displays the current play time

(7) Random(Shuffle)

Turns the Random(Shuffle) feature on/off

(8) Repeat

Turns the Repeat feature on/off

(9) List

Moves to the list screen

Using iPod Mode

Playing/Pausing iPod Songs

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



<for RDS model>



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

* NOTICE

 iPods with unsupported communication protocols may not properly operate in the audio system.

Changing Songs

Press the Vacable Name of the previous or next song.

* NOTICE

- Pressing the SEEK key after the song has been playing for 2 seconds will start the current song from the beginning.
- Pressing the YTRACK 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 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.



<for RDS model>



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 features.





- 1. Displays the play screen
- 2. Home : Moves to the iPod root category screen
- 3. Noves to the previous category

* NOTICE

- If the search mode is accessed while playing a song, the most recently searched category is displayed.
- 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.



<for RDS model>



Random(Shuffle)

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

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

- Random(Shuffle) Album : Shuffle Album plays album 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.



<for RDS model>



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]



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.

* NOTICE

- 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.

MY MUSIC MODE

Basic Mode Screen



<for RDS model>



(1) Mode

Displays currently operating mode

(2) Operation State
From Repeat/Random(Shuffle

From Repeat/Random(Shuffle)/ Scan, displays the currently operating function

(3) File Index
Displays the current file/total number of files

(4) File Info
Displays information about the current file

(5) Play/Pause Changes the play/pause state

(6) Play Time Displays the current play time

(7) Info
Displays detailed information for the current file

(8) Random(Shuffle)
Turns the Random(Shuffle) feature on/off

(9) Repeat Turns the Repeat feature on/off

(10) Delete Deletes the current file

(11) List Moves to the list screen

Using My Music Mode

Playing/Pausing My Music Files



<for RDS model>



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 Vacable Name of the previous or next file.

* NOTICE

- Pressing the TRACK key after the file has been playing for 2 seconds will start the current file from the beginning.
- Pressing the 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.



<for RDS model>



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

Rewinding / Fast-forwarding Files

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

Scan(for RDS model)

Press and hold the SCAN key (over 0.8 seconds) to play the first 10 seconds of each 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.



<for RDS model>



Info

Press the [1] (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.



<for RDS model>



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





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) Sellect All: Selects all files
- (3) Unsellet 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]

* NOTICE - USING THE Bluetooth® Wireless Technology Audio Mode

- Bluetooth® Wireless Technology Audio Mode can be used only when a Bluetooth® Wireless Technology phone has been connected.
- Bluetooth® Wireless Technology Audio Mode will not be available when connecting mobile phones that do not support this feature.
- While *Bluetooth*® Wireless Technology Audio is playing, if the *Bluetooth*® Wireless Technology phone is connected, then the music will also stop.
- Moving the Track up/down while playing Bluetooth® Wireless Technology audio mode may result in pop noises in some mobile phones.
- Bluetooth® Wireless Technology streaming audio may not be supported in some mobile phones.
- When returning to Bluetooth® Wireless Technology Audio mode after ending a call, the mode may not automatically restart in some mobile phones.
- Receiving an incoming call or making an outgoing call while playing Bluetooth® Wireless Technology Audio may result in audio interference.

Bluetooth® WirelessTechnology AUDIO MODE

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 button to pause and press button to play.

* NOTICE

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

Changing Files

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

Setting Connection

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

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.

A 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.

(Continued)

(Continued)

- 2. Turn off the *Bluetooth*® Wireless Technology feature in your car audio system.
- 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.

(Continued)

- 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.
- Bluetooth® Wireless Technology features supported within the vehicle are as follows. Some features may not be supported depending on your Bluetooth® Wireless Technologydevice.
 - 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
- Phone book/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.

(Continued)

(Continued)

- Only one Bluetooth® Wireless Technology device can be connected at a time.
- Other devices cannot be paired while a Bluetooth® Wireless Technologydevice is already connected.
- When a Bluetooth® Wireless Technology device is being connected, the connection process cannot be canceled.
- 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.)

(Continued)

(Continued)

- 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 Device

(except EUROPE)

What is *Bluetooth®* Wireless Technology Pairing?

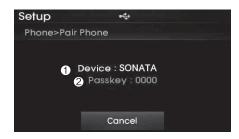
Pairing refers to the process of synchronizing your *Bluetooth®* Wireless Technology phone or device with the car audio system for connection. Pairing is necessary to connect and use the *Bluetooth®* Wireless Technology feature.

Pairing PHONE Key / Key on the Steering wheel Remote Controller

When No Devices have been Paired

- Press the PHONE key or the key on the steering wheel remote controller. The following screen is displayed.
- 2. Press the ox button to enter the Pair Phone screen.





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



• If Bluetooth® Wireless Technology devices are paired but none are currently connected, pressing the PHONE key or the key on the steering wheel 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.

- 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 Connect button.



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]



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.



* NOTICE

When a device is currently connected, even if you change the priority to a different device, the currently connected phone will always be set as the highest priority.

Disconnecting a Device

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



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]



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

- 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 contacts 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]



- (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.



- (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

- 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



- 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]



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]



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

- 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.

SETUP (except EUROPE) - AC110GFEE

Starting Mode

Press the SETUP key to display the Setup screen.



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]



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) Daylight : Always maintains the brightness on high
- (3) Night: Always maintains the brightness on low

Pop-up Mode

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



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.

Text Scroll

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



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]





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.]



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

Touch Screen Beep

Press the SETUP key ▶ Select [Sound] ▶ Select [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) 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 DOWN-LOADING 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]



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]



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]



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]



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.





* 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]



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.

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.

A 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
12hr	12 Hour
24hr	24 Hour
AST(A.Store)	Automatically selects and saves
	channels
AMA	AM Radio (Auto store)
AUX	External Audio mode
Bass	Deep sound
Treble	High sound
BT Audio	Bluetooth® Wireless Technology
	Audio
FMA	FM Radio (Auto store)
Power Bass	This is a sound system feature
	that provides live bass.
Power Treble	This is a sound system feature
	that provides live treble.
Preset	Saved radio frequency
RDS Search	Radio Data System Search
TA Off	Traffic Announcement

Appendix Homologation

FCC Compliance Statement.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

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

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

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

Do Not



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

Be sure

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

IC Compliance Statement.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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

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