Android Auto™

About Android Auto™

Android Auto™ brings the most useful apps from your phone to your vehicle´s screen, optimized for easy glancing and control while driving. You will be able to control things like navigation, maps, calls, text messages, and music, all from your vehicle´s screen.

To learn about Android Auto™ and its features, visit the Android website at http://www.android.com/auto/

NOTE

• You can verify countries that support Android Auto through the website. This feature is unavailable in non-supported countries.
• Availability in supported countries may change without prior notice.

Precautions

• Android Auto™ extends the Android platform from your mobile phone into the car. When users connect their handheld devices running Android 5.0 or higher to a compatible vehicle, the Android Auto™ user interface provides a car-optimized Android experience on the car screen. Users may interact with compatible apps and services through voice actions and the car input controls.
• Android Auto™ will be unavailable if the version of communication protocol is not supported or your mobile phone is unable to be recognized due to a shutdown caused by a failure or defect in the device.
• If you repeatedly connect and disconnect the USB cable on the device in a short period of time, your phone may malfunction. This can also cause a device failure.
• With your mobile phone connected, Android Auto™ will appear on the car display. Available functions and operations may differ depending on the company model.
• Make sure the vehicle gear is in park and that you have time to set up Android Auto™ before driving and that you have time to set up Android Auto™.

• Android Auto™ features may operate differently than on your phone.
• Message and data charges may apply when using Android Auto™. Please check with your mobile phone company.
• Android Auto™ relies on the performance of your phone. If you experience performance issues:
  - Close all apps and then restart them
  - Disconnect and then reconnect your phone
• Using the micro USB cable that was provided with your phone is recommended.
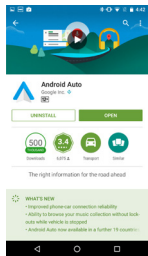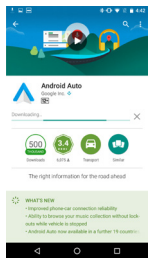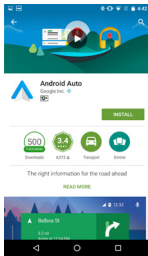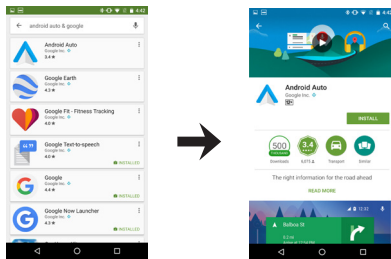
Android Auto help:
support.google.com/androidauto

What you need?

1. An Android phone running Android 5.0 (Lollipop) or higher with a data plan.
2. A vehicle that's compatible with Android Auto™.
3. A USB cable.

Android Auto™

Before starting Android Auto™

Installing the Android Auto™ Application

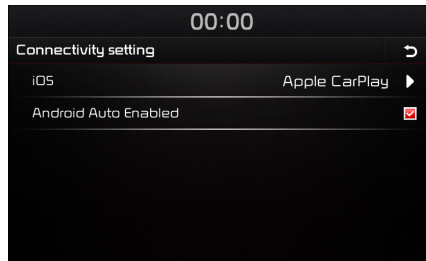Install Android Auto™ Application by following below procedure.

※ The screens shown in this manual may differ from the actual screens of Android phone.

Setting the system

Before connecting your mobile phone, check whether Android Auto is set to be used in Setup ▶ **Connectivity** .

Check the **Android Auto Enabled** box ▶ Press **OK** to turn the feature on.


NOTE

- The use of Android Auto™ can generate charges from your service provider for the use of applications that consume data.
- Android Auto™ is a registered trademark of Google, Inc.
- The design and the specifications of this guide is subject to change without notice.
- The screens that are shown in this manual can be different to the real screens of the product.
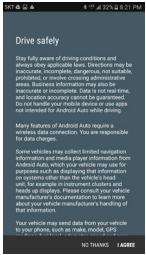
Starting mode

1. Unlock your mobile phone screen.
2. Connect your mobile phone to your vehicle using an original USB cable.
3. Touch [Accept] to turn on notifications in Android Auto™.
4. Updating mobile applications such as Google Maps is recommended.
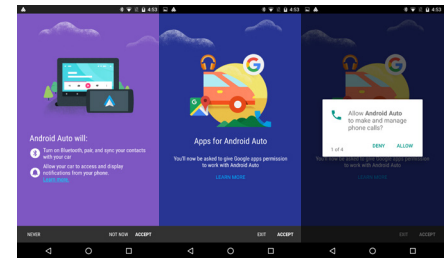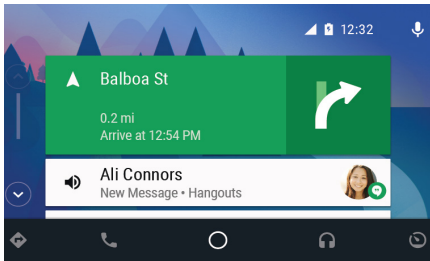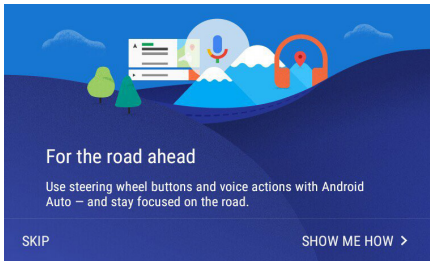

| 1. Accept screen | 2. Permission for apps | 3. Permission for mobile phone features |

※ The screens shown in this manual may differ from the actual screens of Android phone.

5. Review the Terms & Conditions from both your mobile phone and vehicle's device, and then ACCEPT to use Android Auto™. (It is required only the first time that the application is used.)
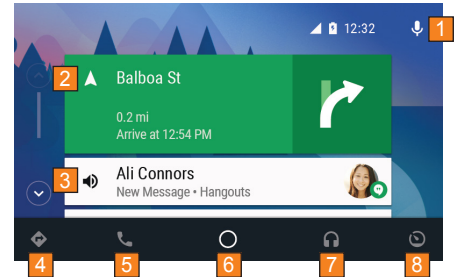
Android Auto™

ENGLISH

In smart phone

For the road ahead

Use steering wheel buttons and voice actions with Android Auto — and stay focused on the road.

SKIP   SHOW ME HOW >

NOTE

- Using the USB cable that was provided with your phone is recommended.
- The Functionality and performance of Audio-Video system of the vehicle may vary depending on the brand, model, and specifications of connected smart phones.
- Your phone might ask you to download or update certain apps, like Google Maps.
- If you're running Android 6.0 (Marshmallow) or higher, Bluetooth® will be turned on automatically when Android Auto™ is active.

Home Screen

No	Description
1	Microphone
2	Navigation suggestions and recent places
3	Reminders, messages, calls, and other alerts
4	Maps and navigation
5	Calls and messages
6	Home screen
7	Music and audio
8	Exit Android Auto

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Android Auto™

Talk to Google

1. Press the microphone [🎤] button on the display or press and hold the [📞] Call key on your steering wheel until you hear the beep.
2. Say commands you want to use. Then you can do things like send or reply to a text, search for a location, make a call, or play your music.

Return to your car's Media screen

Press the [🔘] button on the display.

Return to the Android Auto Home screen

Press the [⭕] button on the display.

NOTE

• Wireless signal reception may vary, reception dependent features may temporarily pause then resume when signal strength has been regained.

Apple CarPlay

About Apple CarPlay

- CarPlay puts key iPhone apps - the ones you want to use while driving - on your car's built-in display. With CarPlay, you can get turn-by-turn directions, make phone calls, exchange text messages, listen to music, and more. Apple CarPlay is available on select automobiles navigation systems, and works with iPhone 5 or higher with iOS 7.1 or higher.
- You operate CarPlay using your car's built-in controls - a touchscreen, a rotary knob controller, or both. To learn how to operate your display, see the user guide that came with your car. Or just use Siri voice control to tell CarPlay what you want. In fact, Siri often steps in automatically to help you, depending on the app you're using.

For more information, refer to the iPhone manual or visit the Apple website.

Precautions

- Apple CarPlay is unavailable if the version of communication protocol is not supported or your phone is unable to be recognized due to a shutdown caused by a failure or defect in the device itself.
- Your phone may not be recognized if its battery is low. Charge your phone then try again.
- If your phone is shut down due to a defect in the device itself, reset your phone and try again.
- If you repeatedly connect and disconnect the USB cable on the device in a short period of time, your phone may malfunction. This can also cause a device failure.
- The device recognition time may differ depending on the device type and firmware/OS version.
- When using this feature, the use of a dedicated cable is recommended. (Using a non-genuine product may cause noise or malfunction.)
- Apple CarPlay may not operate normally due to mobile phone issues.

What you need?

1. An iPhone5 or higher.
2. Apple® Lightning to USB Cable recommended
   *Duplicate USB cables may effect connection.
3. A USB cable.

Before starting Apple CarPlay

Setting Siri on the iPhone

Siri must be enabled on your iPhone. If Siri is turned off, a notice will be displayed.
Go to Settings ▶ General ▶ Siri ▶ Turn on Siri.

CarPlay Not Available

To use CarPlay, enable Siri in the
Settings app on your iPhone

Cancel
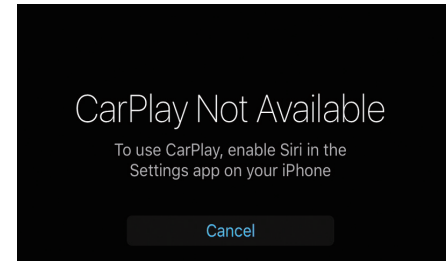
Setting the system

Before connecting your mobile phone, check whether Apple CarPlay is set to be used in Setup ▶ Connectivity ▶ iOS .
Check Apple CarPlay .

Apple CarPlay
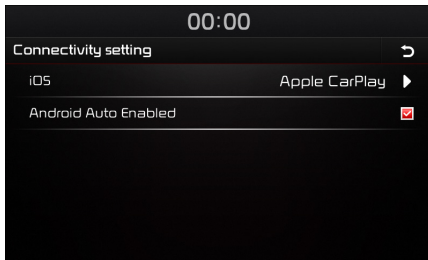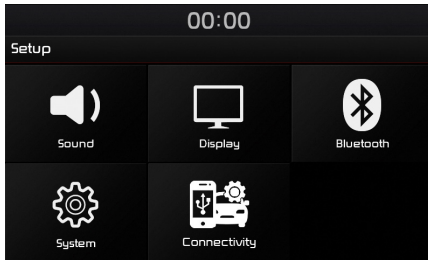
Starting mode

Connect your phone to your car using a USB cable. The CarPlay Home screen will be displayed automatically.
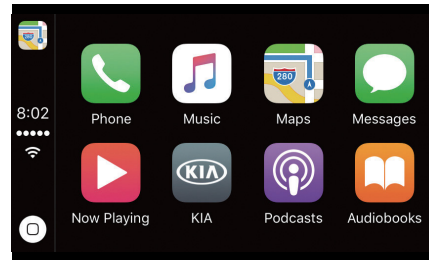
When in a different mode, press Media ▶ Apple CarPlay.
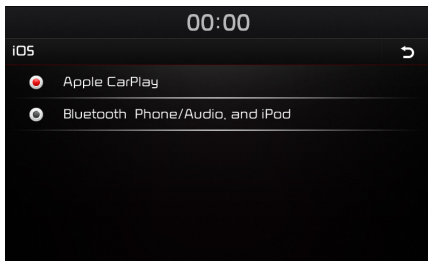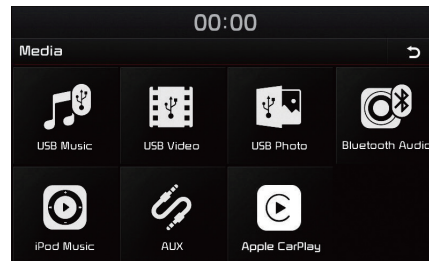

Home Screen
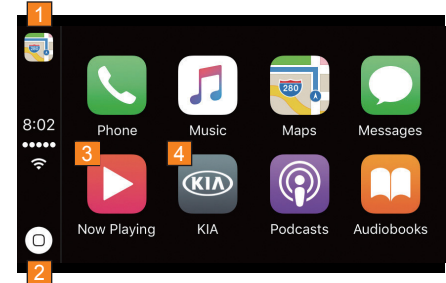
No	Description
1	Return to a call, or to turn-by-turn directions
2	Home button
3	View current audio source
4	Return to your car's Home screen

NOTE

• Map and Turn by Turn features are available only in countries supported by Apple (check link for information on supported countries). (http://www.apple.com/ios/feature-availability/#applecarplayapplecarplay)
• The position of the Home button changes according to driver seat location.

Apple CarPlay

Speak to Siri

Press and hold the [icon] button on the steering wheel, or touch and hold the Home button on the CarPlay Home screen, until Siri beeps.
Then say commands you want to use. Then you can do things like send or reply to a text, search for a location, make a call, or play your music.

Open an app

Tap the app on the touchscreen.

Return to the CarPlay Home screen

Tap the Home button on the touchscreen.

Return to your car's screen

Tap the car logo. Or press the ▐ HOME ▌ key or the desired key on the device.

View additional apps

If you have more than eight apps, some apps may appear on another page of the Home screen. Swipe left on the touchscreen.

Return to a phone call or to turn-by-turn directions

Tap the icon in the upper-left corner of the touchscreen.

View and control the current audio source

Tap Now Playing to see the current audio app.

Setup

Starting mode

Press the SETUP key to display the Setup screen.

```
00:00
Setup
Sound    Display    Bluetooth
System   Connectivity
```

Sound

This menu is used to adjust the sound effects for the whole system.
Press the SETUP key ▶ Press the Sound button.

```
00:00
Sound settings
Sound Balance                          ▶
Variable EQ                  Normal     ▶
Volume setting                         ▶
Beep                                   ☑
```
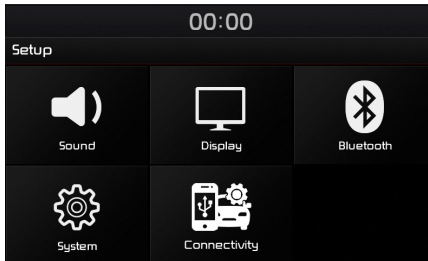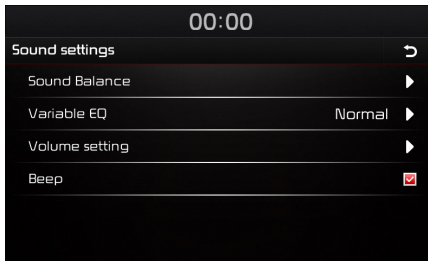
Sound Balance

In Sound settings screen ▶ Press the Sound Balance button ▶ Set the desired sound balance.

```
00:00
Sound balance
BAS [0]   +10
MID [0]    +5
           0          0
          -5
TRE [0]  -10
Reset              Reset
```
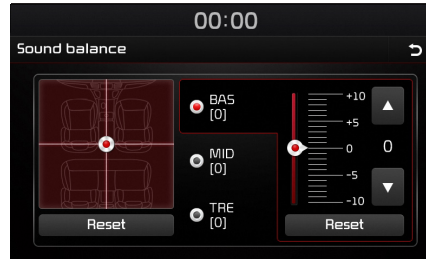
Use the ▲ , ▼ , ◉ , and ◉ buttons to adjust settings.
Press the Reset to restore sound to the center position.

Variable EQ

In Sound settings screen ▶ Press the Variable EQ ▶ Set the desired mode.

```
00:00
Variable EQ
                            ◉ Normal
                            ◉ Classic
                            ◉ Jazz
64Hz 250Hz 500Hz 1kHz 4kHz 14kHz  ◉ Rock
```
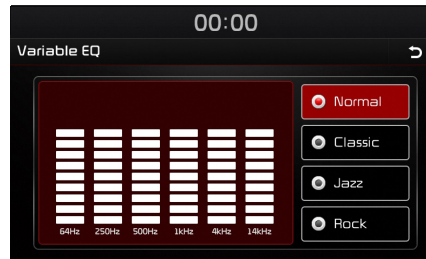
Volume setting

In Sound settings screen ▶ Press the Volume setting button ▶ Set the desired volume.

```
00:00
Volume
1 ◉ Phone      [9]    45
                      30
2 ◉ Start up   [9]    15    9
                       0
                    Reset
```
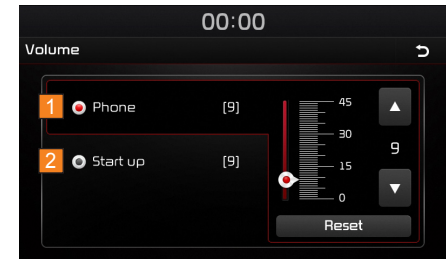
Name	Description
1 Phone	Controls the volume related to phone.
2 Start up	Controls the audio volume when starting the system.

Use the ▲ , ▼ and ◉ buttons to adjust settings. Press the Reset to initialize the settings.

■ Setup

Beep

This menu allows you to play a beep sound whenever you operate the touch screen.

In Sound settings screen ▶ Press the Beep to turn on/off.

```
                    00:00
Sound settings                          ↺
  Sound Balance                         ▶
  Variable EQ                  Normal   ▶
  Volume setting                        ▶
  Beep                                  ☑
```
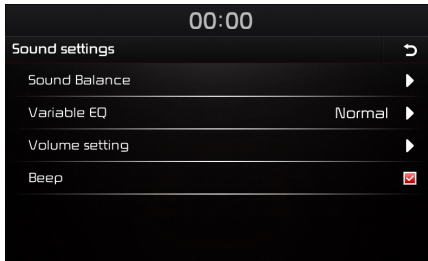
Display

This menu allows you to adjust the brightness and set the dimming mode for the whole system.
Press the SETUP key ▶ Press the Display button.

```
                    00:00
Display settings                        ↺
  Brightness                            ▶
  Dimming mode                   Auto   ▶
```
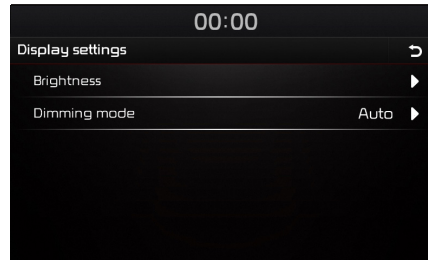
Brightness

In Display settings screen ▶ Press the Brightness button ▶ Set the desired brightness.

```
                    00:00
Brightness                              ↺

  ● Brightness        [0]      +10   ▲
                               +5
                            ● 0        0
                               -5
                               -10   ▼
                                    Reset
```

Use the ▲ , ▼ and ● buttons to adjust settings.
Press the Reset to initialize the settings.

■ Setup

Dimming mode

This menu allows you to set the brightness according to mode changes.

In Display settings screen ▶ Press the `Dimming mode` button ▶ Set the desired mode.
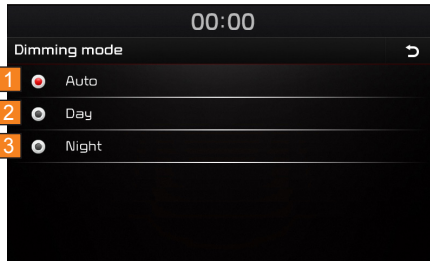
Name	Description
1 Auto	Adjusts the brightness automatically according to surrounding brightness.
2 Day	Brightness level always set on high.
3 Night	Brightness level always set on low.

Bluetooth settings

This menu allow you to set Bluetooth® settings. Press the `SETUP` key ▶ Press the `Bluetooth` button.
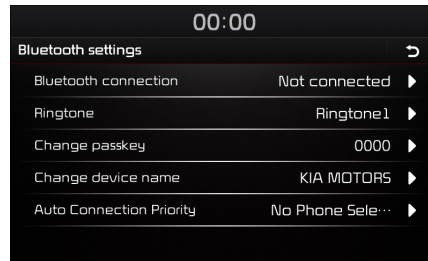
Bluetooth® connection

This menu allow you to manage the Bluetooth® device list, such as pairing, connecting or deleting Bluetooth® devices.

In Bluetooth® settings screen ▶ Press the `Bluetooth connection` button ▶ Set the desired settings.
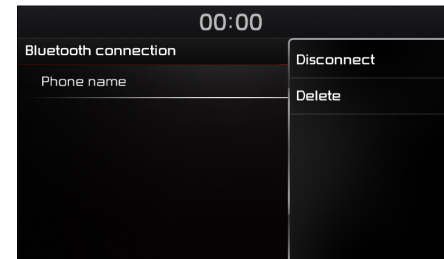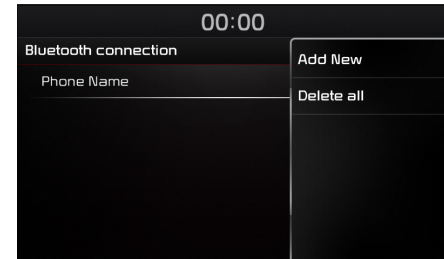
Press and hold the phone name to disconnect/delete the device.

Setup

Ringtone

The configured ringtone is played through the vehicle speakers when you receive a call.

In Bluetooth® settings screen ▶ Press the Ringtone button ▶ Set the desired ringtone.

Change passkey

This feature allows you to change the passkey used for Bluetooth® device authentication.

In Bluetooth® settings screen ▶ Press the Change passkey button ▶ Enter the passkey.
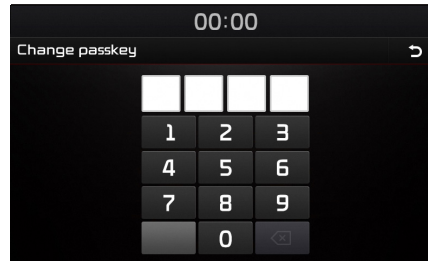
NOTE

• The default passkey is 0000.

Changing device name

In Bluetooth® settings screen ▶ Press the Change device name button ▶ Enter the name.

NOTE

• The default device name is KIA MOTORS.

■ Setup

Auto Connection Priority

The Bluetooth® device will automatically be connected according to the option set when the car ignition is turned on.
In Bluetooth® settings screen ▶ Press the `Auto Connections Priority` button ▶ Set the desired settings.
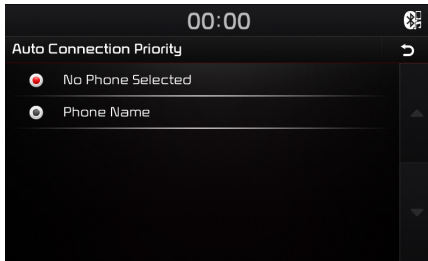
NOTE

• If you press `No Phone Selected`, the most recently connected Bluetooth® phone will connect automatically.

System

Press the `SETUP` key ▶ Press the `System` button.
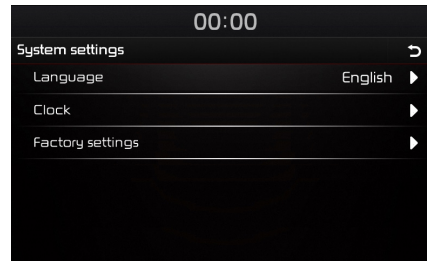
Language

This menu allows you to set the language of the system.
In System settings screen ▶ Press the `Language` button ▶ Press the desired language.
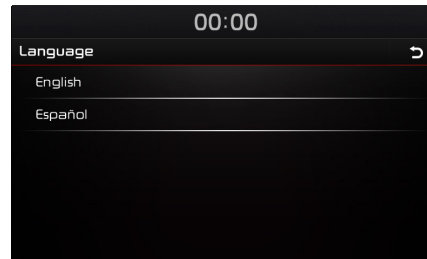
Clock

In System settings screen ▶ Press the `Clock` button ▶ Set the desired settings.
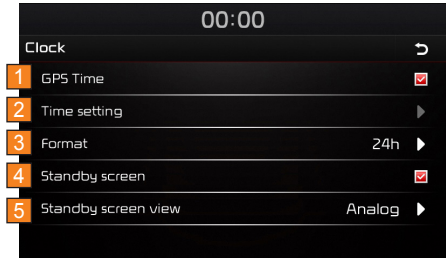
Button	Description
1 GPS Time	Displays time according to the received GPS time.
2 Time setting	Sets the current time.
3 Format	Converts the digital clock display to 12 or 24 hours.
4 Standby screen	Turns on/off the screen displayed when the system power is turned off.
5 Standby screen view	Sets the type of Standby screen.

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■ Setup

Factory settings

This menu allows you to reset settings specified by the user.

In System settings screen ▶ Press the `Factory settings` button ▶ Press the desired item ▶ Press the 🐾 ▶ Press the `YES`.

```
                00:00
Factory settings                        ↺
   ☐  All
   ☐  Phone
   ☐  Radio-Media-Sound
   ☐  Setup
```

```
                00:00
Factory settings                  🐾    ↺
   ☐  All
   ☐  Phone
   ☐  Radio-Media-Sound
   ☑  Setup
```
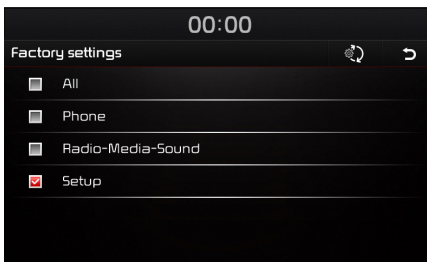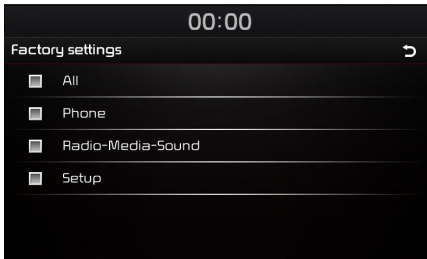
Connectivity

This menu allows you to set the car connectivity of your system.

In System settings screen ▶ Press the `Connectivity` button ▶ Press the desired settings.

```
                00:00
Connectivity setting                    ↺
   iOS                    Apple CarPlay  ▶
   Android Auto Enabled                  ☑
```
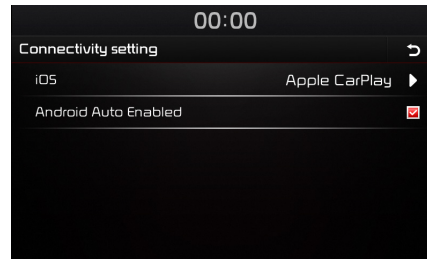
■ Specification

USB MP3 Specification

Category	Description
MP3 File Specification	Response Specification: MPEG1 AUDIO LAYER3
Recommended Bitrate and Sampling Frequency	Response Sampling Frequency : 32, 44.1, 48 (KHz)
	Response Bitrate: 32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192 ,224 ,256 ,320 (Kbps)
ID3 TAG	ID3 v1.1 and ID3 v2.x TAG
Detailed Specification	• Max Directory Layers: 15 layers • Max length of folder names and file names: 255Bytes • Characters supported for folder/file names: English, Español and numbers • Max number of files recognized from one USB device: 5000

Video and Image Specification

Category	Description
File Format	AVI(DivX), MPEG
Image Format	jpg, gif, bmp, png
Extensions	avi, divx, mpg, mpeg, mp4, wmv
Supported Image Resolution	Max 4000x3000
Supported Image File Size	Max 4 Mbytes
Supported image zoom in/out	Max 300%
Video Codec	MPEG4-ASP, MPEG4-AVC(H.264), AVS, VP8
Video Resolution	1920 x 1080 (WMV 9: Max 8Mbps, 1280x720, WMV 8: 640x480)
Audio Codec	MP3, OGG, WMA … (AC3 not Supported)
Subtitles	SMI
Unsupported files	• Files not compatible with supported specifications • Modified files (files with modified file formats) • Transformed files (example: AVI files encoded with WMV video codec) • Files without indexes

Specification

TFT-LCD

Screen Size	8.0 inches(203.2mm) diagonal
Resolution	384,000 pixels (Resolution : 800 x 480)
Viewing Angle	Left/Right, Top/Bottom: (89°, 89°, 89°, 89°)
Internal Lighting	LED

Radio

Channels	FM: 87.5MHz ~ 108.0MHz(Step: 50KHz)
	AM:522 kHz ~ 1620kHz(Step: 9kHz)
Sensitivity	FM : Under 10 dBuV / AM: Under 35dBu EMF
Distortion Factor	Within 2%

Bluetooth® Wireless Technology

Frequency Range :	2400 ~ 2483.5 Mhz
Supported Bluetooth Specification :	2.1+EDR
Supported Profile :	HFP (1.6) , A2DP (1.3) , AVRCP (1.5) , PBAP(1.2)
Bluetooth Power	Class2
Number of Channels :	79 channels

Common

Power Supply	DC 14.4V	Operating Power	DC 9V ~ DC 16V
Sleep Current	LESS THAN 1mA		
Operating Temperature	-20 ~ +70 ℃ (-4 ~ +158℉)	Storage Temperature	-30 ~ +80 ℃ (-22 ~ +176℉)
Dimension	W208 x H138.5 x D174.7 mm		
Current Consumption	10A		

Trouble shooting

1. Errors which occur during the operation or installation of the device may be mistaken as a malfunction of the actual device.
2. If you are having problems with the device, try the suggestions listed below.
3. If the problems persist, contact your dealer

Problem	Possible Cause
There are small red, blue, or green dots on the screen	Because the LCD is manufactured with technology requiring high point density, a pixel or lighting deficiency may occur within 0.01% of total pixels.
The sound or image is not working	• Has the Switch for the vehicle been turned to [ACC] or [ON]? • Has the SYSTEM been turned OFF?
The screen is being displayed but sound is not working	• Has the volume been set to a low level? • Has the volume been muted?
When the power is turned on, the corners of the screen are dark	• The display appearing somewhat dark after prolonged periods of use is normal with LCD panels. It is not a malfunction. • If the screen is very dark, contact your nearest dealer for assistance.
Sound is working from only one speaker	Are the positions of Fader or Balance sound controls adjusted to only one side?
Sound does not work in AUX mode	Are the audio connector jacks fully inserted into the AUX terminal?
The external device is not working	Is the external device connected with a standard connector cable?
When turning power on, the most recent mode screen is not displayed	Within modes that play files by reading external sources, such as USB, iPod®, or Bluetooth® streaming mode, the most recently played mode screen prior to turning off power may not properly load. • If the corresponding device is not connected, the mode operated prior to the most recent mode will operate. • If the previous mode still cannot be properly played, the mode operated prior to that will operate.

▌ Trouble shooting

Problem	Possible Cause	Countermeasure
The power does not turn on.	The fuse is disconnected.	• Replace with a suitable fuse. • If the fuse is disconnected again, please contact your point of purchase or service center.
	Device is not properly connected.	Check to see that the device has been properly connected.
The system does not play.	The vehicle battery is low.	Charge the battery if the problem persists, contact your point of purchase or service center.
The image colour/ tone quality is low.	The brightness, and contrast levels are not set properly.	Properly adjust the brightness, and contrast levels through Display Setup.
Sound does not work.	The volume level is set to the lowest level.	Adjust the volume level.
	The connection is not proper.	Check to see that the device has been properly connected.
	The device is currently fast-forwarding, rewinding, scanning, or playing in slow mode.	The sound will not work when the device is fast-forwarding, rewinding, scanning, or playing in slow mode.

Trouble shooting

Problem	Possible Cause	Countermeasure
The sound or image quality is low.	Vibration is occurring from where the conversion switch has been installed.	The sound may be short circuited and the image distorted if the device vibrates.
	Image colour/tone quality is low.	The device will return to normal once vibrations stop.
The USB does not work	USB memory is damaged.	Please use after formatting the USB into FAT 12/16/32 format.
	USB memory has been contaminated.	Remove any foreign substances on the contact surface of the USB memory and multimedia terminal.
	A separately purchased USB HUB is being used.	Directly connect the USB memory with the multimedia terminal on the vehicle.
	A USB extension cable is being used.	Directly connect the USB memory with the multimedia terminal on the vehicle.
	A USB which is not a Metal Cover Type USB Memory is being used.	Use standard USB Memory.
	An HDD type, CF, SD Memory is being used.	Use standard USB Memory.
	There are no music files which can be played.	Only MP3, WMA file formats are supported. Please use only the supported music file formats.
The iPod® is not recognised even though it has been connected	There are no titles which can be played.	Use iTunes to download and save MP3 files into the iPod®.
	The iPod® firmware version has not been properly updated.	Use iTunes to update the firmware version and reconnect the iPod® with the device.
	The iPod® device does not recognise downloads.	Reset the iPod® and reconnect with the device.

LIMITED WARRANTY
ORIGINAL HEAD UNIT SUPPLIED BY VEHICLE DEALER

Product :
Product No. :

WHAT THIS WARRANTY COVERS

1. Vehicle Dealer Shop ("Dealer") warrants to you that the Hardware will be free from defects in workmanship and materials under Normal use ("Defects") from the original date of the registration of the motor vehicle ("Warranty Period"). During the Warranty Period the Hardware will be repaired or replaced at DEALER's choice ("Limited Warranty") without charge to you for either parts or labor. This Limited Warranty covers the replacement of the head unit including of the Hardware only.

Period Warranty	Mileage Warranty
3years	60,000 km
*Whichever Occurs earlier.	

*The term of the warranty shall commence from the date of delivery of the new vehicle to the first purchaser.

WHAT THIS WARRANTY DOES NOT COVER

2. The Limited Warranty does not apply to normal wear and tear, does not apply when the Hardware is opened or repaired by someone liquids, proximity or exposure to heat and accident, abuse, non-compliance with the instructions supplied with the Hardware, neglect or misapplication. The Limited Warranty does not cover physical damage to the surface of the Hardware. This Limited Warranty does not cover any software that may accompany or be installed on the Hardware.
The Limited Warranty does not cover the installation, removal or maintenance of the Hardware or any costs related herewith.

HOW TO MAKE A WARRANTY CLAIM

3. In order to make a claim of a Defect, you must contact DEALER. If a defect arises and a valid claim under this Limited Warranty is received by DEALER after the first 3yrs/60,000 km of the Warranty Period, DEALER is entitled to charge you for any reasonable shipping and handling costs made in connection with the repair or replacement of the Hardware. You must comply with any other return procedures stipulated by DEALER, if any.

Limited Warranty

DEALER LIMITED WARRANTY

YOUR LEGAL RIGHTS

4. Some countries may not allow the exclusion or limitation of damages. If any part of this Limited Warranty is held to be invalid or unenforceable, the remainder of the Limited Warranty shall nonetheless remain in full force and effect.

5. This Limited Warranty is the only express warranty made to you and is provided in place of any other express warranties or similar obligations (if any) created by any advertising, documentation, packaging, or other communications.

6. Except for the Limited Warranty and to the maximum extent permitted by applicable law, DEALER and its suppliers provide the Hardware "AS IS AND WITH ALL FAULTS", and hereby disclaim all other warranties and conditions, whether express, implied or statutory, including, but not limited to, any (if any) implied warranties, duties or conditions of satisfactory quality, of fitness for a particular purpose, of reliability or availability, of accuracy or completeness of responses, of results, of workmanlike effort, of lack of viruses, and of reasonable care and skill, all with regard to the Hardware, and the provision of or failure to provide support or other services, information, software, and related content through the Hardware or otherwise arising out of the use of the Hardware. Also, there is no warranty or condition of quiet enjoyment, quiet possession, or non-infringement with regard to the Hardware.

7. This Limited Warranty does not affect any legal rights under applicable national legislation governing the sale of consumer goods.

8. This Limited Warranty cannot be transferred to any other person.

LIMITATION OF LIABILITY

9. Neither DEALER nor its suppliers shall be liable to you or to any third party for any damages either direct, indirect, incidental, consequential or otherwise (including in each case, but not limited to, damages for the inability to use the equipment or access data, loss of data, loss of business, loss of profits, business interruption or the like) arising out of the use of or inability to use the Hardware even if DEALER has been advised of the possibility of such damages.

10. Notwithstanding any damages that you might incur for any reason whatsoever, the entire liability of DEALER and any of its suppliers shall be limited to the amount actually paid by you for the Hardware.

11. DEALER shall not be liable for

   (I) any fraud on the part of its employees and/or agents; or

   (II) any fraudulent misrepresentation on the part of its employees and/or agents.

12. Notwithstanding the above, neither party's liability for death or personal injury resulting from its own negligence shall be limited.

FCC Warning

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

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

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

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.

Caution: Any changes or modifications to this device not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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

This equipment should be installed and operated with minimum 20 cm between the radiator 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.