

AUDIO

■ Type 1



■ Type 2



(With *Bluetooth*® Wireless Technology)

H8N3G0000EE/H8N3G0001EE

Feature of Your Audio

(1) **RADIO**

- Plays Radio(FM/AM) mode.
- Each time the key is pressed, the mode is changed sequentially.
- The radio mode popup will be displayed when **[SETUP]** button ► [Display] ► [Mode Popup] is turned [On].

(2) **MEDIA**

- Plays Media(CD, USB(iPod®), BT Audio, AUX) mode.
- Each time the button is pressed, the mode is changed sequentially.
- The media mode popup will be displayed when **[SETUP]** button ► [Display] ► [Mode Popup] is turned [On].

(3) **PHONE**

- Moves to Phone screen.
- If Bluetooth® is not connected, displays Bluetooth Pair/Connections screen.

(4) **SETUP/CLOCK**

When pressed quickly

- Moves to Setup screen.

When pressed and held

- Moves to the Time Settings.

(5) **SEEK/TRACK**

When pressed quickly

- Radio mode: Searches broadcast frequencies.

- Media mode: Changes the track, file or title. (except AUX)

When pressed and held

- Radio mode: Automatically searches broadcast frequencies.
- Media mode: Rewinds or fast-forwards the song. (except BT Audio, AUX)

(6) **POWER/VOL** knob

- Power: Turns power On/Off by pressing the knob.
- Volume: Sets volume by turning the knob left/right.

(7) **MENU**

- Displays menus for the current mode.

(8) **DISP**

- Turns off the screen.
- Each time the key is pressed, it sets the Screen Off → On → Off.

(9) **BACK**

- Moves to previous screen.

(10) **FOLDER**

- Media(MP3 CD, USB) mode: Searches folders.

(11) **TUNE**

- Radio mode: Changes frequency by turning the knob left/right.
- Media mode: Searches songs(files) by turning the knob left/right.

(12) **PRESET [1] ~ [6]**

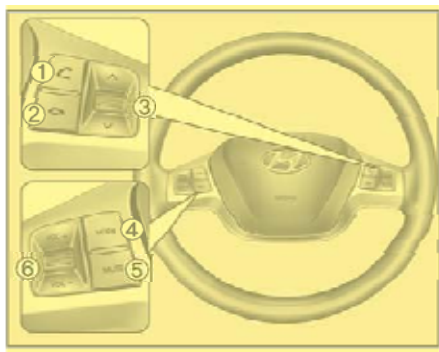
When pressed quickly

- Radio mode: Receives saved frequencies(channels).
- Media mode(except BT Audio, AUX)
 - **[RPT]** button: Repeat/Repeat Folder
 - **[SHFL]** button: Shuffle/Shuffle Folder
- In case of Menu popup, the number menu is selected.

When pressed and held

- Radio mode: Saves frequencies (channels).

Steering Wheel Controls



*The actual features in the vehicle may differ from the illustration.

(1) **CALL**

- When pressed quickly
 - Moves to Phone screen.
 - When pressed in the incoming call screen, answers the call.
 - When pressed during call waiting, switches to waiting call.
- When pressed and held
 - Display the last dialed number.

- When pressed during a Bluetooth® Handsfree call, switches call back to Bluetooth device(private mode).
- When pressed while calling on the Bluetooth device, switches call back to Bluetooth® Handsfree.
- If Bluetooth® is not connected, displays Bluetooth Pair/Connection screen.

- Media mode: Rewinds or fast-forwards the song. (except BT Audio, AUX)

(2) **END**

- When pressed during a call, ends the phone call.
- When pressed in the incoming call screen, rejects the call.

(3) **SEEK**

- When pressed quickly
 - Radio mode: Searches broadcast frequencies saved to Presets.
 - Media mode: Changes track, file or title. (except AUX)
- When pressed and held
 - Radio mode: Automatically searches broadcast frequencies.

(4) **MODE**

- Each time this is pressed, the mode is changed sequentially.
- If the media is not connected, the corresponding modes will be disabled.
- Press and hold to turn the Audio system on/off.
- When power is off, press key to turn power back on.

(5) **MUTE**

- Mutes the audio volume.
- When a call is active, mic volume is muted.

(6) **VOL**

- Controls the audio or call volume.

Radio

Radio Mode

Change Mode: [RADIO]

- Plays Radio(FM/AM) mode. Each time the button is pressed, the mode is changed sequentially.
- If your audio system has no Bluetooth feature, you can change the radio mode through **[FM]**, **[AM]** button.
- The radio mode popup will be displayed when **[SETUP]** button ► [Display] ► [Mode Popup] is turned [On].

Search Frequency: [SEEK/TRACK]

Searches the previous/next broadcast frequencies.

- Pressing the button: Changes the frequency.
- Pressing and holding the button: Automatically searches for the next frequency.

Change Frequency: [TUNE]

Changes frequency by turning the knob left/right. You can seek available frequencies manually.

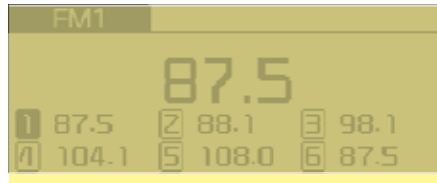
Saved Frequency: PRESET [1] ~ [6]

- Pressing the button: Plays the frequency saved in the corresponding button.
- Pressing and holding the button: Saves the currently playing broadcast to the selected button and sounds a BEEP.

Audio system

H8N3G001EE

FM/AM



MENU

Displays Menu Popup when pressing the **[MENU]** button.

Auto Store

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

Scan

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

Sound Settings

Moves to Sound Settings.

Media

Media Mode

Change Mode: [MEDIA]

- Press the **[MEDIA]** button to change the mode in order of CD → USB(iPod®) → BT Audio → AUX.

If your audio has no Bluetooth feature: Disc → USB(iPod®) → AUX

If your audio has no CD feature: USB(iPod®) → BT Audio → AUX

- The media mode popup will be displayed when **[SETUP]** button [Display] ► [Mode Popup] is turned [On].

You can select a menu in the mode popup by using the PRESET **[1] ~ [6]** buttons or **TUNE** knob.

- If media device(CD, USB, iPod, AUX) is connected, then it will automatically operate. Once it is disconnected, the previous mode will be restored.
- The Audio/BT Audio/AUX volume can also be controlled.

Repeat: [1 RPT]

- Repeats the current song or repeats all songs within the current folder.
- Audio CD, iPod mode: Repeat Song → Repeat Off
- MP3 CD, USB mode: Repeat Song → Repeat Folder → Off

Shuffle: [2 SHFL]

- Plays all songs within the current folder(category) or play all songs in random order.
- Audio CD, iPod mode: Shuffle Folder → Shuffle Off
- MP3 CD, USB mode: Shuffle Folder → Shuffle All → Off

Change Song/File: [SEEK/TRACK]

[SEEK/TRACK]

- Pressing the button: Plays the current song from the beginning. If the **[v SEEK/TRACK]** button is pressed again within 3 seconds, the previous song is played.
- Pressing and holding the button: Rewinds the song.

[SEEK/TRACK ^]

- Pressing the button: Plays the next song.
- Pressing and holding the button: Fast-forwards the song.
- AUX and BT Audio don't support Rewind/Fast-forward feature.
- Changing the previous/next song may not be supported in some Bluetooth devices.

Search Song: [TUNE]

- Turning **TUNE** knob: Searches for songs(files).
- Pressing **TUNE** knob: Plays selected song(file).
- ✧ BT Audio and AUX don't support playlist feature.
- ✧ While BT Audio is playing, pressing the **TUNE** knob plays and pauses the current song.

Search Folder: [FOLDER]

- Searches the previous/next folder. (MP3 CD, USB)
- 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.

H8N3G002EE

Disc(Audio CD)

Displays Menu Popup when pressing the **[MENU]** button.

List

Moves to the list screen.

Repeat

Repeats the current song. Press it a gain to turn off.

Random(Shuffle)

Randomly plays all songs. Press it a gain to turn off.

Scan

Scans the beginning parts of all songs. (approximately 10 seconds per file)

Info

Displays information of the current song.

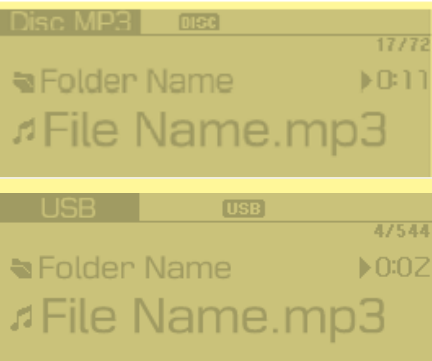
Sound Settings

Moves to Sound Settings.

Audio system

H8N3G003EE
H8N3G004EE

Disc(MP3 CD)/USB



Displays Menu Popup when pressing the [MENU] button.

- List**
Moves to the list screen.

Repeat
Repeats the current song. Press it a gain to turn off.

Repeat Folder
Repeats songs within the current folder. Press it again to turn off.

Random Folder(Shuffle Folder)
Randomly plays songs within the current folder. Press it again to turn off.
- Random(Shuffle)**
Randomly plays all songs. Press it a gain to turn off.

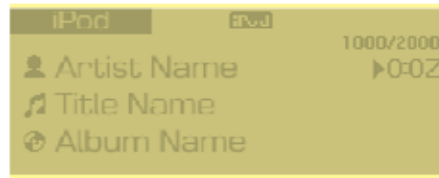
Scan
Scans the beginning parts of all songs. (approximately 10 seconds per file)

Info
Displays information of the current song.

Sound Settings
Moves to Sound Settings.

H8N3G005EE

H8N3G006EE

iPod

Displays Menu Popup when pressing the **[MENU]** button.

List

Moves to the list screen.

Repeat

Repeats the current song. Press it a gain to turn off.

Random(Shuffle)

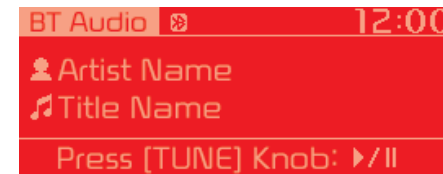
Plays all songs within the currently playing category in random order. Press it again to turn off.

Info

Displays information of the current song.

Sound Settings

Moves to Sound Settings.

BT Audio

Displays Menu Popup when pressing the **[MENU]** button.

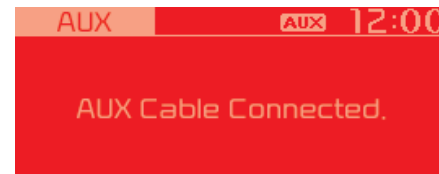
Sound Settings

Moves to Sound Settings.

*NOTICE

- Audio may not automatically start playing in some Bluetooth devices. If the music in the Bluetooth device is not played after changing to audio streaming mode, press the [TUNE] knob. Check if the music is playing in the Bluetooth device after changing to audio streaming mode.
- Audio streaming may not be supported for some Bluetooth devices.
- If Bluetooth device is disconnected, BT Audio is ended.
- Bluetooth connection is required to use BT Audio. Refer to the Bluetooth manual for more information.

AUX



Displays Menu Popup when pressing the [MENU] button.

Sound Settings

Moves to Sound Settings.

*NOTICE

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

Bluetooth

Before Using the Bluetooth® Handsfree

What is Bluetooth® Wireless Technology?

- The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth® SIG, Inc.
- *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® phones, PDAs, various electronic devices, and automotive environments, *Bluetooth®* Wireless Technology to be transmitted at high speeds without having to use a connector cable.
- Bluetooth® Handsfree refers to a device which allows the user to conveniently make phone calls with Bluetooth® devices through the Multimedia system.



WARNING

Focus on the road while driving. The driver's primary responsibility is in the safe and legal operation of the vehicle. Drivers should not use any hand held devices or other equipment or vehicle systems that distract the driver during vehicle operation.

Do not stare at the multimedia screen for long periods of time while driving. Staring at the screen for prolonged periods of time can lead to traffic accidents and can result in personal injuries.

Precautions for Safe Driving

- Bluetooth® is a feature that enables drivers to make handsfree calls. Connecting the head unit with a Bluetooth® phone allows the user to conveniently make calls, receive calls, and manage the phonebook. Before using 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.

CAUTIONS upon Connecting Bluetooth® Phone

- Before connecting the head unit with the Bluetooth device, check to see that the mobile device supports Bluetooth® features.
- Pairing Bluetooth® devices and use of other Bluetooth® features are not supported when the vehicle is in motion. For safety, please first park your vehicle.
- Even if the mobile device supports Bluetooth® Wireless Technology, the device will not be found during device searches if the device has been set to hidden state or the Bluetooth® power is turned off. Disable the hidden state or turn on the Bluetooth® power prior to searching/connecting with the head unit.
- If a Bluetooth® Wireless Technology device becomes disconnected due to being out of communication range, turning the device OFF, or a Bluetooth® Wireless Technology communication error, corresponding Bluetooth® Wireless Technology devices are automatically searched and reconnected.

- If you do not want automatic connection with your Bluetooth® device, turn the Bluetooth® feature off in the Bluetooth® device.
- Only one Bluetooth® Wireless Technology device can be connected at a time.
- Bluetooth® connection may become intermittently disconnected in some Bluetooth devices. Follow these steps to try again.
 1. Turn the Bluetooth® function within the Bluetooth device OFF/ON and try again.
 2. Turn the Bluetooth device power OFF/ON and try again.
 3. Completely remove the Bluetooth device battery, reboot, and then again.
 4. Reboot the Multimedia System and try again.
 5. Delete all paired devices from both of Bluetooth device and Head Unit sides and then try again.

CAUTIONS upon Using Bluetooth® Phone

- If the Bluetooth device is not connected, it is not possible to enter Phone mode. After connecting your Bluetooth device to your car, use the Bluetooth features.
- You will not be able to use the handsfree feature when your phone is outside of the cellular service area (e.g. in a tunnel, in an underground, in a mountainous area, etc.).
- If the cellular phone signal is poor or the vehicle's interior noise is too loud, it may be difficult to hear the other person's voice during a call.
- Do not place the Bluetooth device near or inside metallic objects, otherwise communications with Bluetooth® Wireless Technology system or cellular service stations can be disturbed.
- Placing the audio system within an electromagnetic environment may result in noise interference.
- Some Bluetooth devices may cause interference noise or malfunction to audio system. In this case, store the device in a different location may resolve the condition.
- While a device is connected through Bluetooth® Wireless Technology, your device may discharge quicker than usual for additional Bluetooth® Wireless Technology-related operations.
- The handsfree call volume and quality may differ depending on the Bluetooth device.
- If Connection Priority is set upon vehicle ignition (IGN/ACC ON), the Bluetooth® Wireless Technology device will be automatically connected. Even if you are outside, the Bluetooth® Wireless Technology device will be automatically connected once you are in the vicinity of the vehicle. If you do not want to automatically connect your Bluetooth® Wireless Technology device, turn off the Bluetooth® Wireless Technology feature in your Bluetooth device.
- In some Bluetooth devices, starting the ignition while talking through Bluetooth® Wireless Technology enabled handsfree call will result in the call becoming disconnected due to car handsfree call transfer. If you use your phone outside the vehicle, turn off the Bluetooth® Wireless Technology feature in your phone.

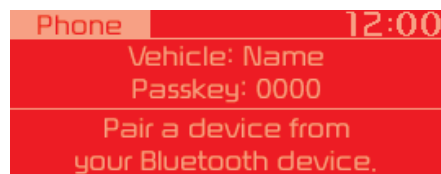
Bluetooth Connection

Before you can use the Bluetooth feature, you must first pair/connect your Bluetooth device to your car.

Pairing a New Device

Select **[PHONE]** button in the head unit or **[CALL]** button in the steering wheel remote control.

Select **[SETUP]** button. Select **[Phone]**. Select **[Add New Device]**.



In your Bluetooth device,

1. Pair your car after your Bluetooth device detects the Bluetooth device.
2. Enter the passkey(0000) or accept the authorization popup.
3. Connect Bluetooth.

*NOTICE

- Up to 5 Bluetooth devices can be paired.
- The default passkey is 0000.
- During a Bluetooth device connection, another device cannot be paired.
- The Vehicle Name above is an example. Check the actual information on the product.
- Pairing and connecting a Bluetooth® Wireless Technology enabled Bluetooth device will work only when the Bluetooth® Wireless Technology option within your Bluetooth device has been turned on. (Methods of turning on the Bluetooth® Wireless Technology enabled feature may differ depending on the Bluetooth device.)

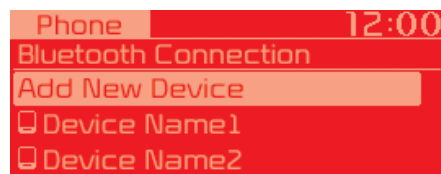
- After pairing is complete, a contact download request is sent to the Bluetooth device. Some Bluetooth devices may require confirmation upon receiving a download request. Ensure your Bluetooth device accepts the connection. Refer to your phone's user manual for additional information regarding phone pairing and connections.

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Connecting Bluetooth Devices

Select **[PHONE]** button in the head unit or **[CALL]** button in the steering wheel remote control. € Select the name of the device to connect. € Connect Bluetooth.

- Connects the Bluetooth devices that you add.

***NOTICE**

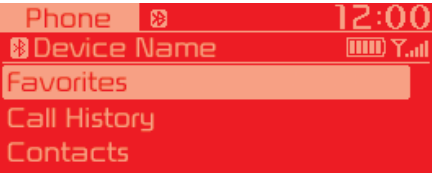
- Only one Bluetooth device can be connected at a time.
- *Bluetooth®* Wireless Technology features supported within the vehicle are as follows. Some features may not be supported depending on your Bluetooth® Wireless Technology device.
 - Outgoing/Incoming Handsfree calls
 - Operations during a call: Switch to Private, Switch to call waiting, MIC on/off
 - Downloading Call History
 - Downloading Contacts
 - *Bluetooth®* Wireless Technology device Auto Connection
 - Bluetooth® Audio Streaming

Bluetooth Phone

Favorites

Select **[PHONE]** button € Select [F
avorites]

- Displays Phone Menu screen.
- The connected device name is displayed in the top of the display.



- : Call signal strength indicator
- : Battery level of the Bluetooth devices connected

- Lists the phone numbers saved as Favorites. Select from the list to dial the number.



Displays Menu Popup when pressing the **[MENU]** button

- Add New Favorites: Adds a phone number to Favorites.
- Delete ItemsRepeat: Deletes numbers that you select from Favorites.
- Delete All: Deletes all of the numbers from Favorites.

***NOTICE**

- Up to 20 favorites can be saved in favorites of each device.
- Downloading favorites in your Bluetooth device does not be supported.
- To save favorite, contacts should be downloaded.
- Contact saved in favorites will not be automatically updated if the contact has been updated in the phone. To update Favorites, delete the favorite and create a new favorite.

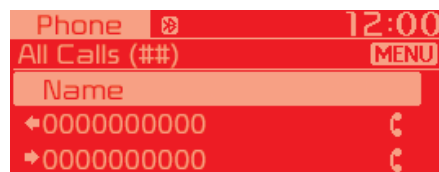
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Call History

Select **[PHONE]** button € Select [C
all History]

- Displays all of your call history. Select from the list to dial the number.



Displays Menu Popup when pressing the **[MENU]** button

- Download: Downloads the call history information from your Bluetooth device.
- All Calls: Lists the all call history.
- Dialed Calls: Lists the calls that you made.
- Received Calls: Lists the calls that you have received.
- Missed Calls: Lists the calls you missed.

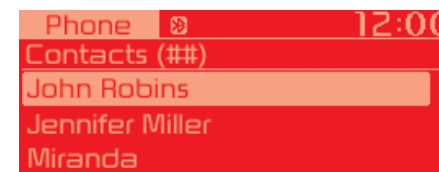
***NOTICE**

- Call history may not be saved in the call history list in some Bluetooth devices.
- Calls from restricted ID's are not saved in the call history list.
- Up to 50 calls can be added in each Dialed Calls/Received Calls/Missed Calls list.
- The durations of each dialed/received call are not displayed in your car's Call History list.
- While the call history download is in progress, the status bar displays an icon (📶).
- If the call history download is turned off on the Bluetooth device, the call history download will fail.
- Some devices require a device authentication for downloading your call history. If download fails, check if the Bluetooth settings or display status are normal.

Contacts

Select **[PHONE]** button € Select [C
ontacts]

- Displays the list of Contacts. Select from the list to dial the number.



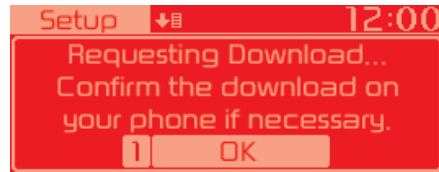
Displays Menu Popup when pressing the **[MENU]** button.

- Download: Downloads contacts from your Bluetooth device.
- A-Z Jump: Finds a contact in an alphabetical order.

Requesting Download

Some devices require a device authentication for downloading your call history and contacts.

If download fails, check the *Bluetooth®* Wireless Technology device settings or the screen state.

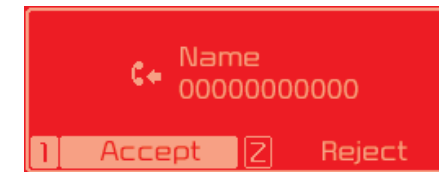
***NOTICE**

- Up to 2000 phone numbers can be downloaded from a single, paired Bluetooth device.
- You cannot edit or delete downloaded phone numbers from your car.
- Contacts can be viewed only when the Bluetooth device is connected.

- Even if the Bluetooth device is disconnected, the downloaded data will remain. (Note that deleting a paired device will also delete all downloaded Contacts and Call History data)
- Downloaded phone numbers may be lost depending on the condition of the head unit. Keep your important data in a safe place.
- The status bar displays a (↓) while downloading contacts.
- The download will not be available if the contacts download function is turned off on your Bluetooth device.
- Phone contact names should be saved in English or they may not be displayed correctly.
- The time of contacts/call history download may differ depending on the Bluetooth devices.
- Some devices require a device authentication for downloading your contacts. If download fails, check your phone screen and confirm the download if necessary.

Accept/Reject Call

If there is an incoming call, a popup message will appear.



- To answer the incoming call, press the [Accept] button on the screen or the [CALL] button on the steering remote control.
- To reject the call, press the [Reject] button on the screen or the [END] button on the steering wheel control.

***NOTICE**

- In some Bluetooth devices, the caller's number may not be displayed, and the Reject feature may not be supported.

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Using the Menu During a Phone Call

When making a call, you can use the following menu items.



(1) Private: Switches a voice call from the car Hands-free to the Bluetooth device.

(2) End: Ends a call.

Displays Menu Popup when pressing the **[MENU]** button.

- Outgoing Volume: Displays the Mic Volume settings. You can adjust the in-call volume that the other party hears (level 1 - 5).

***NOTICE**

- Up to 2000 phone numbers can be downloaded from a single, paired Bluetooth device.
- If the caller's number is listed in Contacts, the caller's name will be displayed. Otherwise, only the number will be displayed. In some Bluetooth devices, the phone number may not be displayed.
- In some Bluetooth devices, the Use Private feature may not be supported.
- In some Bluetooth devices, the Switch feature may not be supported.
- The phone number may not be properly displayed in some Bluetooth devices.
- During a phone call on a Bluetooth Handsfree, you cannot access other modes, such as Radio and Setup.
- Depending on handset types, the in-call volume the other party hears may differ. If the other party hears your voice too low or too loud, adjust the mic volume.

Phone Settings

Select **[PHONE]** button → Select [Phone Settings]

- Moves to a screen of Phone Settings. Refer to [Setup → Phone Settings] manual for more information.

SETUP**Display**

Select **[SETUP]** button € Select [Display]

- Mode: Changes LCD illumination modes: Automatic(changes the level automatically), Daylight, and Night.
- Media Display: When playing an MP3 file, select the desired display info from [Folder/File] or [Artist/Title/Album].
- Mode Popup: During [On] state, press the **[RADIO]** or **[MEDIA]** button to display the mode change popup.
- Text Scroll: If MP3 file name is too long to display, the file name is scrolled from right to left.

Sound

Select **[SETUP]** button € Select [Sound]

- Position: Selects the sound position.
- Tone: Selects the sound tone.
- Speed Dependent Volume: Controls the volume level automatically according to the speed of the vehicle

Clock

Select **[SETUP]** button € Select [Clock]

- Clock: Adjusts the number currently in focus to set the [hour], and press the **TUNE** knob to set the [minute] and [AM/PM].
- Date: Adjusts the number currently in focus to make the settings and press the **TUNE** knob to move to the next settings.
- Time Format: Sets the 12/24 hour time format of the audio system.
- Clock Display (Power Off): Displays time/date on screen when the audio system turns power off.

Phone**Add New Device**

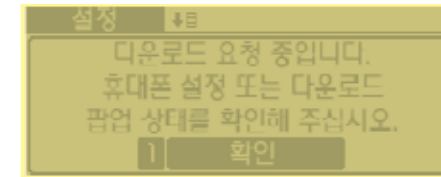
Select **[SETUP]** button € Select [Phone] € Select [Add New Device]

- The following steps are the same as those described in the section [Pairing a New Device] on the previous page.

Connect/Disconnect Device

Select **[SETUP]** button € Select [Phone] € Select [Paired Devices]

- Displays the paired Bluetooth device list.
- From the paired device list, select the device you want to connect or disconnect.



***NOTICE**

- Displays the icons when Bluetooth device is connected.

 : An icon appears when you make a Bluetooth Audio connection.

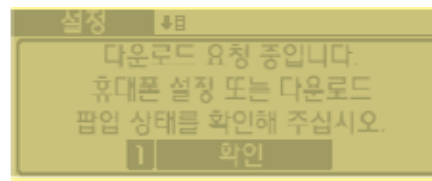
 : An icon appears when you make a Bluetooth Handsfree connection.

- Only one Bluetooth device can be connected at a time.
- Bluetooth Handsfree and Bluetooth Audio functions are supported. Handsfree and audio-supported devices, such as a Bluetooth smartphone or audio, will function normally.
- If the system is not stable due to a vehicle-Bluetooth device communication error, delete the paired device on each device and pair/connect the Bluetooth device again.

Delete Devices

Select **[SETUP]** button € Select [Phone] € Select [Delete Devices]

- Displays the paired Bluetooth device list.
- When selecting from the list, the device is deleted.

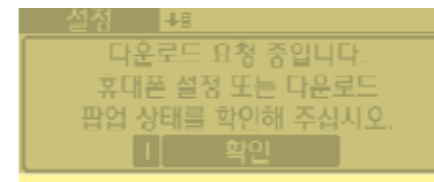
***NOTICE**

- When you delete a paired device, the Call History and Contacts stored in the head unit are also deleted.
- To re-use a deleted device, you must pair the device again.

Auto Connection Priority

Select **[SETUP]** button € Select [Phone] € Select [Connection Priority]

- Select the device to want to set the connection priority of paired devices.
- If "None" is chosen, the Bluetooth system will try to connect to the last connected device, then to all paired devices.



***NOTICE**

- When the engine is running, the selected Bluetooth device is automatically connected. If you fail to connect the selected device, the previously-connected device is automatically connected, and if it also fails, then it tries to connect all paired devices sequentially.
- Depending on auto connection priority, connection to a device may take time.
- If a Bluetooth® Wireless Technology device becomes disconnected due to being out of communication range, turning the device OFF, or a Bluetooth® Wireless Technology communication error, corresponding Bluetooth® Wireless Technology devices are automatically searched and reconnected.
- Even if you are outside, the Bluetooth® Wireless Technology device will be automatically connected once you are in the vicinity of the vehicle. If you do not want to automatically connect your Bluetooth® Wireless Technology device, turn off the Bluetooth® Wireless Technology feature in your Bluetooth device.

- In some Bluetooth devices, starting the ignition while talking through Bluetooth® Wireless Technology enabled handsfree call will result in the call becoming disconnected due to car handsfree call transfer. If you use your phone outside the vehicle, turn off the Bluetooth® Wireless Technology feature in your phone.

Language

Select [SETUP] button → Select [Language]

- Changes the display language.

Display Off

Select [SETUP] button → Select [Display 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.

Declaration of Conformity

FCC

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

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

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

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

Audio system

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions :

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

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum 20cm between the and your body. This transmitter must not be collocated or operating in conjunction with any other antenna or transmitter unless authorized to do so by the FCC.

CE for EU

Declaration of Conformity

We, manufacturer, hereby declare that the product

Model: AC112F2EE, AC110F2GG, AC110F2GN, AC110F2GE, AC110F2GL, AC111F2GG,
AC111F2GE, AC110F2EE
Type: DIGITAL CAR AUDIO SYSTEM

satisfies all the technical regulations applicable to the product within the scope of Council Directives 2006/95/EC, 2004/108/EC and 99/5/EC:

Radio: EN 300 328 V1.8.1(2012-06)
EMC: EN 55013 : 2013
EN 55020 : 2007 / A11 : 2011
ETSI EN 301 489-1 V 1.9.2
ETSI EN 301 489-17 V 2.2.1
Safety: EN 60065:2002+A1:2008+A11:2008+A2:2010+A12:2011

All essential radio test suites have been carried out.

Testing laboratory: DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea, 449-935
Tel. +82 31 321 2664 / Fax. +82 31 321 1664

Authorized representative or manufacturer:

HYUNDAI MOBIS Co., Ltd.
203, Teheran-ro, Gangnam-gu, Seoul, 135-977, Korea
Tel. 82-31-260-0098 / Fax. 82-31-899-1788

This declaration is issued under the sole responsibility of the manufacturer and, if applicable, his authorized Representative, and is marked in accordance with the CE marking directive 93/68/EEC.

Point of contact :

HYUNDAI MOBIS Co., Ltd. Tel. 82-31-260-0098 / Fax. 82-31-899-1788
Seoul, Korea March 31, 2015

/ S. H. Choe
/ Director

Declaration of Conformity

We, manufacturer, hereby declare that the product

Model: AM112F2EE, AM110F2GG, AM110F2GN, AM110F2GE, AM110F2GL, AM111F2GG,
AM111F2GE, AM110F2EE
Type: DIGITAL CAR AUDIO SYSTEM

satisfies all the technical regulations applicable to the product within the scope of Council Directives 2006/95/EC, 2004/108/EC and 99/5/EC:

Radio: EN 300 328 V1.8.1(2012-06)
EMC: EN 55013 : 2013
EN 55020 : 2007 / A11 : 2011
ETSI EN 301 489-1 V 1.9.2
ETSI EN 301 489-17 V 2.2.1
Safety: EN 60065:2002 + A1:2008 + A11:2008 + A2:2010 + A12:2011

All essential radio test suites have been carried out.

Testing laboratory: DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea, 449-935
Tel. +82 31 321 2664 / Fax. +82 31 321 1664

Authorized representative or manufacturer:

HYUNDAI MOBIS Co., Ltd.
203, Teheran-ro, Gangnam-gu, Seoul, 135-977, Korea
Tel. 82-31-260-0098 / Fax. 82-31-899-1788

This declaration is issued under the sole responsibility of the manufacturer and, if applicable, his authorized Representative, and is marked in accordance with the CE marking directive 93/68/EEC.

Point of contact :

HYUNDAI MOBIS Co., Ltd. Tel. 82-31-260-0098 / Fax. 82-31-899-1788
Seoul, Korea March 31, 2015

/ S. H. Choe
/ Director

Declaration of Conformity

We, manufacturer, hereby declare that the product

Model: AM212F2EE, AM210F2GG, AM210F2GN, AM210F2GE, AM210F2GL, AM211F2GG,
AM211F2GE, AM210F2EE
Type: DIGITAL CAR AUDIO SYSTEM

satisfies all the technical regulations applicable to the product within the scope of Council Directives 2006/95/EC, 2004/108/EC and 99/5/EC:

Radio: EN 300 328 V.1.8.1(2012-06)
EMC: EN 55013 : 2013
EN 55020 : 2007 / A11 : 2011
ETSI EN 301 489-1 V.1.9.2
ETSI EN 301 489-17 V.2.2.1
Safety: EN 60065:2002 + A1:2008 + A11:2008 + A2:2010 + A12:2011

All essential radio test suites have been carried out.

Testing laboratory: DT&C Co., Ltd.

42, Yurim-ro, 154beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea, 449-935
Tel. +82 31 321 2694 / Fax. +82 31 321 1664

Authorized representative or manufacturer:

HYUNDAI MOBIS Co., Ltd.
203, Teheran-ro, Gangnam-gu, Seoul, 135-977, Korea
Tel. 82-31-260-0098 / Fax. 82-31-899-1788

This declaration is issued under the sole responsibility of the manufacturer and, if applicable, his authorized Representative, and is marked in accordance with the CE marking directive 93/68/EEC.

Point of contact :

HYUNDAI MOBIS Co., Ltd. Tel. 82-31-260-0098 / Fax. 82-31-899-1788

Seoul, Korea March 31, 2015





/ S. H. Choe
/ Director

NCC for Taiwan

根據交通部低功率電波輻射性電機管理辦法 規定：	
第十二條	經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。
第十四條	低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。 前項合法通信，指依電信法規定作業之無線電通信。 低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

ACMA for Australia

Declaration of Conformity

We, manufacturer, hereby declare that the product

Model: AC112F2EE, AC100F2GG, AC110F2GG, AC100F2GN, AC110F2GN, AC100F2GE,
AC110F2GE, AC100F2GL, AC110F2GL, AC101F2GG, AC111F2GG, AC101F2GE, AC111F2GE,
AC100F2EE, AC110F2EE, AC102F2EE
Type: DIGITAL CAR AUDIO SYSTEM

satisfies all the technical regulation applicable to the product within the standards of Australia
and New Zealand :

Radio: AS/NZS 4771:2000
EMC: AS/NZS CISPR13:2012

All essential test suites have been carried out.

Testing laboratory: Dt&C Co., Ltd.
42, Yurim-ro, 154beon-gil, Cheoin-pu, Yongin-si, Gyeonggi-do, Korea, 449-935
Tel. +82 31 321 2664 / Fax. +82 31 321 1664

Authorized representative or manufacturer:
Hyundai Mobis Co., Ltd.
203, Teheran-ro, Gangnam-gu, Seoul, 135-977, Korea
Jincheon plant 95, Sayang 2-Gil, Munbaek-Myeon, Jincheon-Gun, Chungcheongbuk-Do 365-862 Korea
Tel. 82-31-260-0098 / Fax. 82-31-899-1788

This declaration is issued under the sole responsibility of the manufacturer and, if applicable, his
authorised representative.

Point of contact:
Hyundai Mobis Co., Ltd. Tel. 82-31-260-0098 / Fax. 82-31-899-1788
Seoul, Korea May 07, 2015.

 
/ S. H. Choe
/ Director

NXXX

Declaration of Conformity

We, manufacturer, hereby declare that the product

Model: AM112F2EE, AM110F2GG, AM110F2GN, AM110F2GE, AM110F2GL, AM111F2GG,
AM111F2GE, AM110F2EE
Type: DIGITAL CAR AUDIO SYSTEM

satisfies all the technical regulation applicable to the product within the standards of Australia
and New Zealand :

Radio: AS/NZS 4771:2000
EMC: AS/NZS CISPR13:2012

All essential test suites have been carried out.

Testing laboratory: Dt&C Co., Ltd.
42, Yurim-ro, 154beon-gil, Cheoin-pu, Yongin-si, Gyeonggi-do, Korea, 449-935
Tel. +82 31 321 2664 / Fax. +82 31 321 1664

Authorized representative or manufacturer:
Hyundai Mobis Co., Ltd.
203, Teheran-ro, Gangnam-gu, Seoul, 135-977, Korea
Jincheon plant 95, Sayang 2-Gil, Munbaek-Myeon, Jincheon-Gun, Chungcheongbuk-Do 365-862 Korea
Tel. 82-31-260-0098 / Fax. 82-31-899-1788

This declaration is issued under the sole responsibility of the manufacturer and, if applicable, his
authorised representative.

Point of contact:
Hyundai Mobis Co., Ltd. Tel. 82-31-260-0098 / Fax. 82-31-899-1788
Seoul, Korea May 07, 2015.

 
/ S. H. Choe
/ Director

NXXX

Declaration of Conformity

We, manufacturer, hereby declare that the product

Model: AM212F2EE, AM210F2GG, AM210F2GN, AM210F2GE, AM210F2GL, AM211F2GG,
AM211F2GE, AM210F2EE
Type: DIGITAL CAR AUDIO SYSTEM

satisfies all the technical regulation applicable to the product within the standards of Australia
and New Zealand :

Radio: AS/NZS 4771:2000

EMC: AS/NZS CISPR13:2012

All essential test suites have been carried out.

Testing laboratory: Dt&C Co., Ltd.

42, Yurin-ro, 154beon-gil, Cheoin-mu, Yongin-si, Gyeonggi-do, Korea, 449-935
Tel. +82 31 321 2664 / Fax. +82 31 321 1664

Authorized representative or manufacturer:

Hyundai Mobis Co., Ltd.
203, Teheran-ro, Gangnam-gu, Seoul, 135-977, Korea
Incheon plant 95, Saeang 2-Gil, Munbeek-Myeon, Incheon-Gun, Chungcheongbuk-Do, 365-862 Korea
Tel. 82-31-260-0098 / Fax. 82-31-899-1788

This declaration is issued under the sole responsibility of the manufacturer and, if applicable, his
authorised representative.

Point of contact:

Hyundai Mobis Co., Ltd. Tel. 82-31-260-0098 / Fax. 82-31-899-1788

Seoul, Korea May 07, 2015.



최능훈
/ S. H. Choe
/ Director

NXXX

ANATEL for Brazil

ANATEL Homologation

Hyundai MOBIS Co., Ltd.
AC110F2GN

“Este produto está homologado pela ANATEL, de acordo com os procedimentos regulamentados pela resolução nº . 242/2000 e atende aos requisitos técnicos e aplicados”

“Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.”

Para maiores informações, consulte o site da ANATEL
www.anatel.gov.br

Modelo : **AC110F2GN**



2171-15-4902



(01)07898579800434

“Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário”

ANATEL Homologation

Hyundai MOBIS Co., Ltd.
AM110F2GN

“Este produto está homologado pela ANATEL, de acordo com os procedimentos regulamentados pela resolução nº . 242/2000 e atende aos requisitos técnicos e aplicados”

“Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.”

Para maiores informações, consulte o site da ANATEL
www.anatel.gov.br

Modelo : **AM110F2GN**



2172-15-4902



(01)07898579800441

“Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário”

ANATEL Homologation

Hyundai MOBIS Co., Ltd.
AM210F2GN

“Este produto está homologado pela ANATEL, de acordo com os procedimentos regulamentados pela resolução nº . 242/2000 e atende aos requisitos técnicos e aplicados”

“Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.”

Para maiores informações, consulte o site da ANATEL
www.anatel.gov.br

Modelo : **AM210F2GN**



2170-15-4902



(01)07898579800458

“Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário”

SMA for Jamaica

This product has been Type Approved by Jamaica : SMA-AM210F2GN

This product has been Type Approved by Jamaica : SMA-AM110F2GN

This product has been Type Approved by Jamaica : SMA-AC110F2GN

IFETEL for Mexico

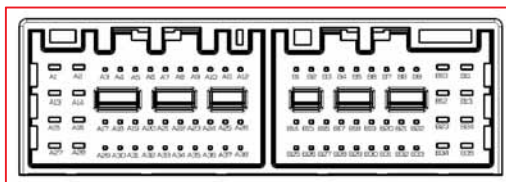
<IFETEL Operation Guide>

“La operación de este equipo está sujeta a las siguientes dos condiciones :
(1)es posible que este equipo o dispositivo no cause interferencia perjudicial y
(2)este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.”

MOC for Israel

מספר אישור אלחוטי של משרד התקשורת הוא 51-48522
אסור להחליף את האנטנה המקורית של המכשיר,
ולא לעשות בו כל שינוי טכני אחר.

מספר אישור אלחוטי של משרד התקשורת הוא 51-48818
אסור להחליף את האנטנה המקורית של המכשיר,
ולא לעשות בו כל שינוי טכני אחר.



PIN NO	SIGNAL	PIN NO	SIGNAL	PIN NO	SIGNAL	PIN NO	SIGNAL
A1	NC	A20	NC	B1	NC	B20	NC (MM_CAN-)
A2	NC	A21	NC	B2	MIC+	B21	NC
A3	USB_DATA_HI	A22	NC	B3	NC	B22	ACC
A4	USB_DATA_LO	A23	NC	B4	NC	B23	NC
A5	USB_VCC	A24	AUX_AUDIO_L	B5	NC	B24	NC
A6	NC	A25	AUX_AUDIO_GND	B6	ILL+	B25	NC
A7	NC	A26	S/WHEEL_KEY_GND	B7	NC (MM_CAN+)	B26	NC
A8	NC	A27	NC	B8	NC	B27	NC
A9	AUX_AUDIO_R	A28	NC	B9	NC	B28	NC
A10	AUX_DETECT	A29	NC	B10	BATT+	B29	NC
A11	S/WHEEL_KEY	A30	NC	B11	BATT+	B30	NC
A12	DR_SPKR_FRT_LEFT(+)	A31	NC	B12	GND	B31	NC
A13	DR_SPKR_FRT_LEFT(-)	A32	NC	B13	GND	B32	NC
A14	DR_SPKR_FRT_RIGHT(-)	A33	NC	B14	NC	B33	NC
A15	DR_SPKR_FRT_RIGHT(+)	A34	NC	B15	MIC-	B34	NC
A16	FR+	A35	NC	B16	NC	B35	NC
A17	NC	A36	NC	B17	NC		
A18	NC	A37	NC	B18	SPEED		
A19	NC	A38	NC	B19	ILL-		

POWER

Voltage	14.4 V (9 ~ 16 V) Negative ground
Size (W×H×D)	213 X 208 X 104(mm)
Weight	Tape-1: 19kg Tape-2: 21kg

TUNER

FM	
Frequency	87.5 ~ 108 (MHz)
Sensitivity (MONO) (30dB S/N)	Less than 10 dBμV
Signal to Noise Ratio	More than 50 dB
Stereo	More than 20 dB
AM	
Frequency	531 ~ 1602 (KHz)
Sensitivity (20dB S/N)	Less than 35 dBμV EMF
Signal to Noise Ratio	More than 45 dB

AUDIO

Max Output	45W × 2 ch (POWER IC)
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CD

Standard	Optical
Bit	20 bit 직선식 양자화
Channel	2 Channel (STEREO)
Dynamic Range	More than 90 dB
Signal to Noise Ratio	More than 60 dB
Distortion Rate	Less than 0.3% (1 KHz)
Separation(1KHz)	More than 50 dB
회전 변동율	limit of determination