

■ CD Player :

AC100A5KN,AC180A5KN,AC180A5AN,AC181A5A



AC110A5KN,AC1B2A5KN,AC1B0A5AN,AC1B1A5



SYSTEM CONTROLLERS AND FUNCTIONS

Audio Head Unit



1. **EJECT**

- Ejects the disc.

2. **RADIO**

- Changes to FM/AM/XM mode.
- Each time the key is pressed, **the mode is changed** in order of FM1 → FM2 → AM → XM1 → XM → XM3
- ✦ In Setup>Display, the radio 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** ~ **6** to select **the desired mode**.

3. **MEDIA**

- Changes to CD, USB, **iPod, AUX, My Music, BT Audio**.
- Each time the key is pressed, the mode **is changed** in order of CD, USB, **iPod, AUX, My Music, BT Audio**.
- ✦ 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**

- Operates Phone Screen
- ✦ 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 (under 0.8 seconds): Moves to next or previous song(file)
 - Press and hold the key (over 0.8 seconds): **Rewinds** or **fast-forwards** the

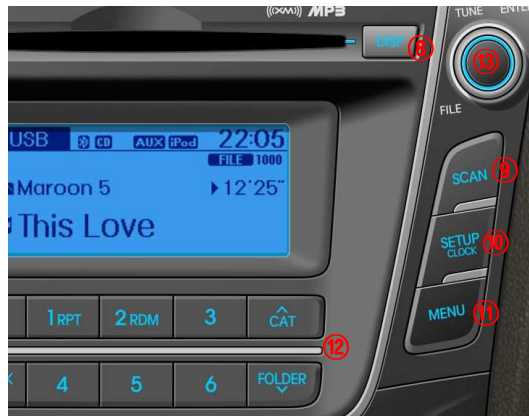
current song(file)

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
- In the Radio, Media, Setup, and Menu pop up screen, the number menu is selected.



8. **DISP**

- Each time the button is shortly pressed (under 0.8 seconds), sets 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. **SCAN**

- Radio Mode
 - Shortly press the key (under 0.8 seconds): Previews each broadcast for 5 seconds each
 - Press and hold the key (over 0.8 seconds): Previews the broadcasts saved in Preset **1** ~ **6** for 5 seconds each.

- * Press the **SCAN** key again to continue listening to the current **frequency**.
- * XM Radio does not support the Preset scan feature.
- CD, USB, iPod mode
 - Shortly press the key (under 0.8 seconds): 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 (under 0.8 seconds) : Moves to the Display, Sound, Phone, System setting modes

11. **MENU**

- **Displays menus for the current mode.**

12. **CAT FOLDER**

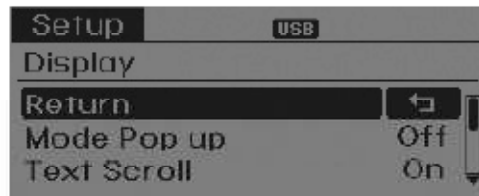
- Radio Mode
 - XM RADIO : Category Search
- MP3, CD, USB mode : Folder Search
- iPod mode: Moves to parent folder
- * May differ depending on the selected audio.

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.
- Moves focus in all selection menus and selects menus

DISPLAY SETTINGS

Press the **SETUP** key ▶ Select [Display] through **TUNE** knob or **1** key ▶ Select menu through **TUNE** knob



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'.



SOUND SETTINGS

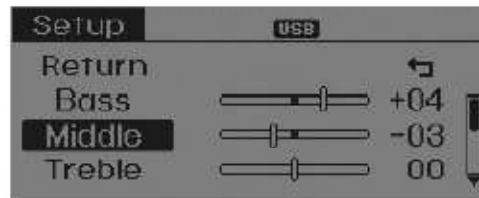
Press the **SETUP** key ▶ Select [Sound] through **TUNE** knob or **2** key ▶ Select menu through **TUNE** knob

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, repressing the **TUNE** knob will restore the parent menu.



Variable EQ (AC2B0IN Only)

This is a premium sound system feature in which the acoustical mode can be selected according to musical preferences.

Select [Variable EQ] ▶ Set menu through **TUNE** knob

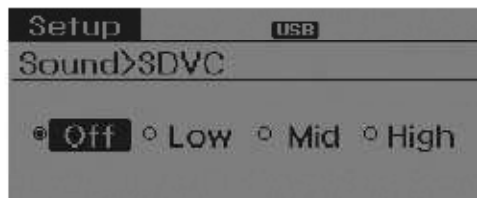
- Innocente(Normal) : Natural sound, sound optimized for driver.
- Forza(Dynamic) : Powerful sound emphasizing bass, stereo sound.
- Concerto(Concert) : Sound similar to a concert or live hall
- * May differ depending on the selected audio.



Speed Dependent Volume Control

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

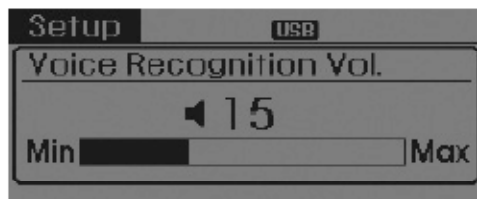
Select [SDVC] ▶ Set in 4 levels [Off/ Low/Mid/High] of  TUNE knob



Voice Recognition Volume

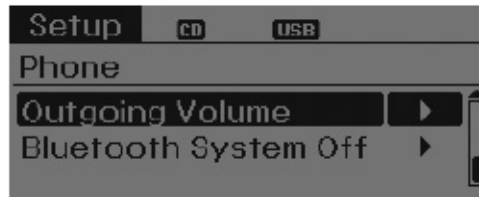
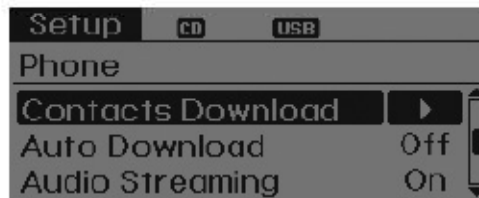
Adjusts **voice recognition volume**.

Select [Voice Recognition Vol.] ▶ Set volume of  TUNE knob



PHONE SETUP

Press the **SETUP** key ▶ Select [Phone] through **TUNE** knob or **3** key ▶ Select menu through **TUNE** knob

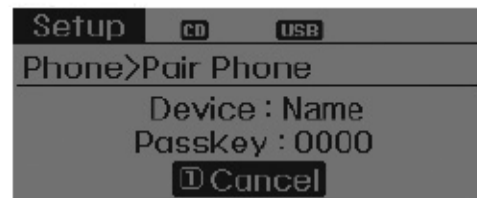


Pair Phone

⚠ CAUTION

• *To pair a Bluetooth® 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



- ① Search for device names as displayed on your mobile phone and connect.
 - ② 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.

③ Pairing completion is displayed.

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

* It is possible to pair up to five Bluetooth® 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.



Select the desired name to setup the selected phone.

• Connecting a phone

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



① Select a mobile phone that is not currently connected.

② Connect the selected mobile phone.

③ 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]



① Select the currently connected mobile phone.

② Disconnect the selected mobile phone.

③ 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

① Select [Priority].

② From the paired phones, select the phone desired for No.1 priority.

③ 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.

- The connected phone will automatically be changed to No. 1 priority.

• Delete

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


- ① Select the desired mobile phone.
 - ② Delete the selected mobile phone.
 - ③ 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® 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® mobile phone can be played through the audio system.

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


 **CAUTION**

- The Bluetooth® 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® handsfree call.

Select [Outgoing Volume] ▶ Set volume through  TUNE knob

- * Even while on a call, the volume can be changed by using the  key.

Bluetooth System Off

This feature is used when you do not wish to use the Bluetooth system.

Select [Bluetooth System Off] ▶ Set through  TUNE knob

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

Using the Bluetooth System

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

• Turning On Bluetooth® through the **PHONE** Key

Press the **PHONE** key ▶ Screen Guidance

※ Moves to the screen where Bluetooth® functions can be used and displays guidance.

• Turning On Bluetooth® through the **SETUP** Key

Press the **SETUP** key ▶ Select [Phone] through  TUNE knob or **3** key

① A screen asking whether to turn on Bluetooth® will be displayed.

② On the screen, select **YES** to turn on Bluetooth® and display guidance.

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

CAUTION

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

1) *Turn the Bluetooth® 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.*

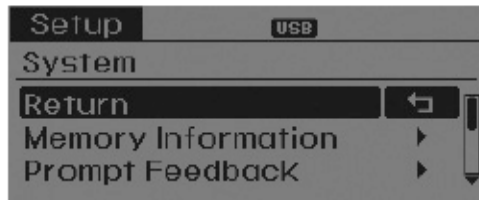
3) *Completely remove the mobile phone battery, reboot, and then try to connect again.*

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] through tune knob or **4** key ▶ Select menu through **TUNE** knob



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.



Prompt Feedback

This feature is used to change voice command feedback between Normal and Expert modes.

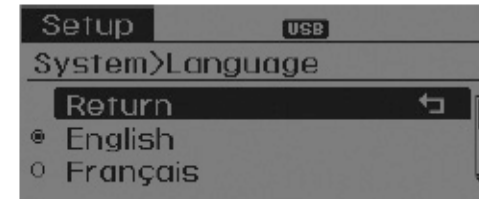
Select [Prompt Feedback] ▶ Set through **TUNE** knob

- Normal : This mode is for beginner users and provides detailed instructions during voice command operation.
- Expert : This mode is for expert users and omits some information during voice command operation. (When using Expert mode, guidance instructions can be heard through the [Help] or [Menu] commands.

Language

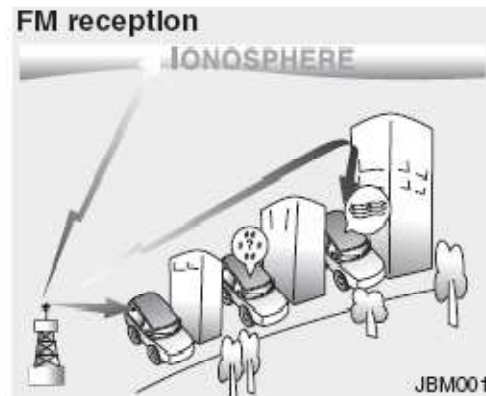
This menu is used to set the **display and voice recognition language**.

Select [Language] ▶ Set through **TUNE** knob



* The system will reboot after the language **is** changed.

* Language support by region
- **English, Français, Español**

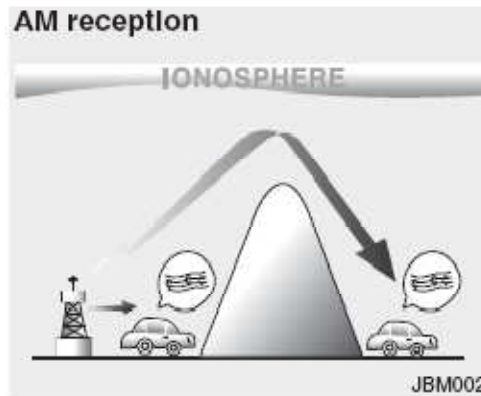


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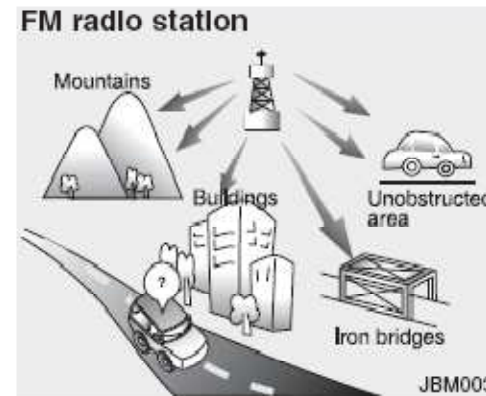
How vehicle audio works

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.

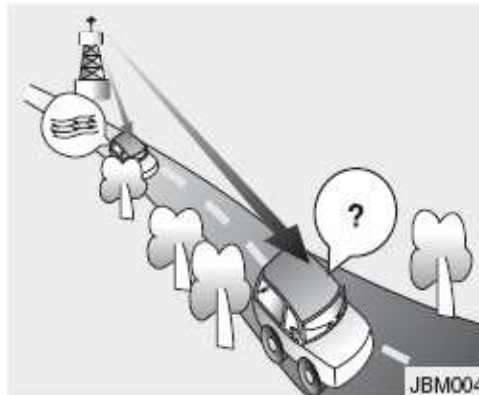
When a strong radio signal has reached your vehicle, the precise engineering of your audio system ensures the best possible quality reproduction. However, in some cases the signal coming to your vehicle may not be strong and clear. This can be due to **factors, such** as the distance from the radio station,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



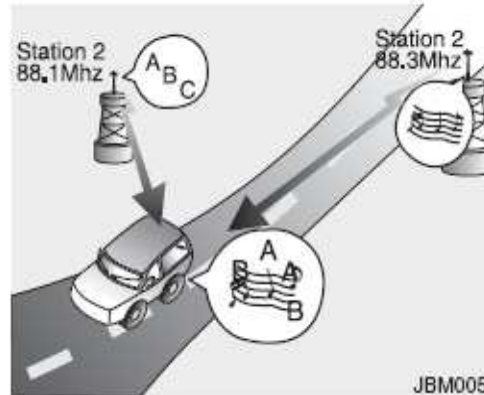
AM broadcasts can be received at greater distances than FM broadcasts. This is because AM radio waves are transmitted at low frequencies. These long, low frequency radio waves can follow the curvature of the earth rather than travelling straight out into the atmosphere. In addition, they curve around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

CAUTION

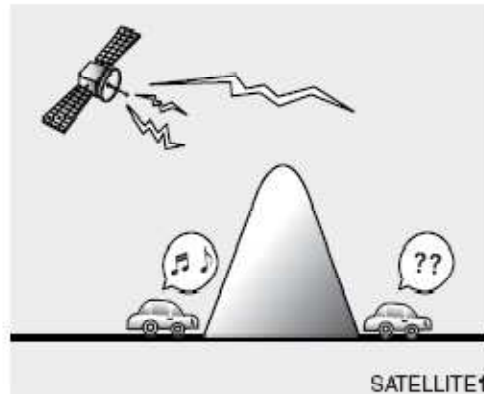
When using a communication system such as a cellular phone or a radio set inside the vehicle, a separate external antenna must be fitted. When a cellular phone or a radio set is used with an internal antenna alone, it may interfere with the vehicle's electrical system and adversely affect safe operation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

WARNING

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

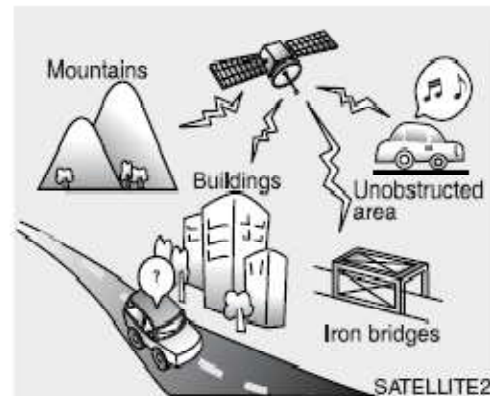
Satellite radio reception

You may experience difficulties in receiving XM™ satellite radio signals in the following situations.



- If you are driving in a tunnel or a covered parking area.
- If you are driving beneath the top level of a multi-level freeway.
- If **you are driving** under a bridge.
- If you are driving next to a tall vehicle (such as a truck or a bus) that blocks the signal.
- If you are driving in a valley where the surrounding hills or peaks block the signal from the satellite.

- If you are driving on a mountain road where the signal is blocked by mountains.



- If you are driving in an area with tall trees that block the signal (30 ft. /10m or more), for example on a road that goes through a dense forest.
- The signal can become weak in some areas that are not covered by the XM™ repeater network.

NOTE:

There may be other unforeseen circumstances leading to reception problems with the XM™ satellite radio signal.

RADIO : FM, AM OR XM

Changing RADIO mode (FM, AM or XM)



Press the **RADIO** key to change the mode in order of FM1→FM2→AM→XM1→XM2→XM3.

- When the power is off, press the **RADIO** key to turn on the audio system and receive radio broadcasts.
- [Mode Pop up] On state : Displays the change radio mode pop up screen. While the pop up screen is displayed, you can change the radio mode (FM1→FM2→AM→XM1→XM2→XM3) through the tune knob or **1** ~ **6** keys.

Adjust Volume

Turn the **TUNE** knob left/right to adjust the volume.

SEEK

Press the **RADIO** key ▶ **SEEK TRACK**

- 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 **RADIO** key ▶ **1** ~ **6**

- 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 **RADIO** key ▶ **SCAN**

- Shortly pressing the key (under 0.8 seconds): 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 (over 0.8 seconds): 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.

- FM : Changes by 200KHz
- AM : Changes by 10MHz

MENU

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



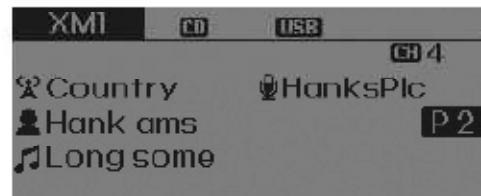
① A.Store

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.

XM RADIO

Using XM satellite Radio

Your vehicle is equipped with a 3 month complimentary period of XM Satellite Radio. XM provides access to over 130 channels of music, information, and entertainment programming.



SEEK

Press the **RADIO** key ▶ **SEEK TRACK**

- Shortly pressing the key (under 0.8 seconds): select previous or next channel.
- Pressing and holding the key (over 0.8 seconds): continuously move to previous or next channel.
- ※ If the "Category" icon is displayed, channels are changed within the current category.

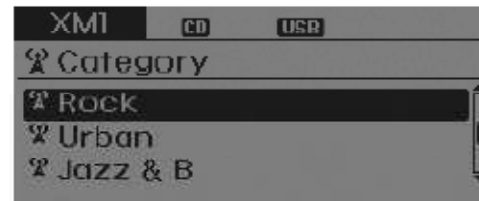
SCAN

Press the **RADIO** key ▶ **SCAN**

- Shortly pressing the key (under 0.8 seconds): Previews each broadcast for 5 seconds each
- ※ Press the **SCAN** key again to continue listening to the current frequency
- ※ If the "Category" icon is displayed, channels are changed within the current category.

Category

Press the **CAT FOLDER** key ▶ Set through the **TUNE** knob



- The display will indicate the category menus, highlight the category that the current channel belongs to.
- In the Category List Mode, press the **CAT FOLDER** key to navigate category list.
- Press the tune knob to select the lowest channel in the highlighted category.

- ※ If channel is selected by selecting category, then the "CATEGORY" icon is displayed at the top of the screen.

Preset

Press the **RADIO** key ▶ **1** ~ **6**

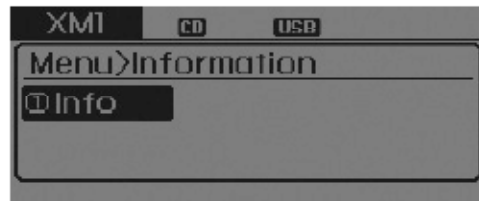
- Shortly pressing the key (under 0.8 seconds): Plays the frequency saved in the corresponding key.
- Pressing and holding the key (over 0.8 seconds): Pressing and holding the desired key from **1** ~ **6** will save the current broadcast to the selected key and sound a BEEP.

Tune

- Rotate **TUNE** knob : Changes the channel number or scrolls category list.
- Press **TUNE** knob : Selects the menu.

Menu

Select category menu through the
● TUNE knob ▶ Press the **MENU** key
▶ Select [ⓂInfo] through the ● TUNE knob or **1** key



Info (Information)

Displays the Artist/Song info of the current song.

Care of 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 manufacturing companies or making and recording methods. In such circumstances, continued use may cause malfunctions to your audio system.

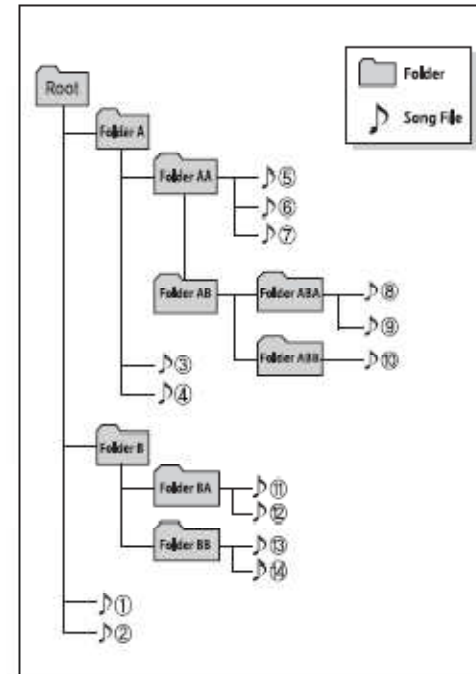
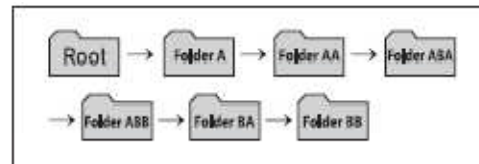
*** NOTICE - Playing an Incompatible Copy Protected Audio CD**

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 inability to properly play a copy protected CD may indicate that the CD is defective, not the CD player.

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.



**⚠ CAUTION IN USING
USB DEVICE**

- To use an external USB device, make sure the device is not connected when starting up the vehicle. Connect the device after starting up.
- If you start the engine when the USB device is connected, it may damage the USB device. (USB flashdrives are very sensitive to electric shock.)
- If the engine is started up or turned off while the external USB device is connected, the external USB device may not work.
- It may not play inauthentic MP3 or WMA files.
 - 1) It can only play MP3 files with the compression rate between 8Kbps~320Kbps.
 - 2) It can only play WMA music files with the compression rate between 8Kbps~320Kbps.
- Take precautions for static electricity when connecting or disconnecting the external USB device.

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- An encrypted MP3 PLAYER is not recognizable.
- Depending on the condition of the external USB device, the connected external USB device can be unrecognizable.
- When the formatted byte/sector setting of External USB device is not either 512BYTE or 2048BYTE, then the device will not be recognized.
- Use only a USB device formatted to FAT 12/16/32.
- USB devices without USB I/F authentication may not be recognizable.
- Make sure the USB connection terminal does not come in contact with the human body or other objects.
- If you repeatedly connect or disconnect the USB device in a short period of time, it may break the device.
- You may hear a strange noise when connecting or disconnecting a USB device.

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- If you disconnect the external USB device during playback in USB mode, the external USB device can be damaged or may malfunction. Therefore, disconnect the external USB device when the audio is turned off or in another mode. (e.g. Radio, XM or CD)
- Depending on the type and capacity of the external USB device or the type of the files stored in the device, there is a difference in the time taken for recognition of the device.
- Do not use the USB device for purposes other than playing music files.
- Playing videos through the USB is not supported.
- Use of USB accessories such as rechargers or heaters using USB I/F may lower performance or cause trouble.
- If you use devices such as a USB hub purchased separately, the vehicle's audio system may not recognize the USB device. In that case, connect the USB device directly to the multimedia terminal of the vehicle.

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- *If the USB device is divided by logical drives, only the music files on the highest-priority drive are recognized by car audio.*
- *Devices such as MP3 Player/ Cellular phone/Digital camera can be unrecognizable by standard USB I/F can be unrecognizable.*
- *Charging through the USB may not be supported in some mobile devices.*
- *USB HDD or USB types liable to connection failures due to vehicle vibrations are not supported. (I-stick type)*
- *Some non-standard USB devices (METAL COVER TYPE USB) can be unrecognizable.*
- *Some USB flash memory readers (such as CF, SD, micro SD, etc.) or external-HDD type devices can be unrecognizable.*
- *Music files protected by DRM (DIGITAL RIGHTS MANAGEMENT) are not recognizable.*

(Continued)

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- *The data in the USB memory may be lost while using this audio. Always back up important data on a personal storage device.*
- *Please avoid using USB memory products which can be used as key chains or cellular phone accessories as they could cause damage to the USB Jack. Please make certain only to use plug type connector products as shown below.*

* NOTICE FOR USING THE iPod® DEVICE

- Some iPod models **may** not support communication protocol **and files may not properly play**.
Supported iPod models:
 - iPod Mini
 - iPod 4th(Photo) ~ 6th(Classic) generation
 - iPod Nano 1st~4th generation
 - iPod Touch 1st~2nd generation
- The order of search or playback of songs in the iPod can be different from the order searched in the audio system.
- If the iPod disabled due to its own malfunction, reset the iPod. (Reset: Refer to iPod manual)
- An iPod may not operate normally on low battery.
- Some iPod devices, such as the iPhone, can be connected through the Bluetooth® interface. The device must have audio Bluetooth® capability (such as for stereo headphone Bluetooth®). The device can play, but it will not be controlled by the audio system.

- To use iPod features within the audio, use the cable provided upon purchasing an iPod device.
- Skipping or improper operation may occur depending on the characteristics of your iPod/Phone device.
- If your iPhone is connected to both the Bluetooth® and USB, the sound may not be properly played. In your iPhone, select the Dock connector or Bluetooth® to change the sound output (source).

⚠ CAUTION IN USING THE iPod® DEVICE

- *When connecting iPod with the iPod Power Cable, insert the connector to the multimedia socket completely. If not inserted completely, communications between iPod and audio may be interrupted.*
- *When adjusting the sound effects of the iPod and the audio system, the sound effects of both devices will overlap and might reduce or distort the quality of the sound.*
- *Deactivate (turn off) the equalizer function of an iPod when adjusting the audio system's volume, and turn off the equalizer of the audio system when using the equalizer of an iPod.*
- *When not using iPod with car audio, detach the iPod cable from iPod. Otherwise, iPod may remain in accessory mode, and may not work properly.*

*** NOTICE FOR USING THE My Music**

- Even if memory is available, a maximum of 6,000 songs can be stored.
- The same song can be copied up to 1,000 times.
- Memory info can be **checked** in the System menu of Setup.

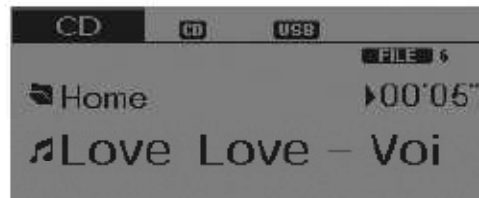
*** NOTICE FOR USING THE AUX**

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

BASIC METHOD OF USE : Audio CD / MP3 CD / USB / iPod / My Music

Press the **MEDIA** key to change the mod mode in order of CD→USB(iPod)→AUX →My Music→BT Audio.

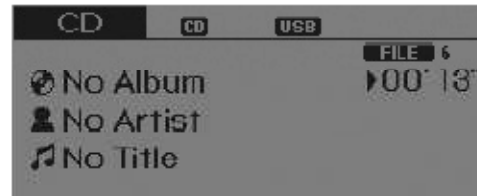
The folder/file name is displayed on the screen.



- * The CD is automatically played when a CD is inserted.
- * The USB music is automatically played when a USB is connected.

Press the **SETUP** key ▶ Select [**Ⓜ**Display] through the **TUNE** knob or **1** key ▶ Select [Media Display] ▶ Media Display

- [Media Display] : The screen display info can be changed to Album/Artist/ Song name.



Repeat

While song (file) is playing ▶ **1** (RPT) key

Audio CD, MP3 CD, USB, iPod, My Music mode: RPT on screen

- To repeat one song (Shortly pressing the key (under 0.8 seconds)): Repeats the current song.

MP3 CD, USB mode: FLD.RPT on screen

- To repeat folder (Pressing and holding the key (over 0.8 seconds)): repeats all files within the current folder.

* Press the **1** key again to turn off repeat.

Random

While song (file) is playing ▶ **2** (RDM) key

Audio CD, My Music mode: RDM on screen

- Random (Shortly pressing the key (under 0.8 seconds)): Plays all songs in random order.

MP3 CD, USB mode: FLD.RDM on screen

- Folder Random (Shortly pressing the key (under 0.8 seconds)): Plays all files within the current folder in random order.

iPod mode: ALB RDM on screen


- Album Random (Shortly pressing the key (under 0.8 seconds)): Plays all files within albums of the current category in random order.


MP3 CD, USB, iPod mode: ALL RDM on screen


- All Random (pressing and holding the key (over 0.8 seconds)): Plays all files in random order.

* Press the **2** key again to turn off repeat.

Changing Song/File


While song (file) is playing ▶  key

- Shortly pressing the key (under 0.8 seconds): Plays the current song from the beginning.
- * If the  key is pressed again within 1 second, the previous song is played.
- Pressing and holding the key (over 0.8 seconds): [Rewinds the song.](#)


While song (file) is playing ▶  key

- Shortly pressing the key (under 0.8 seconds): Plays the next song.
- Pressing and holding the key (over 0.8 seconds): [Fast forwards the song.](#)

Scan

While song (file) is playing ▶  key

Scans all songs for 10 seconds starting from the next song.


- * Press the  key again to turn off.
- * The SCAN function is not supported in iPod mode.

Folder Search : MP3 CD, USB Mode



While file is playing ▶  (Folder Up) key

- [Searches the next folder.](#)

While file is playing ▶  (Folder Down) key

- [Searches the previous folder.](#)
- * If a folder is selected by pressing the  TUNE knob, the first file within the selected folder will be played.
- * In iPod mode, moves to the Parent Folder.

Searching Songs (File)

- Turning  TUNE knob : Searches for songs (files)
- Pressing  TUNE knob : Plays selected song (file).

MENU : Audio CD

Press the CD MP3 mode **MENU** key to set the Repeat, Random, Information features.

**Repeat**

Press the **MENU** key ▶ Set [**1**RPT] through the **TUNE** knob or **1** key to repeat the current song.

* Press RPT again to turn off.

Random

Press the **MENU** key ▶ Set [**2**RDM] through the **TUNE** knob or **2** key to randomly play songs within the current folder.

* Press RDM again to turn off.

Information

Press the **MENU** key ▶ Set [**3**Info] 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

Press the CD MP3 mode **MENU** key to set the Repeat, Folder Random, Folder Repeat, All Random, Information, and Copy features.



Repeat

Press the **MENU** key ▶ Set [**1**RPT] through the **TUNE** knob or **1** key to repeat the current song.

* Press RPT again to turn off.

Folder Random

Press the **MENU** key ▶ Set [**2**F.RDM] through the **TUNE** knob or **2** key to randomly play songs within the current folder.

* Press F.RDM again to turn off.

Folder Repeat

Press the **MENU** key ▶ Set [**3**F.RPT] through the **TUNE** knob or **3** key to repeat songs within the current folder.

* Press F.RPT again to turn off.

All Random

Press the **MENU** key ▶ Set [**4**A.RDM] through the **TUNE** knob or **4** key to randomly play all songs within the CD.

* Press A.RDM again to turn off.

Information

Press the **MENU** key ▶ Set [**5**Info] through the **TUNE** knob or **5** key to display information of the current song.

* Press the **MENU** key to turn off info display.

Copy

Press the **MENU** key ▶ Set [**6**Copy] 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.

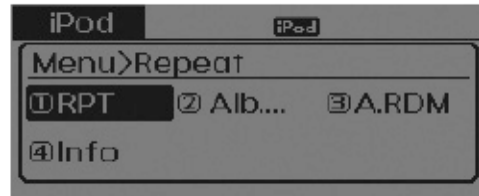
* If another key is pressed while copying is in progress, a pop up asking you whether to cancel copying is displayed.

* 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 the **MENU** key to set the Repeat, Album Random, All Random, and Information features.

**Repeat**

Press the **MENU** key ▶ Set [**1**RPT] through the **TUNE** knob or **1** key to repeat the current song.

* Press RPT again to turn repeat off.

Album Random

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

Plays albums within the currently playing category in random order.

* Press Alb.RDM again to turn off.

All Random

Press the **MENU** key ▶ Set [**3**A.RDM] through the **TUNE** knob or **3** key.

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

* Press A.RDM again to turn off.

Information

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

Displays information of the current song.

* Press the **MENU** key to turn off info display.

MENU : My Music Mode

In My Music mode, press the **MENU** key to set the Repeat, Random, Information, Delete, Delete All, and Delete Selection features.



Repeat

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

Repeats the currently playing song.
* Press RPT again to turn repeat off.

Random

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

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

* Press RDM again to turn random off.

Information

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

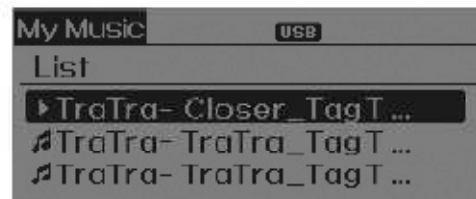
Displays information of the current song.

* Press the **MENU** key to turn off info display.

Delete

Press the **MENU** key ▶ Set [**4**Delete] 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
- ① Select the file you wish to delete by using the **TUNE** knob.



② Press the **MENU** key and select the delete menu to delete the selected file.

Delete All

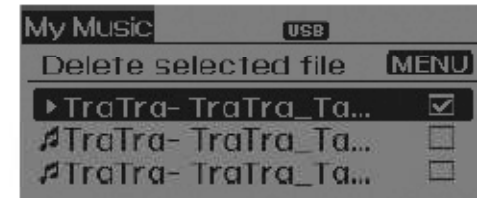
Press the **MENU** key ▶ Set [**5**Del.All] through the **TUNE** knob or **5** key.
Deletes all songs of My Music.

Delete Selection

Press the **MENU** key ▶ Set [**6**Del.Sel] through the **TUNE** knob or **6** key.

Songs within My Music are selected and deleted.

① Select the songs you wish to delete from the list.



② After selecting, press the **MENU** key and select the delete menu.



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 with the AUX terminal.

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



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

 **CAUTION IN USING
BLUETOOTH® CELLULAR
PHONE**

- Do not use a cellular phone or perform Bluetooth® settings (e.g. pairing a phone) while driving.
- Some Bluetooth®-enabled phones may not be recognized by the system or fully compatible with the system.
- Before using Bluetooth® related features of the audio system, refer your phone's User's Manual for phone-side Bluetooth® operations.
- The phone must be paired to the audio system to use Bluetooth® 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.).
- 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.

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- Do not place the phone near or inside metallic objects, otherwise communications with Bluetooth® system or cellular service stations can be disturbed.
- While a phone is connected through Bluetooth® your phone may discharge quicker than usual for additional Bluetooth®-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 situation.
- Please save your phone name in English, or your phone name may not be displayed correctly.
- If Priority is set upon vehicle Ignition(IGN/ACC ON), the Bluetooth® phone will be automatically connected. Even if you are outside, the Bluetooth® phone will be automatically connected once you are in the vicinity of the vehicle. If you do not want automatic Bluetooth® power off.

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- The hands-free call volume and quality may differ depending on the mobile phone.

NOTE:

Bluetooth® phone compatibility can be checked by visiting www.hyundaiusa.com and under the SERVICE & PARTS - BLUETOOTH COMPATIBILITY menu.

- The website provides 9 types of information, including information on Pairing, Connection, Handsfree Calling, Streaming, and more.

What is Bluetooth®?

Bluetooth® is a wireless technology that allows multiple devices to be connected in a short range, low-powered devices like hands-free, stereo headset, wireless remote controller, etc. For more information, visit the Bluetooth® website at www.Bluetooth.com

 **CAUTION**

- Bluetooth® 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® mobile phones, refer to the “Phone Setup” section.

When a Bluetooth® mobile phone is connected, a (📶) icon will appear at the top of the screen. If a (📶) icon is not displayed, this indicates that a Bluetooth® device has not been connected. Your must connect the device before use. For more information on Bluetooth® mobile phones, refer to the “Phone Setup” section.

Pairing and connecting a Bluetooth® mobile phone will work only when the Bluetooth® option within your mobile phone has been turned on. (Methods of turning on the Bluetooth® feature may differ depending on the mobile phone.)

In some mobile phones, starting the ignition while talking through Bluetooth® 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® mobile phone and devices.

Bluetooth® functions may operate unstably depending on the communication state.

Bluetooth® Audio

Before using Bluetooth® audio features

- Bluetooth® audio **may not** be supported depending on the compatibility of your Bluetooth® mobile phone.
- In order to use Bluetooth® audio, you must first pair and connect the Bluetooth® mobile phone.
- Bluetooth® audio can be used only when the [Audio Streaming] of Phone is turned **(On)**.
- ※ Setting Bluetooth® Audio Streaming :
Press the **SETUP** key ▶ Select [Phone] through the tune knob or **3** key ▶ Select [Audio Streaming] through the **TUNE** knob ▶ Set **(On)**/**(Off)**

Starting Bluetooth® Audio

- Press the **MEDIA** key to change the mode in order of CD→USB→AUX→My Music→BT Audio.
- If BT Audio is selected, Bluetooth® audio will start playing.
- ※ Audio may not automatically start playing in some mobile phones.

Using the Bluetooth® audio features

- Play / Stop
Press the **TUNE** knob to play and pause the current song.



- ※ The previous song / next song / play / pause functions may not be supported in some mobile phones.




PHONE

Before using the Bluetooth® phone features

- In order to use Bluetooth® phone, you must first pair and connect the Bluetooth® mobile phone.
- If the mobile phone is not paired or connected, it is not possible to enter Phone mode. Once a phone is paired or connected, the guidance screen will be displayed.
- If Priority is set upon vehicle ignition (IGN/ACC ON), the Bluetooth® phone will be automatically connected. Even if you are outside, the Bluetooth® phone will be automatically connected once you are in the vicinity of the vehicle. If you do not want automatic Bluetooth® phone connection, set the Bluetooth® power to OFF.

Making a call using the Steering remote controller



- Check call history and making call
 - ① Shortly press (under 0.8 seconds) the  key on the steering remote controller .
 - ② The call history list will be displayed on the screen.
 - ③ Press the  key again to connect a call to the selected number.
- Redialing the most recently called number
 - ① Press and hold (over 0.8 seconds) the  key on the steering remote controller.
 - ② The most recently called number is redialed.

* 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)

Phone MENU

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



Call history

Press the **PHONE** key ▶ Set [1 Call History] through the **TUNE** knob or **1** 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** 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, house 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 Phone Setup] through the **TUNE** knob or **3** key.

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

CAUTION IN USING VOICE COMMAND

- The voice recognition feature of this product supports recognition of the commands listed within this user's manual.

While using voice recognition, operating the steering remote control or the device will terminate voice recognition and allow you to manually operate desired functions.

Position the microphone above the head of the driver's seat. For superior performance, maintain good posture when saying voice commands.

Voice recognition may not function properly due to outside noise. Heed caution in the following circumstances.

- When the windows and sunroof are open
- When the heating/cooling system is on
- When passing a tunnel
- When driving on rugged and uneven roads




After downloading Bluetooth contacts, the system requires some times to convert the contacts into

voice information. During this time, voice recognition may not operate properly.

Upon inputting your contacts, special symbols and numbers cannot be recognized by voice. For example, "# John Doe%&" will be recognized as "John Doe".

VOICE COMMAND


Starting Voice Command

- To start voice command, shortly press the  key on the steering wheel remote controller.
- If voice command is in [Normal Mode], then the system will say "Please say a command. Beep"
- * If voice command is in [Expert Mode], then the system will only say a "Beep"
- * Setting Voice command [Normal Mode]/[Expert Mode]:
Press the **SETUP** key ▶ Select [System] through the  TUNE knob or **5** key ▶ Select [Voice Command Mode] through the  TUNE knob ▶ Set [Normal Mode]/[Expert Mode]
- Say the voice command.

CAUTION



- For proper voice recognition, say the voice command after the guidance comment and "beep~".

Skipping the Guidance Message

While the guidance message is being stated, shortly press the  key (under 0.8 seconds) to discontinue the guidance message and sound the "beep".


After the "beep", say the voice command.

Ending Voice Command

- While using voice command, press and hold the  key (over 0.8 seconds) to end voice command.
- While using voice command, pressing the steering wheel remote controller or a different key will end voice command.
- In a state where the system is waiting for your voice command, say "cancel" or "end" to end voice command.
- In a state where the system is waiting for your voice command, shortly press the  key (under 0.8 seconds) to end voice command.

Features of your vehicle

* Illustration on using voice commands

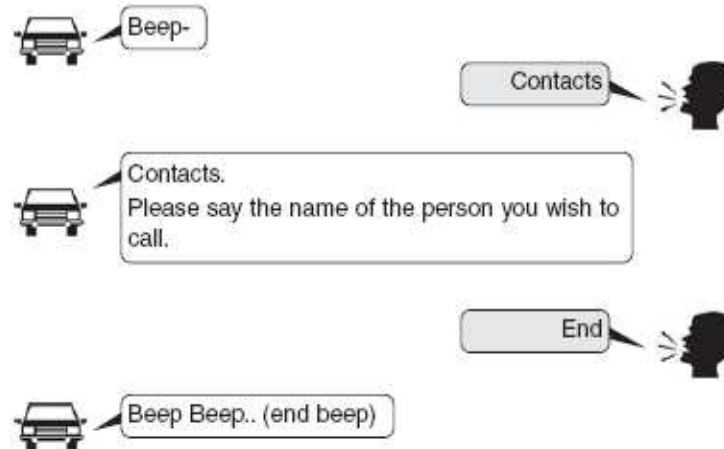
- Starting voice command.
Shortly pressing the  key (under 0.8 seconds):



- Skipping Voice Recognition
Shortly pressing the  key (under 0.8 seconds):



- End voice command.
Shortly pressing the  key (under 0.8 seconds):



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 Contacts.
Phone	Provides guidance on Phone related commands. After saying this command, say "Call History", "Contacts" to execute corresponding functions.
Call History	Displays the Call History screen.
Contacts (Call by Name)	Displays the Contacts screen. After saying this command, say the name of a contact saved in the Contacts to automatically connect the call.
Redial	Connects the most recently called number.
Radio	<ul style="list-style-type: none"> • When listening to the radio, displays the next radio screen. (FM1→FM2→AM→XM1→XM2→XM3→FM1) • When listening to a different mode, displays the most recently played radio screen.
FM	<ul style="list-style-type: none"> • When currently listening to the FM radio, maintains the current state. • When listening to a different mode, displays the most recently played FM screen.

Command	Function
FM1(FM One)	Displays the FM1 screen.
FM2(FM Two)	Displays the FM2 screen.
AM	Displays the AM screen.
FM Preset 1~6	Plays the most recently played broadcast saved in FM Preset 1~6.
AM Preset 1~6	Plays the broadcast saved in AM Preset 1~6.
FM 87.5~107.9	Plays the FM broadcast of the corresponding frequency.
AM 530~1710	Plays the AM broadcast of the corresponding frequency.
XM (Satellite)	<ul style="list-style-type: none"> • When currently listening to the XM, maintains the current state. • When listening to a different mode, displays the most recently played XM screen.
XM (Satellite) 1~3	Displays the selected XM screen.
XM Channel 0~255	Plays the selected XM channel.
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.

Command	Function
Search CD	Moves to the CD track or file selection screen. <ul style="list-style-type: none"> • For audio CDs, move to the screen and say the track number to play the corresponding track. • For MP3 CDs, move to the screen and say the file name to play the corresponding file. (When saying a file name, other voice commands will not be recognized.)
USB	Plays USB music.
Search USB	Moves to the USB file selection screen. Say the file name to play the corresponding file. (When saying a file name, other voice commands will not be recognized.)
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 the My Music file selection screen. After, say the file name to play the corresponding file. (When saying a file name, other voice commands will not be recognized.)
AUX (Auxiliary)	Plays the connected external device.
Bluetooth Audio	Plays the music saved in connected Bluetooth® device.

Command	Function
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.
Information	Displays the information of the current broadcast. (This feature can be used when receiving RBDS broadcasts.)

- Satellite radio commands: Commands that can be used while listening to Satellite Radio.

Command	Function
Channel Up	Plays the channel next to the current broadcast.
Channel Down	Plays the channel previous to the current 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.)
Category	Moves to the Category selection screen.
Scan	Scans receivable channels from the current broadcast and plays for 10 seconds each.
Preset 1~6	Plays the broadcast saved in Preset 1~6.
Preset Save 1~6	Saves the current broadcast channel to 1~6.
Information	Displays the information of the current broadcast.

Features of your vehicle

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

Command	Function
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.
Album 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.

MAP DATABASE HOTLINE

M & SOFT AMERICA MAP CENTER

TEL : 888-757-0010

WEBSITE : www.mapnsoft.com

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

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

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

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

IC Warning

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

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

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

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

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

APPENDIX