

Operation Manual

Smartphone Receiver

SPH-DA120

Be sure to read **Important Information for the User** first!

Important Information for the User includes the important information that you must understand before using this product.

MirrorLink

AppRadio
MODE

English

Thank you for buying this Pioneer product.

Please read through these instructions so you will know how to operate your model properly. *After you have finished reading the instructions, keep this document in a safe place for future reference.*



Important

The screens shown in the examples may differ from actual screens, which may be changed without notice for performance and function improvements.

01 Introduction

Manual overview 7

- How to use this manual 7
- Conventions used in this manual 7
- Terms used in this manual 7

Notes on internal memory 7

- Before removing the vehicle battery 7
- Data subject to erasure 7

02 Basic operation

Checking part names and functions 8

Connecting media 8

- Connecting and disconnecting an iPod 8
- Plugging and unplugging a USB storage device 8

Startup and termination 9

On first-time startup 9

Regular startup 9

Turning off the display 9

- When the application screen is available 9
- When the application screen is not available 9

How to use the screens 10

- Switching screens using the touch panel keys 10
- Switching screens using the buttons 11

Supported AV source 11

Displaying the AV operation screen 12

- Selecting a front source on the AV source selection screen 12
- Selecting a front source on the source list 12
- Selecting a rear source 13

Turning off the AV source 13

Changing the display order of source icons 13

Changing the display order of source keys 13

Using the touch panel 14

- Using the common touch panel keys 14
- Operating list screens 14
- Operating the time bar 14
- Operating the on-screen keyboard 15

03 Registering and connecting a Bluetooth device

Preparing communication devices 16

Registering your Bluetooth devices 16

- Searching for nearby Bluetooth devices 16
- Pairing from your Bluetooth devices 17
- Connecting to a Bluetooth device automatically 18
- Deleting a registered device 18

Connecting a registered Bluetooth device manually 19

Switching visibility 19

Entering the PIN code for Bluetooth wireless connection 19

Displaying the Bluetooth device address 20

Clearing the Bluetooth memory 20

Updating Bluetooth software 20

Displaying the Bluetooth software version 20

04 Using hands-free phoning

- Displaying the phone menu **22**
 - Touch panel keys **22**
 - Reading the screen **22**
- Making a phone call **23**
 - Direct dialling **23**
 - Calling a number in the phone book **23**
 - Dialling from the history **24**
 - Using the preset dial lists **25**
- Receiving a phone call **26**
 - Answering an incoming call **26**
- Minimising the dial confirmation screen **26**
- Changing the phone settings **26**
 - Answering a call automatically **26**
 - Switching the ring tone **27**
 - Inverting names in the phone book **27**
 - Setting the private mode **27**
 - Adjusting the other party's listening volume **27**
- Using the voice recognition function (for iPhone) **28**
- Notes for hands-free phoning **28**

05 iPod / iPhone or smartphone setup operation

- The basic flow of iPod / iPhone or smartphone setup **30**
- Setting the device connection method **30**
- iPod compatibility **30**
- Android™ device compatibility **31**
- Apple CarPlay compatibility **31**
- MirrorLink device compatibility **31**
- Information on the connections and functions for each device **32**

06 Using the radio

- Using the touch panel keys **34**
- Reading the screen **34**
- Starting procedure **35**

- Selecting a band **35**
- Manual tuning **35**
- Seek tuning **35**
- Selecting a preset channel from the preset channel list **36**
- Storing broadcast frequencies **36**
- Storing the strongest broadcast frequencies **36**
- Tuning into strong frequencies **36**
- Receiving traffic announcements **37**
- Using news programme interruption **38**
- Tuning into alternative frequencies **38**
- Limiting stations to regional programming **39**
- Switching Auto PI seek **39**
 - Activating the Auto PI seek for preset stations **39**
- Switching the sound quality of the FM tuner **39**
- Storing song information to an iPod (iTunes Tagging) **40**
- Operating with the buttons **40**

07 Playing compressed audio files

- Using the touch panel keys **41**
- Reading the screen **42**
- Starting procedure **42**
- Switching the browse mode **43**
- Selecting files from the file name list **43**
- Selecting a file from the list related to the song currently playing (link search) **43**
- Displaying the album list **44**
- Playing files in random order **44**
- Setting a repeat play range **44**
- Switching the media file type **44**
- Operating with the buttons **45**

08 Playing compressed video files

- Using the touch panel keys **46**
- Reading the screen **46**

- Starting procedure **47**
- Selecting files from the file name list **47**
- Setting a repeat play range **47**
- Slow motion playback **47**
- Switching the media file type **48**
- Operating with the buttons **48**

09 Playing compressed still image files

- Using the touch panel keys **49**
- Reading the screen **49**
- Starting procedure **50**
- Selecting files from the file name list **50**
- Playing files in random order **50**
- Setting a repeat play range **50**
- Switching the media file type **50**
- Setting the slideshow interval **51**
- Operating with the buttons **51**

10 Using an iPod

- Using the touch panel keys (for audio) **52**
- Using the touch panel keys (for video) **52**
- Reading the screen (for audio) **53**
- Reading the screen (for video) **53**
- Starting procedure **54**
- Setting the shuffle play **55**
- Setting a repeat play range **55**
- Selecting song or video sources from the playlist screen **55**
- Using this product's iPod function from your iPod **56**
- Changing the speed of audiobook playback **56**
- Displaying lists related to the song currently playing (link search) **57**
- Operating with the buttons **57**
- Playing back music from a music app other than iPod music, as the iPod source **57**
 - Using the touch panel keys **57**
 - Reading the screen **58**

11 Using your iPhone or smartphone applications

- Using AppRadio Mode **59**
 - Using the touch panel keys (App control side bar) **59**
 - Starting procedure **60**
 - Using the keyboard **61**
 - Adjusting the image size (For smartphone users) **62**
 - Displaying the image of your application (iPhone with 30-pin connector) **62**
 - Displaying the image of your application (iPhone with Lightning connector) **63**
 - Displaying the image of your application (smartphone) **63**
- Using Apple CarPlay **64**
 - Using the touch panel keys **64**
 - Starting procedure **65**
 - Setting the driving position **65**
 - Adjusting the volume **65**
- Using MirrorLink **65**
 - Using the touch panel keys (App control side bar) **66**
 - Starting procedure **66**
- Using the audio mix function **66**

12 Using a Bluetooth audio player

- Using the touch panel keys **68**
- Reading the screen **69**
- Starting procedure **69**
- Selecting files from the file name list **70**
- Playing files in random order **70**
- Setting a repeat play range **70**
- Operating with the buttons **70**

13 Using an HDMI source

- Using the touch panel keys **71**
- Reading the screen **71**

- Starting procedure 71
- 14 Using an AUX source**
- Using the touch panel keys 72
 - Reading the screen 72
 - Starting procedure 72
 - Setting the video signal 73
 - Switching the operation screen 73
- 15 Using AV input**
- Using the touch panel keys 74
 - Reading the screen 74
 - Starting procedure 74
 - Setting the video signal 75
- 16 Using MIXTRAX**
- Touch panel keys 76
 - Selecting an item to play songs 76
 - Selecting songs not to be played 76
 - Specifying the playback portion 77
 - Setting the flash pattern 77
- 17 System settings**
- Setting the FM tuning step 78
 - Activating the Bluetooth audio source 78
 - Setting the ever scroll 78
 - Setting AV input 78
 - Setting the rear view camera 79
 - Setting rear view camera activation 79
 - Setting the polarity of the rear view camera 80
 - Setting the camera for Camera View mode 80
 - Displaying the parking assist guidelines 80
 - Setting guidelines on the rear view image 81
 - Setting the safe mode 82
 - Turning off the demo screen 82
 - Selecting the system language 82
 - Setting the keyboard language with the application for iPhone 83
 - Setting the beep sound 83
 - Adjusting the picture 83
 - Displaying the firmware version 84
 - Updating firmware 84
 - Checking the connections of leads 85
- 18 Audio adjustments**
- Using fader/balance adjustment 86
 - Using balance adjustment 86
 - Switching sound muting/attenuation 87
 - Adjusting source levels 87
 - Adjusting the filter 89
 - Adjusting the front and rear speaker output 89
 - Using the subwoofer output 89
 - Selecting the listening position 90
 - Adjusting the speaker output levels finely 90
 - Adjusting the time alignment 91
 - Using the equaliser 93
 - Recalling equaliser curves 93
 - Customising the equaliser curves 93
 - Using the auto-adjusted equaliser 94
 - Adjusting the equaliser curve automatically (Auto EQ) 94
 - Before operating the Auto EQ function 94
 - Performing Auto EQ 95
- 19 Theme menu**
- Selecting the background display 97
 - Changing to the background display image stored on the USB storage device 97
 - Setting the illumination colour 98
 - Selecting the colour from the preset colours 98
 - Creating a user-defined colour 98

- Selecting the theme colour **98**
- Selecting the clock image **99**
- Changing the preinstalled splash screen **99**
 - Changing to the splash screen stored on the USB storage device **100**

20 Setting up the video player

- Displaying your DivX VOD registration code **101**
- Displaying your DivX VOD deregistration code **101**
- Setting the video signal for the rear view camera **101**
- Setting the video output format **102**

21 Favourite menu

- Creating a shortcut **103**
- Selecting a shortcut **103**
- Removing a shortcut **103**

22 Common operations

- Setting the time and date **104**
- Storing song information to an iPod (iTunes Tagging) **104**
- Setting the "Sound Retriever" function **105**
- Changing the wide screen mode **105**

23 Other functions

- Selecting the video for the rear display **107**
- Setting the anti-theft function **107**
 - Setting the password **107**
 - Entering the password **108**
 - Deleting the password **108**
 - Forgotten password **109**
- Restoring this product to the default settings **109**
 - Restoring the default settings **109**

Appendix

- Troubleshooting **110**
- Error messages **111**

- Positioning technology **115**
 - Positioning by GPS **115**
- Handling large errors **115**
 - When positioning by GPS is impossible **115**
 - Conditions likely to cause noticeable positioning errors **115**
- Detailed information for playable media **117**
 - Compatibility **117**
 - Media compatibility chart **120**
- Display information **125**
 - Phone menu **125**
 - System menu **125**
 - Theme menu **126**
 - Audio menu **127**
 - Video Setup menu **127**
 - Bluetooth menu **128**

Introduction

Manual overview

Before using this product, be sure to read **Important Information for the User** (a separate manual) which contains warnings, cautions, and other important information that you should note.

How to use this manual

Finding the operation procedure for what you want to do

When you have decided what you want to do, you can find the page you need from the *Contents*.

Finding the operation procedure from a menu name

If you want to check the meaning of an item displayed on screen, you will find the necessary page from the *Display information* at the end of this manual.

Conventions used in this manual

Before moving on, take a few minutes to read the following information about the conventions used in this manual. Familiarity with these conventions will help you greatly as you learn how to use your new equipment.

- Buttons on this product are described in **ALL CAPITALS, BOLD** lettering: e.g.) **HOME** button, **MODE** button.
- Menu items, screen titles, and functional components are described in **bold** with double quotation marks “ ”: e.g.) “**System**” screen or “**Audio**” screen
- Touch panel keys that are available on the screen are described in **bold** in brackets []: e.g.) [**Radio**], [**AV Source Settings**].
- Extra information, alternatives and other notes are presented in the following format: e.g.)
 - If the home location has not been stored yet, set the location first.

- Functions of other keys on the same screen are indicated with **▪** at the beginning of the description: e.g.)
 - If you touch [**OK**], the entry is deleted.
- References are indicated like this: e.g.)
 - ➔** For details of the operations, refer to *How to use the screens* on page 10.

Terms used in this manual

“Front display” and “Rear display”

In this manual, the screen that is attached to the body of this product will be referred to as the “Front display”. Any additional screen that is commercially available and can be connected to this product will be referred to as the “Rear display”.

“Video image”

“Video image” in this manual indicates moving images of DivX®, iPod, and any equipment that is connected to this system with an RCA cable, such as general-purpose AV equipment.

“iPod”

In this manual, iPod and iPhone will be referred to as “iPod”.

Notes on internal memory

Before removing the vehicle battery

If the battery is disconnected or discharged, the memory will be erased and must be reprogrammed.

- Some of the settings and recorded contents will not be reset.

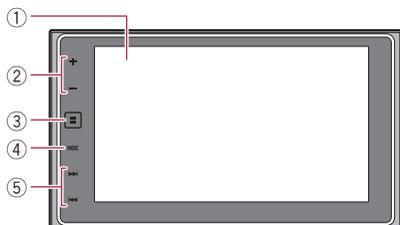
Data subject to erasure

The information is erased by disconnecting the yellow lead from the battery (or removing the battery itself).

- Some of the settings and recorded contents will not be reset.

Checking part names and functions

This chapter gives information about the names of the parts and the main features using the buttons.



① LCD screen

② VOL (+/-) button

Touch to adjust the AV (Audio and Video) source volume.

③ HOME button

- Touch to display the Top menu screen.
 - ➔ For details of the operations, refer to *How to use the screens* on page 10.
- Touch and hold to activate the voice recognition function.
 - ➔ For details, refer to *Using the voice recognition function (for iPhone)* on page 28 and *Using the touch panel keys* on page 64.

④ MODE button

- Touch to switch between the Application screen and the AV operation screen.
 - If the display cannot switch from the AV operation screen to the Application screen when the **MODE** button is touched, the display will turn off.
 - ➔ For details of the operations, refer to *How to use the screens* on page 10.
- Touch and hold to turn the display off.
 - ➔ For details, refer to *Turning off the display* on page 9.

⑤ TRK button

- Touch to perform manual seek tuning, fast forward, reverse and track search controls.

Connecting media

Connecting and disconnecting an iPod

Connecting your iPod

- ➔ For details of the connections, refer to the Installation Manual.

Disconnecting your iPod

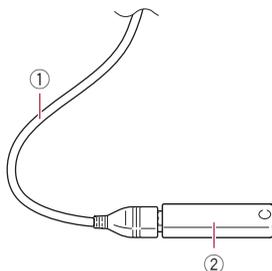
- Pull out the cables after confirming that no data is being accessed.

Plugging and unplugging a USB storage device

- This product may not achieve optimum performance with some USB storage devices.
- Connection via a USB hub is not possible.
- A USB cable is required for connection.

Plugging in a USB storage device

- Plug a USB storage device into the USB cable.



- ① USB cable
- ② USB storage device

Basic operation

Unplugging a USB storage device

- Pull out the USB storage device after checking that no data is being accessed.

Startup and termination

1 Start the engine to boot up the system.

After a short pause, the splash screen comes on for a few seconds.

2 Turn off the vehicle engine to terminate the system.

This product is also turned off.

On first-time startup

When you use this product for the first time, select the language that you want to use.

1 Start the engine to boot up the system.

After a short pause, the splash screen comes on for a few seconds.

The “**Select Program Language**” screen appears.

2 Touch the language that you want to use on screen.

3 Touch the following key.



Displays the “**Smartphone Setup**” screen.

4 Touch the item you want to set.

- ➔ For details, refer to *Information on the connections and functions for each device* on page 32.

5 Touch the following key.



Displays the Top menu screen.

- If you touch , the display returns to the previous screen.

Regular startup

● Start the engine to boot up the system.

After a short pause, the splash screen comes on for a few seconds.

- The screen shown will differ depending on the previous conditions.
- If the anti-theft function is activated, you must enter your password.

Turning off the display

You can turn off the display at night or when the screen is too bright.

When the application screen is available

● Touch and hold the MODE button.

The display turns off.

When the application screen is not available

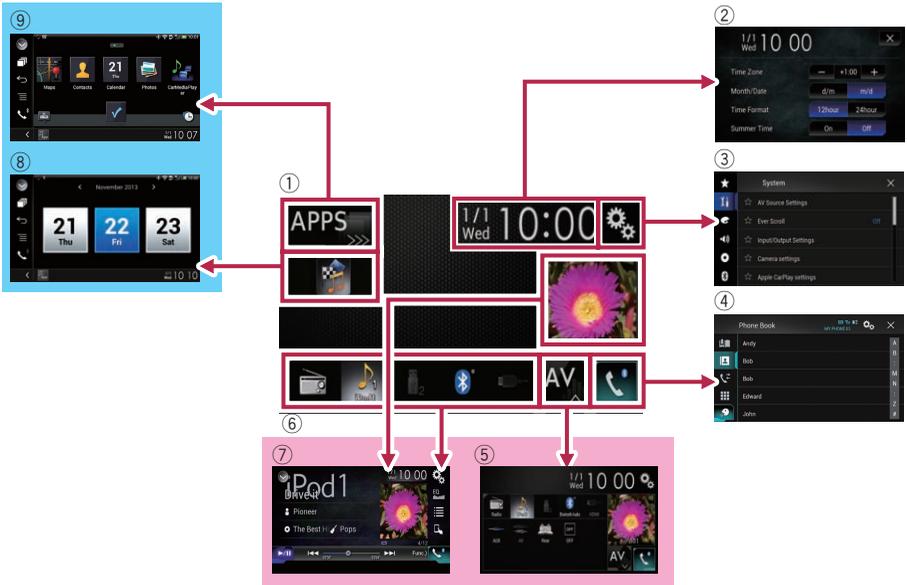
● Touch the MODE button.

The display turns off.

- If you touch the screen when the display is off, it reverts to the original screen.

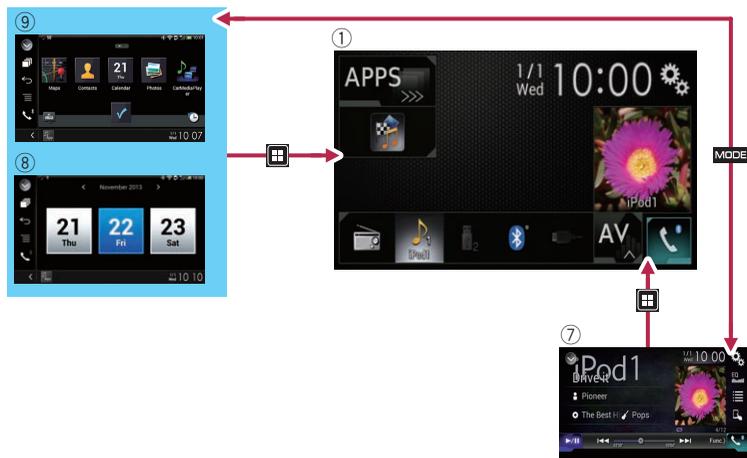
How to use the screens

Switching screens using the touch panel keys



Basic operation

Switching screens using the buttons



① Top menu screen

This is the starting menu to access the desired screens and operate the various functions.

- If you touch the **HOME** button, the Top menu screen is displayed.
- [APPS] is displayed when **AppRadio Mode** or **MirrorLink** is on.
- [Apple CarPlay] is displayed when **Apple CarPlay** is on.

② Time and date setting screen

You can set the time and date settings.

③ Setting menu screen

You can customise the system and audio settings, etc.

④ Phone menu screen

You can access the screen that is related to hands-free phoning.

⑤ AV source selection screen

You can select the AV source.

⑥ Favourite source icons

You can display the icons of frequently used sources by dragging the icons to the display area.

- ➔ For details of the operation, refer to *Changing the display order of source icons* on page 13.

⑦ AV operation screen

You can customise the settings for each source.

⑧ Application operation screen

You can control the iPhone or smartphone applications directly on this product.

- If applications are not available, the Application operation screen will not be displayed.

⑨ Application menu screen

This product can switch to the application menu, on which you can display and operate the application for an iPhone or a smartphone on the screen.

- If application menus are not available, the Application menu screen will not be displayed.

Supported AV source

You can play or use the following sources with this product.

- Radio (FM, MW/LW)

The following sources can be played back or used by connecting an auxiliary device.

- USB
- iPod
- Bluetooth audio
- AV input (AV)
- AUX
- HDMI 

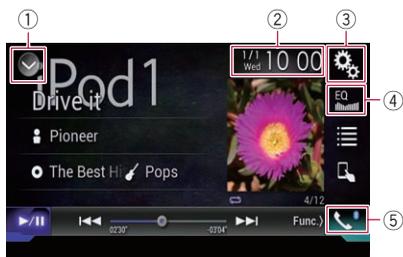
Displaying the AV operation screen

- 1 Touch the HOME button to display the Top menu screen.
- 2 Touch the AV operation key.



1 AV operation key

The AV operation screen appears.



1 Displays the source list.

- ➔ For details, refer to *Selecting a front source on the source list* on page 12.

2 Displays the Time and date setting screen.

- ➔ For details, refer to *Setting the time and date* on page 104.

3 Displays the Setting menu screen.

4 Recalls equaliser curves.

- ➔ For details, refer to *Using the equaliser* on page 93.

5 Displays the Phone menu screen.

- ➔ For details, refer to *Displaying the phone menu* on page 22.

Selecting a front source on the AV source selection screen

- 1 Touch the HOME button to display the Top menu screen.
- 2 Touch the following key.



Displays the AV source selection screen.

- 3 Touch the source icon you want to select.

The AV operation screen of the selected source appears.

Selecting a front source on the source list

- This function is not available during a call in **Apple CarPlay**.

- 1 Touch the HOME button to display the Top menu screen.
- 2 Touch the AV operation key.



1 AV operation key

The AV operation screen appears.

Basic operation

3 Touch the following key.



Displays the source list.

4 Touch the source key you want to select.

The AV operation screen of the selected source appears.

Selecting a rear source

You can select a source output to the rear display.

- For details of the operations, refer to *Selecting the video for the rear display* on page 107.

Turning off the AV source

Turn off the AV source to stop playing or receiving the AV source.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following key.



Displays the AV source selection screen.

3 Touch [OFF].

The AV source is turned off.

Changing the display order of source icons

You can change the display order of source icons on the AV source selection screen.

- This function is available only when you stop your vehicle in a safe place and apply the handbrake.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following key.



Displays the AV source selection screen.

3 Touch and hold a source icon, and drag the icon to the desired position.

- If the source icon is moved, the order of the source list is also changed.

Changing the display order of source keys

You can change the display order of source keys on the source list.

- This function is available only when you stop your vehicle in a safe place and apply the handbrake.
- This function is not available during a call in **Apple CarPlay**.

1 Touch the HOME button to display the Top menu screen.

2 Touch the AV operation key.



① AV operation key

The AV operation screen appears.

3 Touch the following key.



Displays the source list.

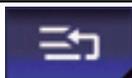
4 Touch the following key.



The source keys can be moved.

5 Drag the source key to the desired position.

6 Touch the following key.



Returns to the previous screen.

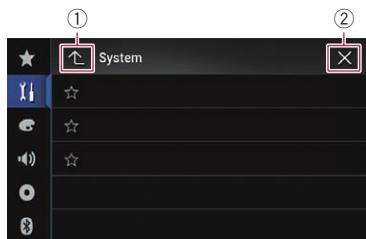
- ❑ If the source key is moved, the source icons displayed on the Top menu screen and the AV source screen are also moved. ❑

Using the touch panel

You can operate this product by touching the marks and items (touch panel keys) displayed on the screen directly with your fingers.

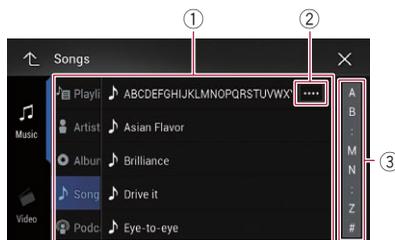
- ❑ To protect the LCD screen from damage, be sure to touch the touch panel keys only with your finger and do so gently.

Using the common touch panel keys



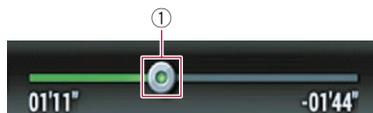
- ① Returns to the previous screen.
- ② Closes the screen.

Operating list screens



- ① Touching an item on the list allows you to narrow down the options and proceed to the next operation.
- ② Appears when all characters are not displayed on the display area. If you touch the key, the rest of the characters are scrolled for display.
- ③ Appears when items cannot be displayed on a single page only. Drag the scrubber bar to view any hidden items. Also, you can drag the list to view any hidden items.

Operating the time bar



- ① You can change the playback point by dragging the key.
 - ❑ Playback time corresponding to the position of the key is displayed while dragging the key.
 - ❑ This function is not available when using iPod function with an iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation).

Basic operation

Operating the on-screen keyboard



- ① Displays the characters that are entered. If there is no text in the box, an informative guide with text appears.
- ② Allows you to move the cursor to the right or left for a number of characters equivalent to the number of touches.
- ③ Touching the keys enters the characters in the text box.
- ④ Deletes the input text one letter at a time, beginning at the end of the text. Continuing to touch the key deletes all of the text.
- ⑤ Confirms the entry and allows you to proceed to the next step.
- ⑥ You can leave spaces.
A space equivalent to the number of touches is inserted.
- ⑦ Switches between alphabet and numbers/symbols.
- ⑧ You can switch between capital and lower case letters.

If your devices feature Bluetooth® technology, this product can be connected to your devices wirelessly. This section describes how to set up a Bluetooth connection.

For details about connectivity with the devices featuring Bluetooth wireless technology, refer to the information on our website.

- ❑ The **"Bluetooth"** menu is available only when you stop your vehicle in a safe place and apply the handbrake.

Preparing communication devices

This product has a built-in function that enables using devices featuring Bluetooth wireless technology.

➔ For details, refer to *Notes for hands-free phoning* on page 28.

You can register and use devices that feature the following profiles with this product.

- HFP (Hands-Free Profile)
- A2DP (Advanced Audio Distribution Profile)
- SPP (Serial Port Profile)
- ❑ When this product is turned off, the Bluetooth connection is also disconnected. When the system restarts, the system automatically attempts to reconnect the previously-connected device. Even when the connection is severed for some reason, the system automatically reconnects the specified device (except when the connection is severed due to device operation).
- ❑ The Bluetooth connection will be terminated if **Apple CarPlay** is turned on. ❑

Registering your Bluetooth devices

You need to register your devices featuring Bluetooth wireless technology when you con-

nect it to this product for the first time. A total of three devices can be registered. Two registration methods are available:

- Searching for nearby Bluetooth devices
- Pairing from your Bluetooth devices
- ❑ If three devices are already paired, **"Memory Full"** is displayed and pairing cannot be performed. In such cases, delete a paired device first.
 - ➔ For details, refer to *Deleting a registered device* on page 18.

Searching for nearby Bluetooth devices

The system searches for available Bluetooth devices near this product, displays them in a list, and registers them for connection.

- ❑ When the device is already connected, this function is inactive.

1 Activate the Bluetooth wireless technology on your devices.

- ❑ For some Bluetooth devices, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

2 Touch the HOME button to display the Top menu screen.

3 Touch the following keys in the following order.



The **"Bluetooth"** screen appears.

4 Touch [Connection].

5 Touch the following key.



Starts searching.

Registering and connecting a Bluetooth device

The system searches for Bluetooth devices waiting for a connection and displays them in the list if a device is found.

- ❑ Up to 30 devices will be listed in the order that the devices are found.

6 Wait until your Bluetooth device appears in the list.

- ❑ If you cannot find the Bluetooth device that you want to connect, check that the device is waiting for a Bluetooth wireless technology connection.

7 Touch the Bluetooth device name you want to register.

While connecting, **"Pairing... Please wait."** is displayed. If the connection is established, **"Paired."** is displayed.

- ❑ If your device supports SSP (Secure Simple Pairing), a six-digit number appears on the display of this product. Touch **[Yes]** to pairing the device.
- ❑ If the connection fails, **"Error"** is displayed. In such cases, try again from the beginning.
- ❑ The PIN code is set to "0000" as the default, but can be changed.
 - ➔ For details, refer to *Entering the PIN code for Bluetooth wireless connection* on page 19.
- ❑ Once the connection is established, the device name is displayed. Touch the device name to disconnect.

After the device is successfully registered, a Bluetooth connection is established from the system.

The profile icons in the registered device list screen are displayed and illuminated as follows.



Illuminates when your mobile device is successfully connected with the HFP (Hands-Free Profile).



Illuminates when your audio device is successfully connected with the A2DP (Advanced Audio Distribution Profile)/AVRCP (Audio/Video Remote Control Profile).



Illuminates when the Bluetooth connection is established with the SPP (Serial Port Profile).

- ❑ After pairing, the phone book registered in the device may be automatically transmitted to this product.
 - If you touch the following key, you can switch the display between the device names and Bluetooth device addresses.



Switches between the device names and Bluetooth device addresses.

Pairing from your Bluetooth devices

You can register a Bluetooth device by setting this product to standby mode and requesting a connection from the Bluetooth device.

- ❑ Before registration, make sure that **"Visibility"** in the **"Bluetooth"** menu is set to **"On"**.
 - ➔ For details, refer to *Switching visibility* on page 19.

1 Activate the Bluetooth wireless technology on your devices.

- ❑ For some Bluetooth devices, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

2 Use the Bluetooth setting in the device to pair this product with the device.

- ❑ If a PIN code input is required, enter a PIN code. (The default PIN code is "0000".)

Registering and connecting a Bluetooth device

When the device is successfully registered, the connection settings are made from the device.

- ❑ If registration fails, repeat the procedure from the beginning.

Connecting to a Bluetooth device automatically

If this function is set to on, a connection between your Bluetooth device and this product will take place automatically as soon as the two devices are less than a few metres apart.

- ❑ If this function is set to on, a connection with the last connected Bluetooth device will be established automatically when the ignition switch is turned on.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [Auto Connect] repeatedly until the desired setting appears.

- **On** (default):
Turns the automatic connection on.
- **Off**:
Turns the automatic connection off.

If your Bluetooth device is ready for a Bluetooth wireless connection, a connection to this product will automatically be established.

If connection fails, “**Auto connection failed. Retry?**” appears.

Touch [**Yes**] to reconnect.

▪ To turn automatic connection off, touch [**Auto Connect**] again.

- ❑ Once the connection is established for the first time, the connection with the device will be established automatically when the

ignition switch is turned on from the next time.

Deleting a registered device

When you have already registered three Bluetooth devices and you want to add another one, you must first delete one of the registered devices.

- ❑ If a registered phone is deleted, all the phone book entries and call history lists that correspond to the phone will be also cleared.

CAUTION

Never turn this product off while the paired Bluetooth device is being deleted.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [Connection].

4 Touch the following key.



Deletes a paired device.

A message prompting you to delete a registered device appears.

5 Touch [Yes].

The device is deleted. ❑

Registering and connecting a Bluetooth device

Connecting a registered Bluetooth device manually

Connect the Bluetooth device manually in the following cases:

- Two or more Bluetooth devices are registered, and you want to manually select the device to be used.
- You want to reconnect a disconnected Bluetooth device.
- Connection cannot be established automatically for some reason.

If you wish to start the connection manually, carry out the following procedure.

1 Activate the Bluetooth wireless technology on your devices.

- For some Bluetooth devices, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your devices.

2 Touch the HOME button to display the Top menu screen.

3 Touch the following keys in the following order.



The “Bluetooth” screen appears.

4 Touch [Connection].

5 Touch the name of the device that you want to connect.

Switching visibility

This function sets whether or not to make this product visible to the other device.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [Visibility] repeatedly until the desired setting appears.

- **On** (default):
Turns the visibility on.
- **Off**:
Turns the visibility off.

Entering the PIN code for Bluetooth wireless connection

To connect your Bluetooth device to this product via Bluetooth wireless technology, you need to enter a PIN code on your Bluetooth device to verify the connection. The default code is “0000”, but you can change it with this function.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [PIN Code Input].

The “PIN Code” screen appears.

4 Touch [0] to [9] to input pin code (up to 8 digits).

5 Touch the following key.



Stores the PIN code in this product.

Displaying the Bluetooth device address

This product can display its Bluetooth device address.

- 1 Touch the **HOME** button to display the **Top menu screen**.
- 2 Touch the following keys in the following order.



The **“Bluetooth”** screen appears.

- 3 Touch **[Device Information]**.
The Bluetooth device address is displayed.

Clearing the Bluetooth memory

CAUTION

Never turn this product off while the Bluetooth memory is being cleared.

- 1 Touch the **HOME** button to display the **Top menu screen**.
- 2 Touch the following keys in the following order.



The **“Bluetooth”** screen appears.

- 3 Touch **[Bluetooth Memory Clear]**.
- 4 Touch **[Clear]**.
The confirmation screen appears.
- 5 Touch **[OK]**.
The Bluetooth memory is cleared.
 - If you do not want to clear the memory, touch **[Cancel]**.

Updating Bluetooth software

This function is used to update this product with the latest Bluetooth software. For details on Bluetooth software and updating, refer to our website.

- The source is turned off and the Bluetooth connection is disconnected before the process starts.

CAUTION

Never turn this product off and never disconnect the phone while the software is being updated.

- 1 Touch the **HOME** button to display the **Top menu screen**.
- 2 Touch the following keys in the following order.



The **“Bluetooth”** screen appears.

- 3 Touch **[BT Software Update]**.
- 4 Touch **[Start]**.
The data transfer screen is displayed.
 - Follow the on-screen instructions to finish updating the Bluetooth software.

Displaying the Bluetooth software version

If this product fails to operate properly, you may need to consult your dealer for repair. In such cases, you may be asked to specify the software version. Perform the following procedure to check the version on this unit.

- 1 Touch the **HOME** button to display the **Top menu screen**.

2 Touch the following keys in the following order.



The “**Bluetooth**” screen appears.

3 Touch [**Bluetooth Version Information**].

The version of this product’s Bluetooth module appears.

⚠ CAUTION

For your safety, avoid talking on the phone as much as possible while driving.

If your mobile phone features Bluetooth technology, this product can be connected to your mobile phone wirelessly. Using this hands-free function, you can operate this product to make or receive phone calls. This section describes how to set up a Bluetooth connection and how to operate a mobile phone featuring Bluetooth technology on this product.

- ❑ Hands-free phoning via Bluetooth wireless technology is not available when **Apple CarPlay** is on.

For details about connectivity with the devices featuring Bluetooth wireless technology, refer to the information on our website.

Displaying the phone menu

Use the Phone icon if you wish to connect a mobile phone to this product for utilisation.

- ➡ For details, refer to Chapter 3.
- ❑ The Phone icon is displayed on the following screens.
 - Top menu screen
 - AV operation screen
 - On the App control side bar on the **AppRadio Mode** and **MirrorLink** screens

● Touch the following key.



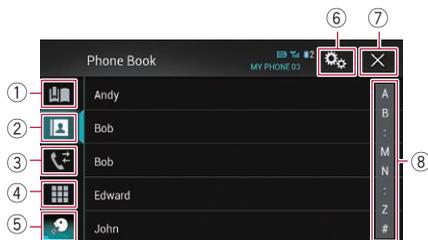
Displays the Phone menu screen.

- ❑ The “**Phone Book**” screen appears when using this function for the first time. The screen of the last-used function appears from the next time.
- ❑ The Bluetooth icon on the key is not displayed when **Apple CarPlay** is on. If touch-

ing the key when **Apple CarPlay** is on, the phone screen for **Apple CarPlay** will be displayed.

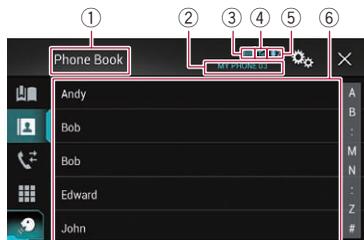
For details of **Apple CarPlay**, refer to *Using Apple CarPlay* on page 64.

Touch panel keys



- ① Displays the preset dial screen.
- ② Switches to the phone book list.
- ③ Switches to the missed, received and dialled call lists.
- ④ Switches the mode to enter the phone number directly.
- ⑤ Switches to the voice recognition function (for iPhone).
- ⑥ Displays the Setting menu screen.
- ⑦ Closes the screen.
- ⑧ Displays the alphabet search screen.

Reading the screen



- ① Menu title
- ② Name of the connected mobile phone
- ③ Battery status of the mobile phone
- ④ Reception status of the mobile phone

Using hands-free phoning

- ⑤ Indicates that a Bluetooth telephone is connected.
The device number of the connected device is displayed.
- ⑥ List display area 

Making a phone call

You can make a phone call in many different ways.

Direct dialling

- This function is available only when you stop your vehicle in a safe place and apply the handbrake.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Dial” screen appears.



- ① Dial pad
- ② Deletes one digit. Touch and hold to delete all digits.

3 Touch the number keys to enter the phone number.

4 Touch the following key.



Makes a call.

5 Touch the following key.



Ends the call.

The call ends.

- You may hear a noise when you hang up the phone.

Calling a number in the phone book

After finding the number you want to call in the phone book, you can select the entry and make the call.

- The contacts on your phone will normally be transferred to this product automatically when the phone is connected.
If it is not, use your phone menu to transfer the contacts.

The visibility of this product should be on when you use the “Bluetooth” menu.

- ➔ For details, refer to *Switching visibility* on page 19.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Phone Book” screen appears.

3 Touch the desired name on the list.

The details screen of the phone book appears.

Using hands-free phoning

4 Touch the phone number you want to dial.

The dial screen appears.

5 Dialling starts.

- To cancel the call, touch 

6 Touch the following key.



Ends the call.

The call ends.

Selecting a number by alphabet search mode

If a lot of numbers are registered in the phone book, you can search for the phone number by alphabet search mode.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Phone Book" screen appears.

3 Touch the Initial Search Bar to display the alphabet search screen.

4 Touch the first letter of the entry you are looking for.

The "Phone Book" entries starting with that letter (e.g. "Ben", "Brian" and "Burt" when "B" is selected) will be displayed.

- When the system language is set to Russian, the following key appears.
If you want to change the character, touch the following key until the desired character repeatedly.



Changes the character.

5 Touch the list to display the phone number list of the selected entry.

The details screen of the phone book appears.

- If several phone numbers are included in an entry, select one by touching the list.

6 Touch the phone number you want to dial.

The dial screen appears.

7 Dialling starts.

- To cancel the call, touch 

8 Touch the following key.



Ends the call.

The call ends.

Dialling from the history

The most recent calls made (dialled, received and missed) are stored in the call history list. You can browse the call history list and call numbers from it.

1 Touch the HOME button to display the Top menu screen.

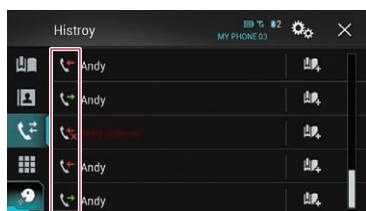
2 Touch the following keys in the following order.



The "History" screen appears.

- Depending on the type of mobile phone, some calls may not be displayed in the call history.

Using hands-free phoning



①

- ① Type of call history



Received calls.



Dialled calls.



Missed calls.

- 3 Touch the desired entry on the list to make a call.

The dial screen appears.

- 4 Dialling starts.

- To cancel the call, touch 

- 5 Touch the following key.



Ends the call.

The call ends.

Using the preset dial lists

You can dial a number from the preset dial list.

Registering a phone number

You can easily store up to six phone numbers per device as presets.

- 1 Touch the HOME button to display the Top menu screen.

- 2 Touch the following keys in the following order.



The "Phone Book" or "History" screen appears.

- 3 Touch the following key.



Registers the phone number to the "Preset Dial" list.

Dialling from the preset dial list

- 1 Touch the HOME button to display the Top menu screen.

- 2 Touch the following keys in the following order.



The "Preset Dial" screen appears.

- 3 Touch the desired entry on the list to make a call.

The dial screen appears.

- 4 Dialling starts.

- To cancel the call, touch 

- 5 Touch the following key.



Ends the call.

The call ends.

Deleting a phone number

- 1 Touch the HOME button to display the Top menu screen.

Using hands-free phoning

2 Touch the following keys in the following order.



The “Preset Dial” screen appears.

3 Touch the following key.



Deletes the phone number.



Receiving a phone call

You can perform hands-free answering by using this product.

Answering an incoming call

This product informs you that it is receiving a call by displaying a message and producing a ring sound.

- You can set the system to automatically answer incoming calls. If this product is not set to automatically answer incoming calls, you will have to answer the calls manually.

➔ For details, refer to *Answering a call automatically* on page 26.

- The registered name appears if the phone number of the received call is already registered in “Phone Book”.

1 Touch the following key.



Answers an incoming call.



Rejects an incoming call.

The rejected call is recorded in the missed call history list.

➔ For details, refer to *Dialling from the history* on page 24.

2 Touch the following key.



Ends the call.

The call ends. 

Minimising the dial confirmation screen

- The dial confirmation screen cannot be minimised on the AV operation screen.
- AV sources cannot be selected even if the dial confirm screen is minimised while talking on the phone.

1 Touch the following key.



The dial confirmation screen is minimised.

2 Touch the following key.



Displays the dial confirmation screen again.



Changing the phone settings

Answering a call automatically

This product automatically answers incoming calls to the connected mobile phone, so you can answer calls while driving without taking your hands off the steering wheel.

When “Auto Answer” is set to “On”, an incoming call will be automatically answered in 5 seconds.

1 Touch the HOME button to display the Top menu screen.

Using hands-free phoning

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [Auto Answer] repeatedly until the desired setting appears.

- **Off** (default):
Turns the automatic answering off.
- **On**:
Turns the automatic answering on.

Switching the ring tone

You can select whether or not to use this product’s ring tone. If this function is set to on, the ring tone for this product will sound.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [Ring Tone] repeatedly until the desired setting appears.

- **On** (default):
Turns the ring tone on.
- **Off**:
Turns the ring tone off.

Inverting names in the phone book

When your device is connected to this product, the first and last names of your contacts may be registered to the phone book in reverse order.

You can use this function to change the order back. (Inverting the names in the phone book)

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Bluetooth” screen appears.

3 Touch [Invert Name].

The confirmation screen appears.

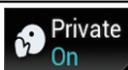
4 Touch [Yes].

- If the inversion fails, “Invert Name Error” appears. In such cases, try again from the beginning.
- Inverting the names of your contacts from this product does not affect the data on your Bluetooth device.

Setting the private mode

During a conversation, you can switch to private mode (talk directly on your mobile phone).

- Touch the following keys to turn private mode on or off.



Talk directly on your mobile device



Hands-free phoning

Adjusting the other party’s listening volume

To maintain good sound quality, this product can adjust the other party’s listening volume. If the volume is not loud enough for the other party, use this function.

- **Touch the following key.**



Switches between the three volume levels.

- ❑ This function can be performed even while talking on the phone.
- ❑ Settings can be stored for each device. ❑

Using the voice recognition function (for iPhone)

You can use the voice recognition function of iPhone.

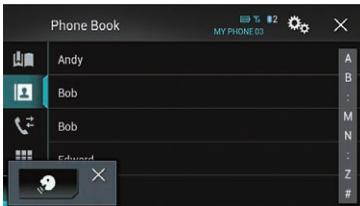
- ❑ When an iPhone running iOS 6.1 or higher is used, Siri Eyes Free Mode is available with this product.
- ❑ For using the voice recognition function in **Apple CarPlay**, refer to *Using Apple CarPlay* on page 64.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys to start voice control.



The voice recognition function launches and the voice control screen appears.



You can use the voice recognition function in the same way as using it on the iPhone.

- ❑ You can also launch the voice recognition function by touching and holding the **HOME** button.



Indicates that this product is on standby for your voice commands.



Cancels the voice recognition function.



Notes for hands-free phoning

General notes

- Connection to all mobile phones featuring Bluetooth wireless technology is not guaranteed.
- The line-of-sight distance between this product and your mobile phone must be 10 metres or less when sending and receiving voice and data via Bluetooth technology. However, the actual transmission distance may be shorter than the estimated distance, depending on the usage environment.
- With some mobile phones, the ring sound may not be output from the speakers.
- If private mode is selected on the mobile phone, hands-free phoning may be disabled.

Registration and connection

- Mobile phone operations vary depending on the type of mobile phone. Refer to the instruction manual that came with your mobile phone for detailed instructions.
- With mobile phones, phone book transfer may not work even though your phone is paired with this product. In that case, disconnect your phone, and then perform pairing again from your phone to this product.
- The Bluetooth connection will be terminated if **Apple CarPlay** is turned on.
- If **Apple CarPlay** is turned on during a call on a mobile phone other than the iPhone connected to use **Apple CarPlay**, the Bluetooth connection will be terminated after the call ends.

Using hands-free phoning

Making and receiving calls

- You may hear a noise in the following situations:
 - When you answer the phone using the button on the phone.
 - When the person on the other end of the line hangs up the phone.
 - If the person on the other end of the line cannot hear the conversation due to an echo, decrease the volume level for hands-free phoning. This may reduce the echo.
 - With some mobile phones, even if you press the accept button on the mobile phone when a call comes in, hands-free phoning may not be performed.
 - The registered name appears if the phone number of the received call is already registered in the phone book. When one phone number is registered under different names, only the phone number is displayed.
 - If the phone number of the received call is not registered in the phone book, the phone number of the received call appears.
- If the phone book in the mobile phone contains image data, the phone book may not be transferred correctly. (Image data cannot be transferred from the mobile phone.)
 - Depending on the mobile phone, phone book transfer may not be available.

The received call and the dialled number histories

- You cannot make a call to the entry of an unknown user (no phone number) in the received call history.
- If calls are made by operating your mobile phone, no history data will be recorded in this product.

Phone book transfers

- If there are more than 800 phone book entries on your mobile phone, not all entries may download completely.
- With some mobile phones, it may not be possible to transfer all items in the phone book at one time. In this case, transfer items one by one from your mobile phone.
- Depending on the mobile phone, this product may not display the phone book correctly. (Some characters may be garbled, or the order of first and last names may be reversed.)

When using an iPod / iPhone or a smartphone with this product, configure the settings of this product according to the device to be connected.

This section described the settings required for each device.

The basic flow of iPod / iPhone or smartphone setup

- ① Select the method for connecting your device.
 - For details, refer to *Setting the device connection method* on page 30.
- ② Connect your device to this product.
 - For details of the connections, refer to the Installation Manual.
- ③ If necessary, connect your device to this product via Bluetooth connection.
 - For details of the Bluetooth connection, refer to Chapter 3.



Setting the device connection method

If you want to use the application for iPhone or smartphone on this product, you must select the method for connecting your device. Settings are required according to the connected device.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Input/Output Settings].

4 Touch [Smartphone Setup].

The “**Smartphone Setup**” screen appears.

5 Touch the following settings.

- **Device:** Select the device to be connected.
- **Connection:** Select the connection method.
- **Apple CarPlay:** Set to “**On**” to use **Apple CarPlay**.
- Configure the settings correctly according to the device to be connected and the connection method to be used.
 - For details, refer to *Information on the connections and functions for each device* on page 32.
- If you change the setting, the confirmation screen appears.

Touch **[OK]**.

The setting will change after the following processes are automatically executed.

 - The source is turned off.
 - **AppRadio Mode** and **MirrorLink** mode are exited.
 - The smartphone connection (USB and Bluetooth) is disconnected.

To cancel, touch **[Cancel]**.

iPod compatibility

This product supports only the following iPod models and iPod software versions. Others may not work correctly.

Made for

- iPhone 5s: iOS 7.0.3
- iPhone 5c: iOS 7.0.3
- iPhone 5: iOS 7.0.3
- iPhone 4s: iOS 7.0.3
- iPhone 4: iOS 7.0.3
- iPhone 3GS: iOS 6.0.1
- iPod touch (5th generation): iOS 6.0.1
- iPod touch (4th generation): iOS 6.0.1
- iPod touch (3rd generation): iOS 5.1.1
- iPod touch (2nd generation): iOS 4.2.1
- iPod classic 160GB (2009): Ver. 2.0.4
- iPod classic 160GB (2008): Ver. 2.0.1
- iPod classic 80GB: Ver. 1.1.2

iPod / iPhone or smartphone setup operation

- iPod nano (7th generation)
- iPod nano (6th generation): Ver. 1.2
- iPod nano (5th generation): Ver. 1.0.2
- iPod nano (4th generation): Ver. 1.0.4
- iPod nano (3rd generation): Ver. 1.1.3
- You can connect and control an iPod compatible with this product by using separately sold connector cables.
- Operation methods may vary depending on the iPod model and the software version of the iPod.
- Depending on the software version of the iPod, it may not be compatible with this product.
For details about iPod compatibility with this product, refer to the information on our website.

This manual applies to the following iPod models.

iPod with 30-pin connector

- iPhone 4s
- iPhone 4
- iPhone 3GS
- iPod touch 4th generation
- iPod touch 3rd generation
- iPod touch 2nd generation
- iPod classic 160GB
- iPod classic 80GB
- iPod nano 6th generation
- iPod nano 5th generation
- iPod nano 4th generation
- iPod nano 3rd generation

iPod with Lightning connector

- iPhone 5s
- iPhone 5c
- iPhone 5
- iPod touch 5th generation
- iPod nano 7th generation

Android™ device compatibility

- Operation methods may vary depending on the Android device and the software version of the Android OS.

- Depending on the version of the Android OS, it may not be compatible with this product.

- Compatibility with all Android devices is not guaranteed.

For details about Android device compatibility with this product, refer to the information on our website.

Apple CarPlay compatibility

Apple CarPlay is available for the following iPhone models.

- iPhone 5s: iOS 7.1 or later
- iPhone 5c: iOS 7.1 or later
- iPhone 5: iOS 7.1 or later

MirrorLink device compatibility

- This product is compatible with **MirrorLink** version 1.1.
- Compatibility with all **MirrorLink** devices is not guaranteed.

For details about **MirrorLink** device compatibility with this product, refer to the information on our website.

Information on the connections and functions for each device

The settings and cables required for connecting each device, and the available sources are as follows.

iPod / iPhone with a 30-pin connector				
Required cable (sold separately)		Cable connection is not required.	CD-IU201V	CD-IU201S
Smartphone Setup	Device	iPhone/iPod	iPhone/iPod	iPhone/iPod
	Connection	Wireless via BT	USB	USB
	Apple CarPlay	—	On/Off	On/Off
Connection requirement		—	—	Connect to USB port 1 for using AppRadio Mode .
Available source	iPod (audio)	—	✓	✓
	iPod (video)	—	✓	✓
	AppRadio Mode	—	—	✓

iPod / iPhone with a Lightning connector				
Required cable (sold separately)		Cable connection is not required.	CD-IU52	<ul style="list-style-type: none"> • CD-IH202 • CD-IU52 • Lightning Digital AV Adapter
Smartphone Setup	Device	iPhone/iPod	iPhone/iPod	iPhone/iPod
	Connection	Wireless via BT	USB	Digital AV adapter
	Apple CarPlay	—	On/Off	—
Bluetooth connection		—	Connect to USB port 1 for using Apple CarPlay .	Bluetooth connection is required.
Connection requirement		—	—	Connect to USB port 1 for using AppRadio Mode .
Available source	iPod (audio)	—	✓	—
	iPod (video)	—	—	—
	AppRadio Mode	—	—	✓
	Apple CarPlay	—	✓ (*1)	—

iPod / iPhone or smartphone setup operation

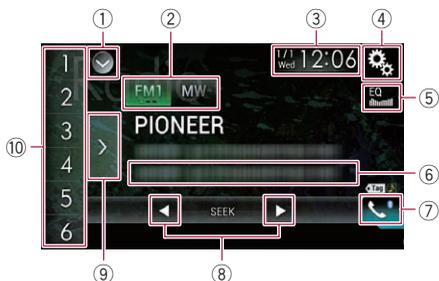
iPod / iPhone with a Lightning connector			
Remarks	—	Set " Apple CarPlay " to " On " for using Apple CarPlay .	iPod is not available. Please use the CarMediaPlayer to play music or videos in AppRadio Mode . (*2)
(*1) Available only when an Apple CarPlay -compatible device is connected. (*2) Install the CarMediaPlayer app on your iPod or iPhone. ☞ For details about the CarMediaPlayer , refer to the information on our website. ☞ Refer to the CarMediaPlayer manual for more information.			

Android, MirrorLink device				
Required cable (sold separately)		Cable connection is not required.	CD-MU200	CD-AH200
Smartphone Setup	Device	Others	Others	Others
	Connection	Wireless via BT	USB	HDMI
Bluetooth connection		—	—	Bluetooth connection is required.
Connection requirement		—	Connect to USB port 2.	Connect to USB port 2.
Available source	AppRadio Mode	—	—	✓
	MirrorLink	—	✓	—



You can listen to the radio using this product. This section describes operations for the radio.

Using the touch panel keys



- ① **Displays the source list.**
 - For details, refer to *Selecting a front source on the source list* on page 12.
- ② **Selects a band.**
 - For details, refer to *Selecting a band* on page 35.
- ③ **Displays the Time and date setting screen.**
 - For details, refer to *Setting the time and date* on page 104.
- ④ **Displays the Setting menu screen.**
- ⑤ **Recalls equaliser curves.**
 - For details, refer to *Using the equaliser* on page 93.
- ⑥ **Stores song information to an iPod.**
 - For details, refer to *Storing song information to an iPod (iTunes Tagging)* on page 104.
- ⑦ **Displays the Phone menu screen.**
 - For details, refer to *Displaying the phone menu* on page 22.
- ⑧ **Performs manual tuning or seek tuning.**
 - For details, refer to *Manual tuning* on page 35.
 - For details, refer to *Seek tuning* on page 35.
- ⑨ **Displays the preset channels.**

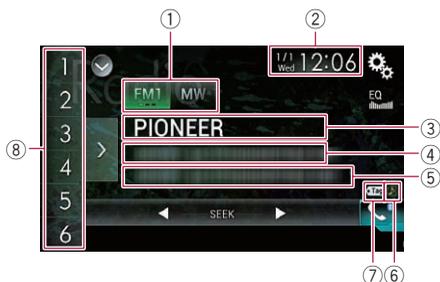
➤ For details, refer to *Selecting a preset channel from the preset channel list* on page 36.

- ⑩ **Recalls the preset channel stored to a key from memory with a single touch of the key.**

Stores the current broadcast frequency to a key for later recall by continuing to touch the key.

➤ For details, refer to *Storing broadcast frequencies* on page 36. 

Reading the screen



- ① **Band indicator**
Shows the tuned band: FM1, FM2, FM3 or MW/LW.
- ② **Current time and date**
- ③ **Programme service name indicator**
Shows the programme service name (station name) of the current station.
 When "MW/LW" is selected, the frequency will be displayed instead.
- ④ **Radio text display area**
Displays the radio text currently being received.
 When "MW/LW" is selected, nothing is displayed.
- ⑤ **Song information**
Shows the title of the current song and/or the artist name for the current song (when available).
 When "MW/LW" is selected, nothing is displayed.
- ⑥ **iTunes® tagging song status indicator**

Using the radio

Shows the status of the song information stored in this product.

- The icon is displayed on all operation screens of AV sources.

Indicator	Meaning
	Appears when the song information tag is stored in this product.
	Appears when the song information tag is being transferred to an iPod.

⑦ iTunes® tagging indicator

Indicates songs that are capable of iTunes tagging.

- The icon is displayed on all operation screens of AV sources.

Indicator	Meaning
	Appears when this product receives an iTunes song tag that can be stored and then downloaded to an iPod for later purchase.
	Flashes when this product is storing song tag information.

⑧ Preset number indicator

- Highlights the selected preset item.

Starting procedure

1 Display the AV source selection screen.

- ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 12.

2 Touch [Radio] on the AV source selection screen.

The "Radio" screen appears.

3 Use the touch panel keys on the screen to control the radio.

- ➔ For details, refer to *Using the touch panel keys* on page 34.

Selecting a band

- Touch the following key repeatedly until the desired band appears.

	Switches between the following FM bands: FM1, FM2 and FM3.
	Switches between the following MW/LW bands: MW and LW.

- This function is convenient for preparing different preset lists for each band.

Manual tuning

- Touch the following keys to tune manually.

	Moves down one step at a time.
	Moves up one step at a time.

- This function is convenient for preparing different preset lists for each band.

Seek tuning

- Touch and hold one of the following keys for about one second and then release.

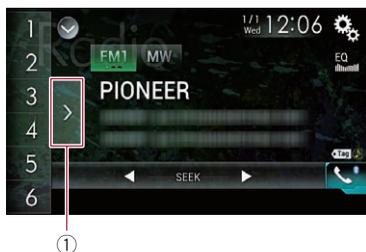
	Scans frequencies until it finds a broadcast strong enough for good reception. You can cancel seek tuning by touching either key briefly.
	If you keep holding either key, you can skip broadcasting frequencies. Seek tuning will start when you release the key.

Selecting a preset channel from the preset channel list

Once you have stored broadcast channels, you can easily recall preset channels from memory with a single touch of a key.

➔ For details, refer to *Storing broadcast frequencies* on page 36.

1 Touch the preset channel list display key.



① Preset channel list display key

2 Touch the item on the list ("1" to "6") to switch to a channel registered as a preset channel.

- ❑ If you touch the preset channel list display key while the preset channel list is displayed, the list disappears and the preset tuning keys are displayed.

Storing broadcast frequencies

With a touch of any of the preset tuning keys ("1" to "6"), you can easily store up to six broadcast channels for later recall (also with the touch of a key).

1 Select a frequency that you want to store in memory.

2 Touch and hold a preset tuning key [1] to [6].

The selected radio station is stored in memory. The next time you touch the same preset tuning key "1" to "6", the service component is recalled from memory.

- ❑ Up to 18 FM stations, six for each of the three FM bands, as well as six MW/LW stations, can be stored in memory.

Storing the strongest broadcast frequencies

BSM (best stations memory) function automatically stores the six strongest broadcast frequencies under the preset tuning keys "1" to "6" and, once stored there, you can tune into them with the touch of a key.

- ❑ Storing broadcast frequencies with BSM may replace broadcast frequencies you have already saved.
- ❑ Previously stored broadcast frequencies may remain stored if the number of strong broadcast frequencies stored has not reached the limit.

1 Touch the preset channel list display key.

The preset channel list appears.

2 Touch [BSM] to begin a search.

A message appears. While the message is displayed, the six strongest broadcast frequencies will be stored under the preset tuning keys "1" to "6" in order of their signal strength. When this is complete, the message disappears.

- If you touch [**Cancel**], the storage process is cancelled.

Tuning into strong frequencies

- ❑ This setting is available only when "Radio" is selected as the source.

Local seek tuning allows you to only tune into those radio stations with sufficiently strong signals for good reception.

1 Touch the HOME button to display the Top menu screen.

Using the radio

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [Local].

The pop-up menu appears.

6 Touch the item you want to set.

FM

- **Off** (default):
Turns the seek tuning setting off.
- **Level1:**
Sets the level of sensitivity for FM to level 1.
- **Level2:**
Sets the level of sensitivity for FM to level 2.
- **Level3:**
Sets the level of sensitivity for FM to level 3.
- **Level4:**
Sets the level of sensitivity for FM to level 4.

MW/LW

- **Off** (default):
Turns the seek tuning setting off.
- **Level1:**
Sets the level of sensitivity for MW/LW to level 1.
- **Level2:**
Sets the level of sensitivity for MW/LW to level 2.
- The FM “**Level4**” (MW/LW “**Level2**”) setting allows reception of only stations with the strongest signals, while lower settings allow reception of those with weaker signals.

Receiving traffic announcements

- This function can only be used on the FM band.

TA (traffic announcement standby) lets you receive traffic announcements automatically, no matter what source you are listening to. TA can be activated for both a TP station (a station that broadcasts traffic information) or another enhanced network’s TP station (a station carrying information that cross-references TP stations).

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [TA Interrupt] repeatedly until the desired setting appears.

- **Off** (default):
Does not receive traffic announcements automatically.
- **On:**
Receives traffic announcements automatically.

6 Tune into a TP station or another enhanced network’s TP station.

7 Use the VOL (+/-) button to adjust the TA volume when a traffic announcement begins.

The newly set volume is stored in memory and recalled for subsequent traffic announcements.

- You can cancel the news programme by changing the source.
- The system switches back to the original source following traffic announcement reception.

- ❑ Only TP stations and other enhanced networks' TP stations are tuned in during seek tuning or BSM when the TA function is on. 

Using news programme interruption

- ❑ This function can only be used on the FM band.

When a news programme is broadcast from a PTY code news station, this product can switch from any station to the news broadcast station. When the news programme ends, reception of the previous programme resumes.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [News Interrupt] repeatedly until the desired setting appears.

- **Off** (default):
Deactivates the news programme interruption function.
- **On**:
Activates the news programme interruption function.
- ❑ You can cancel the news programme by changing the source. 

Tuning into alternative frequencies

- ❑ This function can only be used on the FM band.

If you are listening to a broadcast and the reception becomes weak or there are other problems, this product will automatically search for a different station in the same network that is broadcasting a stronger signal.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [Alternative FREQ] repeatedly until the desired setting appears.

- **On** (default):
Turns the alternative frequencies function on.
- **Off**:
Turns the alternative frequencies function off.
- ❑ Only RDS stations are tuned in during seek tuning or BSM when AF is on.
- ❑ When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station.
- ❑ Sound may be temporarily interrupted by another programme during an AF frequency search.
- ❑ AF can be turned on or off independently for each FM band. 

Using the radio

Limiting stations to regional programming

- This function can only be used on the FM band.

When AF (alternative frequency) is used to automatically retune frequencies, the regional function limits the selection to stations broadcasting regional programmes.

- 1 Touch the **HOME** button to display the **Top menu screen**.
- 2 Touch the following keys in the following order.



The “**System**” screen appears.

- 3 Touch [**AV Source Settings**].
- 4 Touch [**Radio Settings**].
- 5 Touch [**Regional**] repeatedly until the desired setting appears.
 - **On** (default):
Turns the regional function on.
 - **Off**:
Turns the regional function off.
- Regional programming and regional networks are organised differently depending on the country (i.e. they may change according to the time, country or broadcast area).
- The preset number on the display may disappear if the tuner tunes into a regional station that differs from the originally set station.
- The regional function can be turned on or off independently for each FM band.

Switching Auto PI seek

If this product fails to find a suitable alternative frequency, or if you are listening to a

broadcast and the reception becomes weak, this product will automatically search for a different station with the same programming.

Activating the Auto PI seek for preset stations

This product can automatically search for a different station with the same programming, even during preset recall.

- “**Auto PI**” can be set only when the source is selected to “**OFF**”.

- 1 Touch the **HOME** button to display the **Top menu screen**.
- 2 Touch the following keys in the following order.



The “**System**” screen appears.

- 3 Touch [**AV Source Settings**].
- 4 Touch [**Radio Settings**].
- 5 Touch [**Auto PI**] repeatedly until the desired setting appears.
 - **Off** (default):
Deactivates the Auto PI seek function.
 - **On**:
Activates the Auto PI seek function.

Switching the sound quality of the FM tuner

- This function can only be used on the FM band.

You can select the sound quality from the three settings according to the circumstances of use.

- 1 Touch the **HOME** button to display the **Top menu screen**.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [Tuner Sound].

The pop-up menu appears.

6 Touch the item you want to set.

- **Standard** (default):
Switches to the standard settings.
- **Stable**:
Switches to settings that prioritise noise prevention.
- **Hi-Fi**:
Switches to the settings that give priority to the sound quality.

Storing song information to an iPod (iTunes Tagging)

For details, refer to *Storing song information to an iPod (iTunes Tagging)* on page 104.

Operating with the buttons

Touch the TRK button

You can move the preset channels up or down.

Touch and hold the TRK button

You can perform seek tuning.

Playing compressed audio files

You can play compressed audio files stored in a USB storage device.

- For details, refer to *Media compatibility chart* on page 120.

Using the touch panel keys

Playback screen (page 1)



Playback screen (page 2)



- Displays the source list.**
 - For details, refer to *Selecting a front source on the source list* on page 12.
- Displays the MIXTRAX screen.**
 - For details, refer to Chapter 16.
- Displays the Time and date setting screen.**
 - For details, refer to *Setting the time and date* on page 104.
- Displays the Setting menu screen.**
- Recalls equaliser curves.**
 - For details, refer to *Using the equaliser* on page 93.
- Selects a file from the list.**
 - For details, refer to *Selecting files from the file name list* on page 43.
- Displays a list related to the song currently playing (link search).**
 - For details, refer to *Selecting a file from the list related to the song currently playing (link search)* on page 43.
- Switches the text display between tag information and file/folder information.**
 - For details, refer to *Reading the screen* on page 42.
 - For details, refer to *Switching the browse mode* on page 43.
- Displays the Phone menu screen.**
 - For details, refer to *Displaying the phone menu* on page 22.
- Switches to the next or previous page of touch panel keys.**
- Skips files forward or backward.**
- Changes the playback point by dragging the key.**
 - For details, refer to *Operating the time bar* on page 14.
- Switches the media file type.**
 - For details, refer to *Switching the media file type* on page 44.
- Switches between playback and pause.**
- Displays the album list.**
 - For details, refer to *Displaying the album list* on page 44.
- Uses “Sound Retriever” function.**
 - For details, refer to *Setting the “Sound Retriever” function* on page 105.
- Plays files in random order.**
 - For details, refer to *Playing files in random order* on page 44.
- Sets a repeat play range.**
 - For details, refer to *Setting a repeat play range* on page 44.
- Selects the previous folder or the next folder.**
- Displays the category list including the selected item.**

Reading the screen



① Current file information

Music Browse mode

- **Song title/File name**

Shows the title of the song currently playing (when available). If the title of a song is not available, the file name appears.

- **Artist name**

Shows the artist name for the song currently playing (when available). "No Name" is displayed if there is no corresponding information.

- **Album title/Folder name**

Shows the title of the album of the current file (when available). If the title of the album is not available, the folder name appears.

- **Genre**

Shows the genre of the current file (when available). "No Genre" is displayed if there is no corresponding information.

- Nothing is displayed if the song currently playing is in a format which does not support these functions.

Folder Browse mode

- **File name**

Shows the name of the file currently playing.

- **Folder name**

Shows the name of the folder containing the file currently playing.

② Current time and date

③ Album artwork

Album art of the current song is displayed if it is available.

④ Playback condition indicator

Indicates the current playback condition.

Playing files in random order

Indicator	Meaning
	Does not play files in random order.
	Plays all files within the repeat range in random order.

Setting a repeat play range (for Music Browse mode)

Indicator	Meaning
	Repeats just the current file.
	Repeats all compressed audio files.

Setting a repeat play range (for Folder Browse mode)

Indicator	Meaning
	Repeats just the current file.
	Repeats just the current folder.
	Repeats all compressed audio files.

⑤ Play time indicator

Shows the elapsed playing time within the current file. 

Starting procedure

1 Display the AV source selection screen.

- For details of the operations, refer to *Displaying the AV operation screen* on page 12.

Playing compressed audio files

2 Plug the USB storage device into the USB connector.

- ➔ For details, refer to *Plugging in a USB storage device* on page 8.

3 Touch [USB] on the AV source selection screen.

The image is displayed on the screen.

4 Use the touch panel keys on the screen to control the USB storage device.

- ➔ For details, refer to *Using the touch panel keys* on page 41.
- ☐ Playback is performed in order of folder numbers. Folders are skipped if they contain no playable files. If there are no playable files in folder 01 (root folder), playback starts from folder 02. ☐

Switching the browse mode

This product supports two types of browse modes: Folder Browse mode and Music Browse mode.

Music Browse mode

Displays a song title, artist name, album name and genre in the current file information display area on the AV operation screen. Select when you want to play music files narrowed down by a category of song title, artist name, album name or genre.

If connecting a USB storage device, this product accesses the database of music files with tag information and switches to the Music Browse mode automatically.

Folder Browse mode

Displays a folder name and file name in the current file information display area on the AV operation screen. Select when you want to search for music files in the list screen or folders on the list screen.

- ☐ You can switch between the browse modes for file search by touching the tabs on the list screen.

- Touch the following key repeatedly until the desired setting appears.



Switches the display between Music Browse mode and Folder Browse mode.



Selecting files from the file name list

You can find files or folders to play back using the file name or folder name list which is a list of the files or folders stored in the USB storage device.

- 1 Touch the following key.



Displays the list of the files or folders stored in the USB storage device.

- 2 Touch a file on the list to play back.

- ☐ Files are played back in file number order.
- ☐ Touching a folder on the list shows its contents. You can play a file on the list by touching it. ☐

Selecting a file from the list related to the song currently playing (link search)

You can select files to play back using the file list which is a list of the files recorded in the USB storage device.

- 1 Display the Music Browse mode.

- ➔ For details, refer to *Switching the browse mode* on page 43.

- 2 Touch the following key.



Displays the list of the files or folders stored in the USB storage device.

Playing compressed audio files

3 Touch the desired category to display the file list.

The list screen appears.

4 Touch the item that you want to refine.

Refine the item until the desired song title or file name is displayed on the list.

- ❑ Touching **[All]** on the list includes all options in the current list. For example, if you touch **[All]** after touching **[Artists]**, you can proceed to the next screen with all artists in the list selected.
- ❑ After you select “**Artists**”, “**Albums**” or “**Genres**”, go on to touch one of the lists to start playing the first song in the selected list and display the next options.

5 Touch the desired song title or file name to play back.

Displaying the album list

1 Touch the artwork to open a list of the albums stored on the USB storage device.

2 Touch the desired album.

3 Touch the name of the song you want to play to start playing that song.

- ❑ If part of the recorded information is not displayed, a scroll key appears on the right side of list. Touch the scroll key to scroll. 

Playing files in random order

All files in the USB storage device can be played at random by only touching a single key.

● Touch the following key repeatedly until the desired setting appears.



Turns random play on or off.

-  (default): Does not play files in random order.



Plays all audio files in the current repeat play range in random order.

- ❑ If you turn random play on when the repeat play range is set to the current file, the repeat play range changes to the whole of the USB storage device automatically. 

Setting a repeat play range

The repeat play range can be changed by only touching a single key.

● Touch the following key repeatedly until the desired setting appears.



Changes the repeat play range.

Music Browse mode

-  (default): Repeats all files.
- : Repeats just the current file.

Folder Browse mode

-  (default): Repeats all files.
- : Repeats the current folder.
- : Repeats just the current file. 

Switching the media file type

When playing a digital media containing a mixture of various media file types you can switch between media file types to play.

1 Touch the following key.



Displays the pop-up menu for selecting a media file type to play in the USB storage device.

2 Touch the item you want to set.

- **Music:**

Playing compressed audio files

Switches the media file type to music (compressed audio).

- **Video:**
Switches the media file type to video.
- **Photo:**
Switches the media file type to still image (JPEG data). 

Operating with the buttons

Touch the TRK button

You can skip files forward or backward.

Touch and hold the TRK button

You can perform fast reverse or fast forward. 

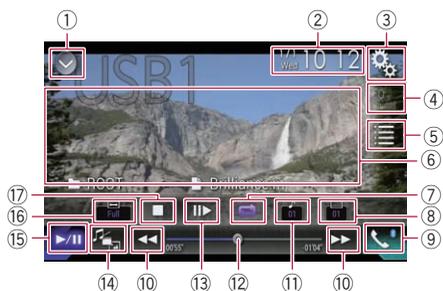
You can play compressed video files stored in a USB storage device.

- ➔ For details, refer to *Media compatibility chart* on page 120.

CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, you must stop in a safe place and apply the handbrake.

Using the touch panel keys



- ① **Displays the source list.**
➔ For details, refer to *Selecting a front source on the source list* on page 12.
- ② **Displays the Time and date setting screen.**
➔ For details, refer to *Setting the time and date* on page 104.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
➔ For details, refer to *Using the equaliser* on page 93.
- ⑤ **Selects a file from the list.**
➔ For details, refer to *Selecting files from the file name list* on page 47.
- ⑥ **Hides the touch panel keys.**
Touching this area hides the touch panel keys.
 Touch anywhere on the LCD screen to display the touch panel keys again.
- ⑦ **Sets a repeat play range.**
➔ For details, refer to *Setting a repeat play range* on page 47.

- ⑧ **Switches the subtitle language.**
With DivX featuring multi-subtitle recordings, you can switch between subtitle languages during playback.
- ⑨ **Displays the Phone menu screen.**
➔ For details, refer to *Displaying the phone menu* on page 22.
- ⑩ **Skips files forward or backward.**
- ⑪ **Switches the audio language.**
With DivX files that provide audio playback in different languages and different audio systems (Dolby Digital, DTS, etc.), you can switch between languages or audio systems during playback.
- ⑫ **Changes the playback point by dragging the key.**
➔ For details, refer to *Operating the time bar* on page 14.
- ⑬ **Slows down playback speed (slow-motion playback).**
➔ For details, refer to *Slow motion playback* on page 47.
- ⑭ **Switches the media file type.**
➔ For details, refer to *Switching the media file type* on page 48.
- ⑮ **Switches between playback and pause.**
- ⑯ **Changes the wide screen mode.**
➔ For details, refer to *Changing the wide screen mode* on page 105.
- ⑰ **Stops playback.**

Reading the screen



- ① **Current time and date**
- ② **Play time indicator**

Playing compressed video files

Shows the elapsed playing time within the current file.

③ Current file information

-  **File name**
Shows the name of the file currently playing.
-  **Folder name**
Shows the name of the folder containing the file currently playing. 

Starting procedure

1 Display the AV source selection screen.

- ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 12.

2 Plug the USB storage device into the USB connector.

- ➔ For details, refer to *Plugging in a USB storage device* on page 8.

3 Touch [USB] on the AV source selection screen.

The image is displayed on the screen.

4 Use the touch panel keys on the screen to control the USB storage device.

- ➔ For details, refer to *Using the touch panel keys* on page 46.
- Playback is performed in order of folder numbers. Folders are skipped if they contain no playable files. If there are no playable files in folder 01 (root folder), playback starts from folder 02. 

Selecting files from the file name list

You can select files to view using the file name list which is a list of the files stored in the USB storage device.

1 Touch the following key.



Displays the list of the files or folders stored in the USB storage device.

2 Touch a file on the list to play back.

- Files are played back in file number order and folders are skipped if they contain no files. (If folder 01 (root folder) contains no files, playback commences with folder 02.)
- Touching a folder on the list shows its contents. You can play a file on the list by touching it.
 - Touch the playback sign of the thumbnail to preview the file. 

Setting a repeat play range

The repeat play range can be changed by only touching a single key.

● Touch the following key repeatedly until the desired setting appears.



Changes the repeat play range.

-  (default):
Repeats all files.
- :
Repeats just the current folder.
- :
Repeats just the current file. 

Slow motion playback

This lets you slow down the playback speed.

1 Touch and hold [II▶] until an arrow icon is displayed during playback.

The arrow icon is displayed, and forward slow motion playback begins.

- To return to normal playback, touch [▶/II].

2 Touch [⏮▶] to adjust playback speed during slow motion playback.

- ❑ There is no sound during slow motion playback.
- ❑ With some USB storage devices, images may be unclear during slow motion playback.
- ❑ Reversed slow motion playback is not possible.

Switching the media file type

When playing a digital media containing a mixture of various media file types you can switch between media file types to play.

1 Touch the following key.



Displays the pop-up menu for selecting a media file type to play in the USB storage device.

2 Touch the item you want to set.

- **Music:**
Switches the media file type to music (compressed audio).
- **Video:**
Switches the media file type to video.
- **Photo:**
Switches the media file type to still image (JPEG data).

Operating with the buttons

Touch the TRK button

You can skip files forward or backward.

Touch and hold the TRK button

You can perform fast reverse or fast forward.

Playing compressed still image files

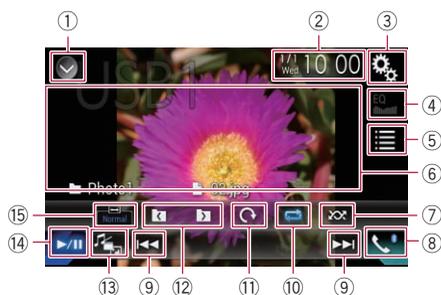
You can view still images stored in a USB device.

- For details, refer to *Media compatibility chart* on page 120.

CAUTION

For safety reasons, still images cannot be viewed while your vehicle is in motion. To view still images, you must stop in a safe place and apply the handbrake.

Using the touch panel keys



- ① **Displays the source list.**
 - For details, refer to *Selecting a front source on the source list* on page 12.
- ② **Displays the Time and date setting screen.**
 - For details, refer to *Setting the time and date* on page 104.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - This key is not available while you are viewing still images stored in a USB storage device.
- ⑤ **Selects a file from the list.**
 - For details, refer to *Selecting files from the file name list* on page 50.
- ⑥ **Hides the touch panel keys.**

Touching this area hides the touch panel keys.

 - Touch anywhere on the LCD screen to display the touch panel keys again.
- ⑦ **Plays files in random order.**

- For details, refer to *Playing files in random order* on page 50.
- ⑧ **Displays the Phone menu screen.**
 - For details, refer to *Displaying the phone menu* on page 22.
- ⑨ **Skips files forward or backward.**
- ⑩ **Sets a repeat play range.**
 - For details, refer to *Setting a repeat play range* on page 50.
- ⑪ **Rotates the displayed picture 90° clockwise.**
- ⑫ **Selects the previous folder or the next folder.**
- ⑬ **Switches the media file type.**
 - For details, refer to *Switching the media file type* on page 50.
- ⑭ **Switches between playback and pause.**
- ⑮ **Changes the wide screen mode.**
 - For details, refer to *Changing the wide screen mode* on page 105.

Reading the screen



- ① **Current time and date**
- ② **Current file information**
 - **File name**
Shows the name of the file currently playing.
 - **Folder name**
Shows the name of the folder containing the file currently playing.

Starting procedure

1 Display the AV source selection screen.

- ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 12.

2 Plug the USB storage device into the USB connector.

- ➔ For details, refer to *Plugging in a USB storage device* on page 8.
- ☐ Playback is performed in order of folder numbers. Folders are skipped if they contain no playable files. If there are no playable files in folder 01 (root folder), playback starts from folder 02.

3 Touch [USB] on the AV source selection screen.

The image is displayed on the screen.

4 Use the touch panel keys on the screen to control the USB storage device.

- ➔ For details, refer to *Using the touch panel keys* on page 49.

Selecting files from the file name list

You can select files to view using the file name list which is a list of the files stored in the USB storage device.

1 Touch the following key.



Displays the list of the files stored in the USB storage device.

2 Touch a file on the list to play back.

- ☐ Files are played back in file number order and folders are skipped if they contain no files. (If folder 01 (root folder) contains no files, playback commences with folder 02.)
- ☐ Touching a folder on the list shows its contents. You can play a file on the list by touching it.

Playing files in random order

All files in the USB storage device can be played at random by only touching a single key.

● Touch the following key repeatedly until the desired setting appears.



Turns random play on or off.

-  (default): Does not play files in random order.
- : Plays all files in the current repeat play range in random order.
 - ☐ If you turn random play on when the repeat play range is set to the current file, the repeat play range changes to the whole of the USB storage device automatically.

Setting a repeat play range

The repeat play range can be changed by only touching a single key.

● Touch the following key repeatedly until the desired setting appears.



Changes the repeat play range.

-  (default): Repeats all files.
- : Repeats the current folder.

Switching the media file type

When playing a digital media containing a mixture of various media file types you can switch between media file types to play.

1 Touch the following key.



Displays the pop-up menu for selecting a media file type to play in the USB storage device.

Playing compressed still image files

2 Touch the item you want to set.

- **Music:**
Switches the media file type to music (compressed audio).
- **Video:**
Switches the media file type to video.
- **Photo:**
Switches the media file type to still image (JPEG data).

Touch and hold the TRK button

You can search 10 JPEG files at a time.

- If the number of files in the folder (from the file currently being played to the first or last file) is fewer than 10, the first or last file in the folder is automatically played.
- If the file currently being played is the first or last file in the folder, the search is not performed.

Setting the slideshow interval

JPEG files can be viewed as a slideshow on this product. In this setting, the interval between each image can be set.

- This setting is available during playback of the JPEG files.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Video Setup" screen appears.

3 Touch [Time Per Photo Slide].

The pop-up menu appears.

4 Touch the item you want to set.

- **10sec** (default):
JPEG images switch at intervals of 10 seconds.
- **5sec:**
JPEG images switch at intervals of 5 seconds.
- **15sec:**
JPEG images switch at intervals of 15 seconds.
- **Manual:**
JPEG images can be switched manually.

Operating with the buttons

Touch the TRK button

You can skip files forward or backward.

For iPod with a 30-pin connector users

- ❑ Depending on your iPod, there may not be any output unless you use a USB interface cable for iPod / iPhone (CD-IU201S/CD-IU201V) (sold separately). Be sure to use a USB interface cable for iPod / iPhone (CD-IU201S/CD-IU201V) (sold separately) to connect your iPod.

iPod audio and/or video sources are enabled if either of the cables is connected.

- ➔ For details of the connections, refer to the Installation Manual.

For iPod / iPhone with a Lightning connector users

- ❑ To use iPod audio source, you must connect your iPod to this product using a USB interface cable for iPod / iPhone (CD-IU52) (sold separately).

However, functions related to iPod video files and **AppRadio Mode** are not available.

- ❑ iPod audio and/or video sources are not available when an iPod with a Lightning connector is connected to this product with a interface cable (CD-IH202) (sold separately).

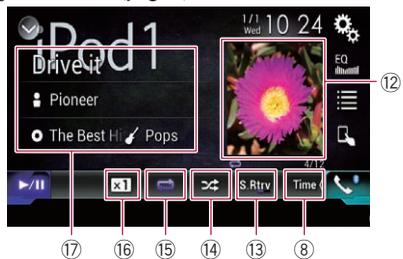
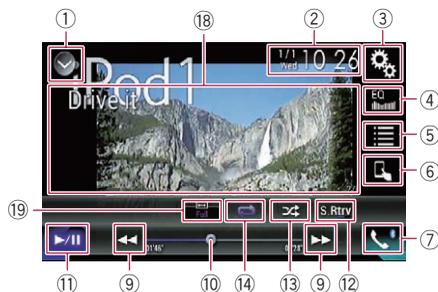
- ➔ For details of the connections, refer to the Installation Manual.

When you want to play audio and/or video files on your iPod with a Lightning connector, first install **CarMediaPlayer** on your iPod with a Lightning connector and then launch **CarMediaPlayer** while in **AppRadio Mode**.

For details about the **CarMediaPlayer**, refer to the information on our website.

CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, you must stop in a safe place and apply the handbrake.

Using the touch panel keys (for audio)**Playback screen (page 1)****Playback screen (page 2)****Using the touch panel keys (for video)****① Displays the source list.**

- ➔ For details, refer to *Selecting a front source on the source list* on page 12.

Using an iPod

- ② **Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 104.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 93.
- ⑤ **Selects a track from the list.**
 - ➔ For details, refer to *Selecting song or video sources from the playlist screen* on page 55.
- ⑥ **Switches the control mode to “App Mode”.**
 - ➔ For details, refer to *Using this product’s iPod function from your iPod* on page 56.
- ⑦ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 22.
- ⑧ **Switches to the next or previous page of touch panel keys.**
- ⑨ **Skips files forward or backward.**
- ⑩ **Changes the playback point by dragging the key.**
 - ➔ For details, refer to *Operating the time bar* on page 14.
- ⑪ **Switches between playback and pause.**
- ⑫ **Displays the song list of the album currently playing.**
 - ➔ For details, refer to *Displaying lists related to the song currently playing (link search)* on page 57.
- ⑬ **Uses “Sound Retriever” function.**
 - ➔ For details, refer to *Setting the “Sound Retriever” function* on page 105.
- ⑭ **Plays files in random order.**
 - ➔ For details, refer to *Setting the shuffle play* on page 55.
- ⑮ **Sets a repeat play range.**
 - ➔ For details, refer to *Setting a repeat play range* on page 55.
- ⑯ **Changes the audiobook speed.**
 - ➔ For details, refer to *Changing the speed of audiobook playback* on page 56.
- ⑰ **Displays the category list including the selected item.**
- ⑱ **Hides the touch panel keys.**
 - Touching this area hides the touch panel keys.

- ❑ Touch anywhere on the LCD screen to display the touch panel keys again.

- ⑲ **Changes the wide screen mode.**
 - ➔ For details, refer to *Changing the wide screen mode* on page 105. ❑

Reading the screen (for audio)



Reading the screen (for video)



- ① **Current track information**
 - **Song title**
Shows the title of the song currently playing (when available). “No Title” is displayed if there is no corresponding information.
 - **Artist name**
Shows the artist name for the song currently playing (when available). “No Name” is displayed if there is no corresponding information.

-  **Album title**
Shows the title of the album of the current file (when available). "No Title" is displayed if there is no corresponding information.
-  **Genre**
Shows the genre of the current file (when available). "No Genre" is displayed if there is no corresponding information.

② **Current time and date**

③ **Album artwork**

Album art of the current song is displayed if it is available.

④ **Playback condition indicator**

Indicates the current playback condition.

Setting the shuffle play

Indicator	Meaning
	Plays back songs or videos in random order within the selected list.
	Selects an album randomly, and then plays back all songs in that album in order.

Setting a repeat play range

Indicator	Meaning
	Repeats all songs or videos in the selected list.
	Repeats just the current song or video.

⑤ **Play time indicator**

Shows the elapsed playing time within the current file. 

1 Display the AV source selection screen.

- For details of the operations, refer to *Displaying the AV operation screen* on page 12.

2 Connect your iPod.

- If the iPod is already connected, touch **[iPod]** on the AV source selection screen.
- If connecting an iPhone or iPod touch, quit applications before connecting.
- If an iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation) is connected, the media library (song information) will be imported from the connected device and saved to this product. Wait until the process completes.
The media library will not be imported if an updated media library of the connected device has been imported or the memory of this product is full.

3 Touch [iPod] on the AV source selection screen.

4 Use the touch panel keys on the screen to control your iPod.

- For details, refer to *Using the touch panel keys (for audio)* on page 52.
- For details, refer to *Using the touch panel keys (for video)* on page 52.
- The video image of the iPod may have noise if the rear display outputs the video image. When noise is produced in the video image of the iPod, turn off the output setting of the rear display.
➤ For details of the operations, refer to *Selecting the video for the rear display* on page 107. 

Starting procedure

When connecting an iPod to this product, you must select the method for connecting your device. Settings are required according to the connected device.

- For details, refer to Chapter 5.

Using an iPod

Setting the shuffle play

This function shuffles songs, albums or videos and plays them in random order.

- **Touch the following key repeatedly until the desired setting appears.**



Turns random play on or off.

- : Plays back songs or videos in random order within the selected list.
- : Selects an album randomly, and then plays back all songs in that album in order.
- The icon does not change when using this function with an iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation). The setting changes when the icon is touched even though the icon does not change. 

Setting a repeat play range

The repeat play range can be changed by only touching a single key.

- **Touch the following key repeatedly until the desired setting appears.**



Changes the repeat play range.

- : Repeats all songs or videos in the selected list.
- : Repeats just the current song or video.
- The icon does not change when using this function with an iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation). The setting changes when the icon is touched even though the icon does not change.
- The no-repeat setting is available only when an iPhone 5s, iPhone 5c, iPhone 5, or iPod

touch (5th generation) is connected to this product. 

Selecting song or video sources from the playlist screen

You can search for the song or video you want to play from the playlist screen.

- 1 Touch the following key.**



Displays the list of the category.

The “ROOT” screen appears.

- 2 Touch the following keys to switch the music or video category list.**



Switches to the music category list.



Switches to the video category list.

- 3 Touch the category you want to search for.**

Category lists (for music):

- Playlists
- Artists
- Albums
- Songs
- Podcasts
- Genres
- Composers
- Audiobooks

Category lists (for video):

- Video Playlists
- Movies
- Music Videos
- TV Shows
- Video Podcasts

Using an iPod

- ❑ Category items that do not correspond to the connected iPod are not displayed.

4 Touch the Initial Search Bar to display the alphabet search screen.

- ❑ The Initial Search Bar is not displayed in the top category list or the song list.

5 Touch the first letter of the title of the song or video you are looking for.

While searching, touch panel key operation is not available.

- ❑ To refine the search with a different letter, touch **[Cancel]**.

6 Touch the title of the list that you want to play.

Repeat this operation until you find the desired song or video.

7 Start playback of the selected list.

- ❑ Depending on the generation or version of the iPod, some functions may not be available.
- ❑ You can play playlists created with the **MusicSphere** application. The application is available on our website.
- ❑ Playlists that you created with the **MusicSphere** application are displayed in abbreviated form. 

Using this product's iPod function from your iPod

You can control this product's iPod function from the connected iPod if the control mode is set to "**App Mode**". The application screen of the iPod can be displayed on this product, and the music files and video files in the iPod can be played back with this product.

- ❑ This function is not available when using iPod function with an iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation).
- ❑ While this function is in use, the iPod will not turn off even if the ignition key is turned off. Operate the iPod to turn off the power.

1 Touch the following key.



Switches the control mode.

- ❑ The control mode switches to "**App Mode**". The icon changes to .

2 Operate the connected iPod to select a video or song and play.

- ❑ The following functions are still accessible from this product even if the control mode is set to "**App Mode**". However, the operation will depend on your applications.
 - Playing/pausing
 - Fast forwarding/reversing
 - Tracking up/down
 - Moving up/down to a chapter

3 Touch the following key.



Switches the control mode, to control iPod functions from this product.



Changing the speed of audiobook playback

The playback speed can be changed while playing an audiobook.

● Touch the following key.



Changes the playback speed.

-  (default): Plays back in normal speed.
- : Plays back faster than normal speed.
- : Plays back slower than normal speed.

Using an iPod

- ❑ The icon does not change when using this function with an iPhone 5s, iPhone 5c, iPhone 5, or iPod touch (5th generation). The setting changes as follows when the icon is touched, even though the icon does not change.
Faster → Slower → Normal → Faster...❑

Displaying lists related to the song currently playing (link search)

- 1 Touch the artwork to open a list of the names of songs on the album currently playing.
- 2 Touch the name of the song you want to play to start playing that song.
 - ❑ If part of the recorded information is not displayed, a scroll key appears on the right side of list. Touch the scroll key to scroll.❑

Operating with the buttons

Touch the TRK button

You can skip songs or videos forward or backward.

- ❑ You can skip songs or videos forward or backward.

When a song or video with chapters is played, you can skip a chapter forward or backward.

Touch and hold the TRK button

You can perform fast reverse or fast forward.❑

Playing back music from a music app other than iPod music, as the iPod source

The app name and the song information are also displayed.

Using the touch panel keys



- 1 Displays the source list.
 - ➔ For details, refer to *Selecting a front source on the source list* on page 12.
- 2 Displays the Time and date setting screen.
 - ➔ For details, refer to *Setting the time and date* on page 104.
- 3 Displays the Setting menu screen.
- 4 Recalls equaliser curves.
 - ➔ For details, refer to *Using the equaliser* on page 93.
- 5 Selects a track from the list.
 - ➔ For details, refer to *Selecting song or video sources from the playlist screen* on page 55.
- 6 Switches the control mode to "App Mode".
 - ➔ For details, refer to *Using this product's iPod function from your iPod* on page 56.
- 7 Displays the Phone menu screen.
 - ➔ For details, refer to *Displaying the phone menu* on page 22.
- 8 Skips files forward or backward.
- 9 Switches between playback and pause.

Reading the screen



- ① **App name**
Shows the App name of the currently playing.
- ② **Song title**
Shows the title of the song currently playing (when available). "No Title" is displayed if there is no corresponding information.
- ③ **Artist name**
Shows the artist name for the song currently playing (when available). "No Name" is displayed if there is no corresponding information.
- ④ **Album title**
Shows the title of the album of the current file (when available). "No Title" is displayed if there is no corresponding information.
- ⑤ **Pause indicator**
- ⑥ **Album artwork**
Album art of the current song is displayed if it is available.

Using your iPhone or smartphone applications

! WARNING

Certain uses of an iPhone or a smartphone may not be legal while driving in your jurisdiction, so you must be aware of and obey any such restrictions.

If in doubt as to a particular function, only perform it while the car is parked.

No feature should be used unless it is safe to do so under the driving conditions you are experiencing.

! CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, you must stop in a safe place and apply the handbrake.

Using AppRadio Mode

You can control applications for an iPhone or a smartphone directly from the screen (**AppRadio Mode**).

In **AppRadio Mode**, you can operate applications with finger gestures such as tapping, dragging, scrolling or flicking on the screen of this product.

- The compatible finger gestures vary depending on the application for an iPhone or a smartphone.
- When an application not compatible with **AppRadio Mode** is started, depending on the application, you can see an image of the application on the screen of this product. However, you will not be able to operate the application.

To use **AppRadio Mode**, install the **AppRadio app** on the iPhone or smartphone beforehand to enable launching of the application on this product. For details about the **AppRadio app**, visit the following site:

<http://www.pioneer.eu/AppRadioMode>

- Be sure to read Important Information for the User (a separate manual) before you perform this operation.

- Pioneer is not liable for any issues that may arise from incorrect or flawed app-based content.
- The content and functionality of the supported applications are the responsibility of the App providers.
- In **AppRadio Mode**, functionality through the product is limited while driving, with available functions determined by the App providers.
- Availability of **AppRadio Mode** functionality is determined by the App provider, and not determined by Pioneer.
- **AppRadio Mode** allows access to applications other than those listed (subject to limitations while driving), but the extent to which content can be used is determined by the App providers.

Using the touch panel keys (App control side bar)



- ① **Displays the source list.**
 - ➡ For details, refer to *Selecting a front source on the source list* on page 12.
- ② **Displays the launcher application screen.**
- ③ **Displays the previous screen.**
 - When you use the iPhone, this key is not appears.
- ④ **Displays the menu screen.**
 - When you use the iPhone, this key is not appears.
- ⑤ **Displays the Phone menu screen.**
 - ➡ For details, refer to *Displaying the phone menu* on page 22.
- ⑥ **Displays the current source.**

Using your iPhone or smartphone applications

- ❑ In **AppRadio Mode**, App control side bar will appear.
- ❑ If you touch the **HOME** button twice, the App control side bar will disappear. Touch the **HOME** button twice again, and the App control side bar will appear.

Starting procedure

When connecting an iPhone or smartphone to this product, you must select the method for connecting your device. Settings are required according to the connected device.

➡ For details, refer to Chapter 5.

The procedure varies depending on the type of device.

For iPhone with a 30-pin connector users

1 Connect your iPhone.

- ➡ For details of the connections, refer to the Installation Manual.

2 Touch the **HOME** button to display the **Top menu screen**.

3 Touch **[APPS]**.

A message, which notifies you that your iPhone can launch the application, appears on the screen.

A message, which asks you whether you want to launch your application, appears on your iPhone.

4 Use your iPhone to launch the application.

The **AppRadio app** is launched.

5 Touch **[OK]** on the screen of this product.

The **AppRadio Mode** screen (Application menu screen) appears.

- ❑ If you connect your device while an **AppRadio Mode**-compatible application is already running, the application operation screen will appear on this product.

6 Touch the desired application icon.

The desired application is launched, and the application operation screen appears.

7 Operate the application.

8 Touch the **HOME** button to return to the **Top menu screen**.

For iPhone with a Lightning connector users

1 Register your iPhone and connect it to this product via Bluetooth wireless technology.

- ❑ The registered device must be selected as the priority device.
- ➡ For details, refer to *Registering your Bluetooth devices* on page 16.

2 Unlock your iPhone.

3 Connect your iPhone.

- ❑ The cable connection method varies depending on your device.
- ➡ For details of the connections, refer to the Installation Manual.

4 Touch the **HOME** button to display the **Top menu screen**.

5 Touch **[APPS]**.

The **AppRadio app** is launched, and the **AppRadio Mode** screen (Application menu screen) appears.

- ❑ If you connect your device while an **AppRadio Mode**-compatible application is already running, the application operation screen will appear on this product.

6 Touch the desired application icon.

The desired application is launched, and the application operation screen appears.

7 Operate the application.

8 Touch the **HOME** button to return to the **Top menu screen**.

Using your iPhone or smartphone applications

For smartphone users

1 Register your smartphone and connect it to this product via Bluetooth wireless technology.

- ❑ The registered device must be selected as the priority device.
 - ➔ For details, refer to *Registering your Bluetooth devices* on page 16.

2 Unlock your smartphone.

3 Connect your smartphone to this product via the separately sold App Connectivity Kit (CD-AH200).

- ❑ The cable connection method varies depending on your device.
 - ➔ For details of the connections, refer to the Installation Manual.

4 Touch the HOME button to display the Top menu screen.

5 Touch [APPS].

The **AppRadio app** is launched, and the **AppRadio Mode** screen (Application menu screen) appears.

- ❑ If you connect your device while an **AppRadio Mode**-compatible application is already running, the application operation screen will appear on this product.

6 Touch the desired application icon.

The desired application is launched, and the application operation screen appears.

7 Operate the application.

8 Touch the HOME button to return to the Top menu screen.

Using the keyboard

⚠ CAUTION

For your safety, the keyboard functionality is only available when the vehicle is stopped and the handbrake is engaged.

- ❑ This function is only available in **AppRadio Mode** on the iPhone.

When you tap the text input area of an application for iPhone, a keyboard will be displayed on the screen. You can input the desired text directly from this product.

- ❑ The language preference for the keyboard of this product should be same as the setting on your iPhone.

If the settings for this product and the iPhone are different, you may be unable to enter characters properly.

1 Set the keyboard language.

- ➔ For details of the operations, refer to *Setting the keyboard language with the application for iPhone* on page 83.

2 Start up the AppRadio Mode.

- ➔ For details, refer to *Starting procedure* on page 60.

3 Touch the text input area on the application operation screen.

A keyboard for entering text appears.



- ① Enters the characters.
- ② Deletes the entered text one letter at a time, beginning at the end of the text.
- ③ Confirms the entry and allows you to proceed to the next step.
- ④ Hides the keyboard and the text can now be entered using the keyboard of the iPhone.
- ⑤ Changes the iPhone keyboard layout.

- ❑ The iPhone keyboard layouts that can be selected by tapping depends on the setting for Hardware Keyboard Layout set on your iPhone.

- ⑥ Switches to a keyboard offering numeric characters and symbols.
- ⑦ Converts the case of the keyboard characters.

Adjusting the image size (For smartphone users)

Black dots may appear on the screen when using **AppRadio Mode** with an Android device connected to this product.

! CAUTION

This setting is available only when you stop your vehicle in a safe place and apply the handbrake.

- This function can be set under the following conditions:
 - When an Android device is connected to this product using the CD-AH200 (sold separately), and when **AppRadio Mode** is available after a Bluetooth connection using SPP (Serial Port Profile) has been established.
- If this setting has not been set, the setting screen automatically appears in the following cases:
 - When entering **AppRadio Mode** after a Bluetooth connection using SPP (Serial Port Profile) has been established.
 - When a Bluetooth connection using SPP (Serial Port Profile) has been established in **AppRadio Mode**.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Input/Output Settings].

4 Touch [AppRadio Video Adjustment].

The confirmation screen appears.

5 Touch [OK].

6 Touch the following keys to adjust the line to fit smartphone image size.



Moves the line to the left.



Moves the line to the right.



Moves the line upward.



Moves the line downward.

7 Touch [Preview].

- Confirm that the whole image fills the screen.

8 Touch [OK].

- If you want to adjust the setting again from the beginning, touch **[RESET]**.

Displaying the image of your application (iPhone with 30-pin connector)

You can set an image of an application for iPhone, which is not compatible with **AppRadio Mode**, to be shown on the screen.

- Depending on the type of application, you may not be able to see the image on the screen.
- You can only control the application on the connected device.
- When you touch the display in this function, “Don't Touch” mark appears on the upper right corner of the screen.

1 Connect your iPhone.

- ➔ For details of the connections, refer to the Installation Manual.

Using your iPhone or smartphone applications

2 Touch the HOME button to display the Top menu screen.

3 Touch [APPS].

A message, which notifies you that your iPhone can launch the application, appears on the screen.

A message, which asks you whether you want to launch your application, appears on your iPhone.

4 Use your iPhone to refuse to launch the application.

5 Touch [OK] on the screen of this product.

The black screen appears.

6 Launch an application on your iPhone.

An image of the application appears on the screen.

7 Touch the HOME button to return to the Top menu screen.

Displaying the image of your application (iPhone with Lightning connector)

You can set an image of an application for smartphone, which is not compatible with **AppRadio Mode**, to be shown on the screen.

- Depending on the type of application, you may not be able to see the image on the screen.
- When you use this function, do not connect other devices via Bluetooth wireless technology. Be sure to disconnect your Bluetooth device before using this function.
- You can only control the application on the connected device.
- When you touch the display in this function, "Don't Touch" mark appears on the upper right corner of the screen.

1 Connect your iPhone.

- The cable connection method varies depending on your device.
- For details of the connections, refer to the Installation Manual.

2 Touch the HOME button to display the Top menu screen.

3 Touch [APPS].

The image in your iPhone appears on the screen.

4 Launch an application on your iPhone.

An image of the application appears on the screen.

5 Touch the HOME button to return to the Top menu screen.

Displaying the image of your application (smartphone)

You can set an image of an application for smartphone, which is not compatible with **AppRadio Mode**, to be shown on the screen.

- Compatibility with all smartphones is not guaranteed.
- When you use this function, do not connect other devices via Bluetooth wireless technology. Be sure to disconnect your Bluetooth device before using this function.
- You can only control the application on the connected device.
- When you touch the display in this function, "Don't Touch" mark appears on the upper right corner of the screen.

1 Connect your smartphone to this product via the separately sold App Connectivity Kit (CD-AH200).

- The cable connection method varies depending on your device.
- For details of the connections, refer to the Installation Manual.

Using your iPhone or smartphone applications

2 Touch the HOME button to display the Top menu screen.

3 Touch [APPS].

The image in your smartphone appears on the screen.

4 Launch an application on your smartphone.

An image of the application appears on the screen.

5 Touch the HOME button to return to the Top menu screen. 

Using Apple CarPlay

You can control applications for an iPhone directly from the screen (**Apple CarPlay**).

In **Apple CarPlay**, you can operate applications with finger gestures such as tapping, dragging, scrolling or flicking on the screen of this product.

Apple CarPlay may not be available in your country or region.

For details about **Apple CarPlay**, visit the following site:

<http://www.apple.com/>

In this chapter, the iPhone compatible with **Apple CarPlay** is referred to as "iPhone".

➔ For details of **Apple CarPlay** compatible devices, refer to *Using the touch panel keys (for audio)* on page 52.

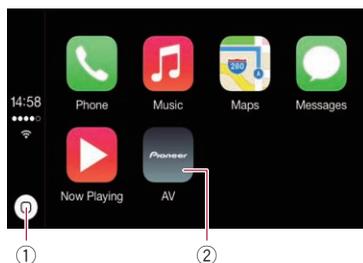
The compatible finger gestures vary depending on the application for iPhone.

To use **Apple CarPlay**, set "**Apple CarPlay**" in "**Smartphone Setup**" to "**On**" beforehand.

➔ For details, refer to *Setting the device connection method* on page 30.

- Pioneer is not liable for any issues that may arise from incorrect or flawed app-based content.
- The content and functionality of the supported applications are the responsibility of the App providers.
- In **Apple CarPlay**, functionality through the product is limited while driving, with available functions determined by the App providers.
- Availability of **Apple CarPlay** functionality is determined by the App provider, and not determined by Pioneer.
- **Apple CarPlay** allows access to applications other than those listed (subject to limitations while driving), but the extent to which content can be used is determined by the App providers.

Using the touch panel keys



- ① **Displays the Application menu screen with a single touch of the key. Launches the voice recognition function if touching and holding the key.**
 - You can also launch the voice recognition function by touching and holding the **HOME** button.
- ② **Displays the Top menu screen of this product.**
 - You can also display the Top menu screen of this product by touching the **HOME** button.

Using your iPhone or smartphone applications

Starting procedure

1 Connect an iPhone to this product via the separately sold USB interface cable for iPod / iPhone (CD-IU52).

The Application menu screen appears.

- ❑ If an iPhone has been connected and another screen is displayed, touch **[Apple CarPlay]** on the Top menu screen to display the Application menu screen.
- ➡ For details of the connections, refer to the Installation Manual.

2 Touch the desired application icon.

The desired application is launched, and the application operation screen appears.

3 Operate the application.

Setting the driving position

You can change the display position of the side bar on the Application menu screen according to the driving position.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “System” screen appears.

3 Touch [Apple CarPlay settings].

4 Touch [Driving Position].

5 Touch the item you want to set.

- **Left** (default):
Select for a left-hand drive vehicle. The side bar on the application menu is displayed on the left-hand side of the screen.
- **Right**:
Select for a right-hand drive vehicle. The side bar on the application menu is displayed on the right-hand side of the screen.

The setting will be applied when the **Apple CarPlay**-compatible device is connected to this product next time.

Adjusting the volume

You can adjust the guidance volume/alert sound volume separately from the main sound volume.

● Touch the VOL (+/-) button.



- ① Touch to mute. Touch again to unmute.
- ② Displays the main sound volume.
- ③ Adjusts the guidance volume/alert sound volume.

Each touch of **[+]** or **[-]** increases or decreases the volume level.

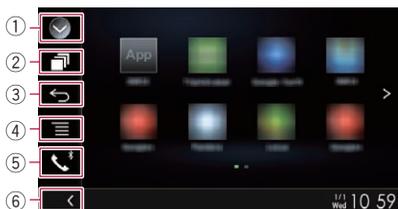
- ❑ You cannot adjust the volume of the main sound on the screen. Touch the **VOL (+/-)** button to adjust the volume of the main sound.
- ❑ The volume menu is displayed for four seconds. If the screen disappears, touch the **VOL (+/-)** button again. The screen reappears. ❑

Using MirrorLink

When you connect a **MirrorLink** device with compatible applications installed, you can control the applications for the mobile device directly from this product (**MirrorLink** mode). You can view and operate the compatible applications via the display with multi-touch gestures like tapping, dragging, scrolling, and flicking.

- ❑ Multi-touch gestures may be disabled depending on the **MirrorLink** device model that is connected.

Using the touch panel keys (App control side bar)



- ① **Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 12.
- ② **Displays the launcher application screen.**
- ③ **Displays the previous screen.**
 - Depending on the type of **MirrorLink** device, this key is not appears.
- ④ **Displays the menu screen.**
 - Depending on the type of **MirrorLink** device, this key is not appears.
- ⑤ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 22.
- ⑥ **Displays the current source.**
 - In **MirrorLink** mode, App control side bar will appear.
 - If you touch the **HOME** button twice, the App control side bar will disappear. Touch the **HOME** button twice again, and the App control side bar will appear.

Starting procedure

When connecting a **MirrorLink** device to this product, you must select the method for connecting your device. Settings are required according to the connected device.

➔ For details, refer to Chapter 5.

1 Unlock your MirrorLink device.

2 Connect your MirrorLink device to this product via the separately sold USB interface cable for use with MirrorLink devices (CD-MU200).

- The cable connection method varies depending on your device.
- ➔ For details of the connections, refer to the Installation Manual.

3 Touch the HOME button to display the Top menu screen.

4 Touch [APPS].

If the launcher application is installed in the **MirrorLink** device, the application launches. If not, the Application menu screen will appear.

5 Touch the desired application icon.

The desired application is launched, and the application operation screen appears.

- Some applications may not launch depending on the state of the connected device. If it does not launch, launch the application according to the application startup message.

6 Operate the application.

7 Touch the HOME button to return to the Top menu screen.

Using the audio mix function

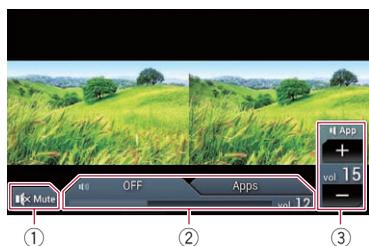
You can output audio mixing AV source and an application for iPhone or smartphone when the **AppRadio Mode** or **MirrorLink** mode is used.

1 Start up the AppRadio Mode or MirrorLink mode.

2 Touch the VOL (+/-) button.

The audio mix menu will be displayed on the screen.

Using your iPhone or smartphone applications



- ① Touch to mute. Touch again to unmute.
 - ② Sets whether to switch the sound mix function on or off.
 - Left tab: The audio mix function is enabled (mix on). The App volume is displayed. If you touch the App volume, the volume keys will be displayed.
 - Right tab: The audio mix function is disabled (mix off).
 - ③ Adjusts the application audio volume. Each touch of [+] or [-] increases or decreases the volume level.
- ❑ The AV operation screen and the Application screen can be switched by touching the **MODE** button.
 - ❑ You cannot adjust the volume of the main sound on the screen. Touch the **VOL (+/-)** button to adjust the volume of the main sound.
 - ❑ The audio mix menu is displayed for four seconds. If the screen disappears, touch the **VOL (+/-)** button again. The screen reappears. ❑

You can control a Bluetooth audio player.

- ❑ Before using the Bluetooth audio player, you must register and connect the device to this product.
 - ➔ For details, refer to *Registering your Bluetooth devices* on page 16.
- ❑ Operations may vary depending on the Bluetooth audio player.
- ❑ Depending on the Bluetooth audio player connected to this product, the available operations with this product may be limited to the following two levels:
 - A2DP (Advanced Audio Distribution Profile): Only playing back songs on your audio player is possible.
 - A2DP and AVRCP (Audio/Video Remote Control Profile): Playing back, pausing, selecting songs, etc., are possible.
- ❑ Since a number of Bluetooth audio players are available on the market, operations with your Bluetooth audio player using this product vary considerably in range. Please refer to the instruction manual that came with your Bluetooth audio player as well as this manual while operating your player on this product.
- ❑ While you are listening to songs on your Bluetooth audio player, please refrain from operating your mobile phone as much as possible. If you try operating your mobile phone, the signal may cause noise for song playback.
- ❑ Even if you switch to another source while listening to a song on your Bluetooth audio player, song playback may continue.
- ❑ Depending on the Bluetooth audio player you connected to this product, operations on this product to control the player may differ from those explained in this manual.
- ❑ When you are talking on a mobile phone connected to this product via Bluetooth wireless technology, song playback from your Bluetooth audio player connected to this product may be paused.
- ❑ This function is not available when **Apple CarPlay** is on.

Using the touch panel keys

Playback screen (page 1)



Playback screen (page 2)



- ① **Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 12.
- ② **Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 104.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 93.
- ⑤ **Selects a file from the list.**
 - ➔ For details, refer to *Selecting files from the file name list* on page 70.
- ⑥ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 22.
- ⑦ **Switches to the next or previous page of touch panel keys.**
- ⑧ **Skips files forward or backward.**
- ⑨ **Uses "Sound Retriever" function.**
 - ➔ For details, refer to *Setting the "Sound Retriever" function* on page 105.

Using a Bluetooth audio player

- ⑩ **Plays files in random order.**
 - ➔ For details, refer to *Playing files in random order* on page 70.
- ⑪ **Sets a repeat play range.**
 - ➔ For details, refer to *Setting a repeat play range* on page 70.
- ⑫ **Switches between playback and pause.**

- In the following cases, file information will only be displayed after a file starts or resumes playing:
 - You connect a Bluetooth audio player compatible with AVRCP1.3, and operate the player to start playing.
 - You select another file when playback is paused.

Reading the screen



- ① **Current time and date**
- ② **File number indicator**
 - Shows the file number currently playing (when available).
- ③ **Play time indicator**
 - Shows the elapsed playing time within the current file (when available).
- ④ **Current file information**
 - If the connected Bluetooth audio player features AVRCP 1.3, the following file information will be displayed.
 - **Track title**
 - Shows the title of the track currently playing (when available).
 - **Artist name**
 - Shows the name of the artist for the track currently playing (when available).
 - **Album title**
 - Shows the title of the album of the current file (when available).
 - **Genre**
 - Shows the genre of the current file (when available).

Starting procedure

1 Pull out the connecting cable for using AppRadio Mode.

- You cannot use Bluetooth audio player when the connecting cable for using **AppRadio Mode** is connected.
- You cannot use Bluetooth audio player when **Apple CarPlay** is on.

2 Touch the HOME button to display the Top menu screen.

3 Touch the following keys in the following order.



The “System” screen appears.

4 Touch [AV Source Settings].

5 Confirm that “Bluetooth Audio” is turned on.

- The default setting is “On”.

6 Display the AV source selection screen.

- ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 12.

7 Touch [Bluetooth Audio] on the AV source selection screen.

The “Bluetooth Audio” screen appears.

8 Use the touch panel keys on the screen to control the Bluetooth audio player.

- ➔ For details, refer to *Using the touch panel keys* on page 68.

Selecting files from the file name list

The file name list lets you see the list of track titles for the Bluetooth audio player and lets you select one of them to play back.

- ❑ This function is only available when the connected Bluetooth audio player supports AVRCP 1.4.

1 Touch the following key.



Displays the file name list.

2 Touch a file on the list to play back.

- ❑ Touching a folder on the list shows its contents. You can play a file on the list by touching it. ■

Playing files in random order

All of the files within the repeat play range can be played at random by only touching a single key.

- ❑ This function is only available when the connected Bluetooth audio player supports AVRCP 1.3.

● Touch the following key repeatedly until the desired setting appears.



Turns random play on or off.



● Touch the following key repeatedly until the desired setting appears.



Changes the repeat play range between the current file and all audio files in the Bluetooth audio player.



Operating with the buttons

Touch the TRK button

You can skip files forward or backward.

Touch and hold the TRK button

You can perform fast reverse or fast forward. ■

Using an HDMI source

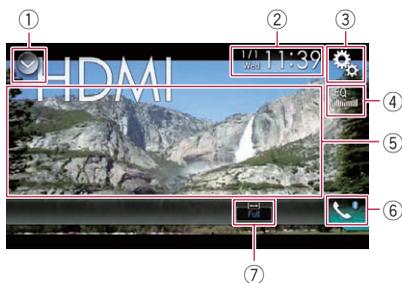
You can display the video image output by the device connected to this product. This section describes operations for an HDMI source.

- ❑ A High Speed HDMI® Cable (sold separately) is required for connection.
 - ➔ For details of the connection method, refer to the Installation Manual.

CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, you must stop in a safe place and apply the handbrake.

Using the touch panel keys



- ① **Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 12.
- ② **Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 104.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 93.
- ⑤ **Hides the touch panel keys.**

Touching this area hides the touch panel keys.

 - ❑ Touch anywhere on the LCD screen to display the touch panel keys again.
- ⑥ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 22.

- ⑦ **Changes the wide screen mode.**
 - ➔ For details, refer to *Changing the wide screen mode* on page 105. ❑

Reading the screen



- ① **Current time and date** ❑

Starting procedure

- 1 **Display the AV source selection screen.**
 - ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 12.
- 2 **Touch [HDMI] on the AV source selection screen.**

The image is displayed on the screen.
- 3 **Use the touch panel keys on the screen to control the external unit.**
 - ➔ For details, refer to *Using the touch panel keys* on page 71. ❑

Using an AUX source

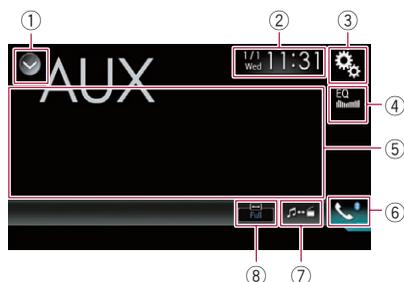
You can display the video image output by the device connected to this product. This section describes operations for an AUX source.

- ❑ A Mini-jack AV cable (CD-RM10) (sold separately) is required for connection.
 - ➔ For details of the connection method, refer to the Installation Manual.

⚠ CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, you must stop in a safe place and apply the handbrake.

Using the touch panel keys



- ① **Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 12.
- ② **Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 104.
- ③ **Displays the Setting menu screen.**
- ④ **Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 93.
- ⑤ **Hides the touch panel keys.**

Touching this area hides the touch panel keys.

 - ❑ Touch anywhere on the LCD screen to display the touch panel keys again.
- ⑥ **Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 22.

- ⑦ **Switches the operation screen.**
 - ➔ For details, refer to *Switching the operation screen* on page 73.
- ⑧ **Changes the wide screen mode.**
 - ➔ For details, refer to *Changing the wide screen mode* on page 105.

Reading the screen



- ① **Current time and date**

Starting procedure

- 1 Touch the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "System" screen appears.

- 3 Touch [Input/Output Settings].
- 4 Confirm that "AUX Input" is turned on.
 - ❑ The default setting is "On".
- 5 Display the AV source selection screen.
 - ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 12.
- 6 Touch [AUX] on the AV source selection screen.

The image is displayed on the screen.

Using an AUX source

7 Use the touch panel keys on the screen to control the external unit.

- For details, refer to *Using the touch panel keys* on page 72.

Setting the video signal

When you connect this product to an AUX equipment, select the suitable video signal setting.

- You can operate this function only for the video signal input into the AUX input.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Video Setup**” screen appears.

3 Touch [Video Signal Setting].

4 Touch [AUX].

The pop-up menu appears.

5 Touch the item you want to set.

- **Auto** (default):
Adjusts the video signal setting automatically.
- **PAL**:
Sets the video signal to PAL.
- **NTSC**:
Sets the video signal to NTSC.
- **PAL-M**:
Sets the video signal to PAL-M.
- **PAL-N**:
Sets the video signal to PAL-N.
- **SECAM**:
Sets the video signal to SECAM.

Switching the operation screen

You can switch between the screen to operate music files and that to operate video files.

- This touch panel key is only available when there are both audio and video files on the auxiliary equipment.

● Touch the following key.



Switches between the screen to operate video files and that to operate music files.



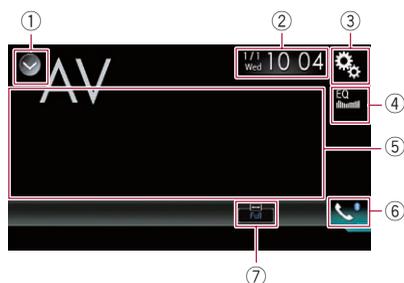
You can display the video image output by the device connected to this product.

- ➔ For details of the connection method, refer to the Installation Manual.

! CAUTION

For safety reasons, video images cannot be viewed while your vehicle is in motion. To view video images, you must stop in a safe place and apply the handbrake.

Using the touch panel keys

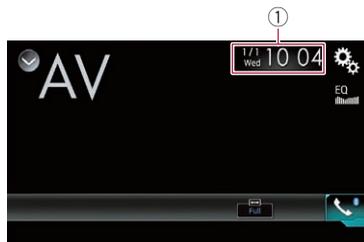


- 1 Displays the source list.**
 - ➔ For details, refer to *Selecting a front source on the source list* on page 12.
- 2 Displays the Time and date setting screen.**
 - ➔ For details, refer to *Setting the time and date* on page 104.
- 3 Displays the Setting menu screen.**
- 4 Recalls equaliser curves.**
 - ➔ For details, refer to *Using the equaliser* on page 93.
- 5 Hides the touch panel keys.**

Touching this area hides the touch panel keys.

 - ☐ Touch anywhere on the LCD screen to display the touch panel keys again.
- 6 Displays the Phone menu screen.**
 - ➔ For details, refer to *Displaying the phone menu* on page 22.
- 7 Changes the wide screen mode.**
 - ➔ For details, refer to *Changing the wide screen mode* on page 105. ☐

Reading the screen



- 1 Current time and date** ☐

Starting procedure

- 1 Touch the HOME button to display the Top menu screen.**
- 2 Touch the following keys in the following order.**



The “System” screen appears.

- 3 Touch [Input/Output Settings].**
- 4 Touch [AV Input].**

The pop-up menu appears.
- 5 Touch [On].**

The video image output by the connected external device can be displayed.
- 6 Display the AV source selection screen.**
 - ➔ For details of the operations, refer to *Displaying the AV operation screen* on page 12.
- 7 Touch [AV] on the AV source selection screen.**

The image is displayed on the screen.
- 8 Use the touch panel keys on the screen to control the external unit.**
 - ➔ For details, refer to *Using the touch panel keys* on page 74. ☐

Using AV input

Setting the video signal

When you connect this product to an AV equipment, select the suitable video signal setting.

- You can operate this function only for the video signal input into the AV input.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Video Setup**” screen appears.

3 Touch [Video Signal Setting].

4 Touch [AV].

The pop-up menu appears.

5 Touch the item you want to set.

- **Auto** (default):
Adjusts the video signal setting automatically.
- **PAL**:
Sets the video signal to PAL.
- **NTSC**:
Sets the video signal to NTSC.
- **PAL-M**:
Sets the video signal to PAL-M.
- **PAL-N**:
Sets the video signal to PAL-N.
- **SECAM**:
Sets the video signal to SECAM.

MIXTRAX is original technology for creating non-stop mixes of selections from your audio library, complete with DJ effects that make them sound as if a DJ is right there with you playing the music.

❑ You can turn MIXTRAX on by touching [MIXTRAX] on the playback screen of compressed audio files.

➔ For details, refer to *Using the touch panel keys* on page 41.

Touch panel keys



- ① Exits the MIXTRAX screen.
- ② Displays the LinkGate screen.
Touch the desired item. Songs related to the selected item are played.
- ③ Specifies the BPM.
The original BPM is not displayed during playback.
- ④ Displays the item selection screen.
➔ For details of the operations, refer to *Selecting an item to play songs* on page 76.
- ⑤ Displays the playback list screen.
➔ For details of the operations, refer to *Selecting songs not to be played* on page 76.
- ⑥ Sets to the original BPM (Beats Per Minute).
- ⑦ Specifies the playback portion.
➔ For details of the operations, refer to *Specifying the playback portion* on page 77.
- ⑧ Touch to select a track.
Touch and hold to fast forward or rewind.

- ⑨ Turns on or off the MIXTRAX original visual display.
- ⑩ Pauses and starts playback.
- ⑪ Displays the item selected on the LinkGate screen or item selection screen. ❑

Selecting an item to play songs

You can specify an item to play songs related to it.

1 Touch the following key.



Displays the item selection screen.

2 Touch the following keys to select the item.



Displays the MIX pattern list.



Displays the tag list.



Displays the file list.

3 Select an item in the list.

Songs related to the selected item are played. ❑

Selecting songs not to be played

You can select items or songs not to be played.

Using MIXTRAX

1 Touch the following key.



Displays the playback list screen.

2 Touch the following key.



Displays the "Playback not allowed" screen.

3 Touch [Songs], [Artists] or [Albums].

4 Touch the box on the left of the item or song that you do not want to play.

An icon is displayed. Items displayed with the icon will not be played.

- If you touch [**Unselect All**], all the selections are cancelled.
- If you touch [**Select All**], all the items are selected.

Specifying the playback portion

You can specify the playback portion.

● Touch the following key repeatedly until the desired setting appears.



Changes the playback portion.

- (default): Plays back a middle portion.
 - Plays back a long portion.
 - Plays back a short portion.
- The most suitable sound effect is automatically applied when switching to the next song.

Setting the flash pattern

The flashing colour changes with the changes in the sound and bass levels.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [AV Source Settings].

4 Touch [MIXTRAX Settings].

5 Touch [Flash Pattern].

The pop-up menu appears.

6 Touch the item you want to set.

- **Sound1** (default) to **Sound6**:
The flash pattern changes according to the sound level. Select a desired mode.
- **L-Pass1** to **L-Pass6**:
The flash pattern changes according to the bass level. Select a desired mode.
- **Random1**:
The flash pattern changes randomly according to the sound level mode and low pass mode.
- **Random2**:
The flash pattern changes randomly according to the sound level mode.
- **Random3**:
The flash pattern changes randomly according to the low pass mode.
- **Off**:
The flash pattern does not flash.

Setting the FM tuning step

Depending on the region, the tuning step can be changed. The FM tuning step can be switched between 100 kHz and 50 kHz.

- This setting is available when the selected source is "OFF".

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [AV Source Settings].

4 Touch [Radio Settings].

5 Touch [FM Step] repeatedly until the desired setting appears.

- **100kHz** (default):
Switches to 100 kHz.
- **50kHz**:
Switches to 50 kHz. □

Activating the Bluetooth audio source

You need to activate the Bluetooth audio source in order to use a Bluetooth audio player.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [AV Source Settings].

4 Touch [Bluetooth Audio] repeatedly until the desired setting appears.

- **On** (default):
Activates the Bluetooth audio source.
- **Off**:
Deactivates the Bluetooth audio source. □

Setting the ever scroll

When "Ever Scroll" is set to "On", recorded text information scrolls continuously in the display. Set to "Off" if you prefer the information to scroll just once.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [Ever Scroll] repeatedly until the desired setting appears.

- **Off** (default):
Turns the ever scroll setting off.
- **On**:
Turns the ever scroll setting on. □

Setting AV input

You can use external video equipment such as portable players connected to this product with this setting.

1 Touch the HOME button to display the Top menu screen.

System settings

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Input/Output Settings].

4 Touch [AV Input].

The pop-up menu appears.

- **Off** (default):
Deactivates the AV source.
- **On**:
Displays the video image output by the connected external device.

Setting the rear view camera

The following two functions are available. A separately sold rear view camera (e.g. ND-BC6) is required for utilising the rear view camera function. (For details, consult your dealer.)

Rear view camera

This product features a function that automatically switches to the full-screen image of the rear view camera installed on your vehicle. When the gearstick is in the REVERSE (R) position, the screen automatically switches to full-screen rear view camera image.

- If the gearstick is aligned to the REVERSE (R) position immediately after the system of this product is started up, only the camera image will be displayed and the parking assist guidelines and the message, “**The image may appear reversed**” will not be displayed. The parking assist guidelines and the message will be displayed on the camera image after a little while. Be sure to check the conditions around the vehicle even before the guidelines and the message are displayed.

Camera for Camera View mode

Camera View can be displayed at all times (e.g. when monitoring an attached trailer, etc.). Please note that with this setting, the camera image is not resized to fit, and that a portion of what is seen by the camera is not viewable.

CAUTION

Pioneer recommends the use of a camera which outputs mirror reversed images, otherwise the screen image may appear reversed.

- Immediately verify whether the display changes to a rear view camera image when the gearstick is moved to REVERSE (R) from another position.
- When the screen changes to full-screen rear view camera image during normal driving, switch to the opposite setting in “**Camera Polarity**”.

Setting rear view camera activation

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Camera settings].

4 Touch [Back Camera Input] repeatedly until the desired setting appears.

- **Off** (default):
Turns the back camera input setting off.
- **On**:
Turns the back camera input setting on.

Setting the polarity of the rear view camera

- This function is available when “Back Camera Input” is “On”.
- ➔ For details, refer to *Setting rear view camera activation* on page 79.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “System” screen appears.

3 Touch [Camera settings].

4 Touch [Camera Polarity] repeatedly until the desired setting appears.

- **Battery** (default):
When the polarity of the connected lead is positive while the gearstick is in the REVERSE (R) position.
- **Ground**:
When the polarity of the connected lead is negative while the gearstick is in the REVERSE (R) position.

When the gearstick is moved to the REVERSE (R) position after setting the rear view camera, the rear view image appears. □

Setting the camera for Camera View mode

To display **Camera View** at all times, “Camera View” needs to be set to “On”.

- To set the rear view camera for **Camera View** mode, “Back Camera Input” needs to be set to “On”.
- ➔ For details, refer to *Setting rear view camera activation* on page 79.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “System” screen appears.

3 Touch [Camera settings].

4 Touch [Camera View] repeatedly until the desired setting appears.

- **Off** (default):
Turns the camera view setting off.
- **On**:
Turns the camera view setting on.

If no operations are performed for seven seconds after the AV operation screen is displayed, the camera view will appear automatically.

- If you touch the screen while the camera view is displayed, the displayed image will turn off temporarily. □

Displaying the parking assist guidelines

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “System” screen appears.

3 Touch [Camera settings].

4 Touch [Parking Assist Guide] repeatedly until the desired setting appears.

- **Off** (default):
Hides the guidelines.

System settings

- **On:**

Displays the guidelines.

When the gearstick is moved to the REVERSE (R) position after setting the rear view camera, the rear view image appears. 

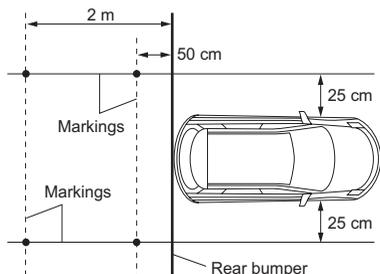
Setting guidelines on the rear view image

CAUTION

- When adjusting the guidelines, be sure to park the vehicle in a safe place and apply the handbrake.
- Before getting out of the car to place the markings, be sure to turn the ignition switch off (ACC OFF).
- The range projected by the rear view camera is limited. Also, the vehicle width and distance guidelines displayed on the rear view camera image may differ from the actual vehicle width and distance. (The guidelines are straight lines.)
- The image quality may deteriorate depending on the usage environment, such as at night or in dark surroundings.

1 Park your vehicle in a safe place and apply the handbrake.

2 Using packing tape or similar, place markings approximately 25 cm from each side of the vehicle, and approximately 50 cm and 2 m from the rear bumper.



3 Touch the HOME button to display the Top menu screen.

4 Touch the following keys in the following order.



The “System” screen appears.

5 Touch [Camera settings].

6 Touch [Parking Assist Guide Adjust].

7 Set the guidelines by dragging the four points.

8 Touch the following keys to adjust the position of the point if necessary.



Moves the point to the left.



Moves the point to the right.



Moves the point upward.



Moves the point downward.



Extends the line to the left and right from the current centre point of the distance guideline. The adjustment points on the lateral coordinates at both ends will also move.



Shortens the line from the left and right to the current centre point of the distance guideline. The adjustment points on the lateral coordinates at both ends will also move.

Default

Resets the settings of the distance and vehicle width guidelines and adjustment points to the default.

- When a point is moved, the distance from the initial value is displayed at the bottom of the screen. 

Setting the safe mode

For safety reasons, you can limit the functions that are available while your vehicle is in motion.

- 1 Touch the **HOME** button to display the **Top menu screen**.
- 2 Touch the following keys in the following order.



The **“System”** screen appears.

- 3 Touch **[Safe Mode]** repeatedly until the desired setting appears.

- **On** (default):
Activates the safe mode function.
- **Off**:
Deactivates the safe mode function.

Turning off the demo screen

If the demo screen appears, perform the following procedure to turn off the demo screen.

- 1 Touch the **HOME** button to display the **Top menu screen**.
- 2 Touch the following keys in the following order.



The **“System”** screen appears.

- 3 Touch **[Demo Mode]** repeatedly until the desired setting appears.

- **On** (default):
Displays the demo screen.
- **Off**:
Hides the demo screen.

Selecting the system language

The system language can be selected.

- The language can be changed for the following:
 - The **“Audio”** screen
 - The **“System”** screen
 - The **“Video Setup”** screen
 - The **“Bluetooth”** screen
 - Language for messages
 Some operations on this product are prohibited from use while driving or require careful attention when operated. In such cases, a caution message will appear on the display. You can change the language for caution messages with this setting.
- If the embedded language and the selected language setting are not the same, text information may not display properly.
- Some characters may not be displayed properly.

- 1 Touch the **HOME** button to display the **Top menu screen**.

- 2 Touch the following keys in the following order.



The **“System”** screen appears.

- 3 Touch **[System Language]**.

The pop-up menu appears.

- 4 Touch the desired language.

After the language is selected, the previous screen returns.

System settings

Setting the keyboard language with the application for iPhone

You can use the keyboard in **AppRadio Mode** by setting the language of the keyboard for iPhone.

- This function is only available in **AppRadio Mode** on the iPhone.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Keyboard].

The pop-up menu appears.

4 Touch the desired language.

After the language is selected, the previous screen returns.

Setting the beep sound

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Beep Tone] repeatedly until the desired setting appears.

- **On** (default):
Sounds a beep.
- **Off**:
Does not sound a beep.

Adjusting the picture

You can adjust the picture for each source and rear view camera.

! CAUTION

For safety reasons, you cannot use some of these functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the handbrake. Refer to Important Information for the User (a separate manual).

1 Display the screen you wish to adjust.

2 Touch the HOME button to display the Top menu screen.

3 Touch the following keys in the following order.



The “**System**” screen appears.

4 Touch [Picture Adjustment].

5 Touch any of the following keys to select the function to be adjusted.

Picture adjustment items are displayed.

- **Brightness:**
Adjusts the black intensity.
 - **Contrast:**
Adjusts the contrast.
 - **colour:**
Adjusts the colour saturation.
 - **Hue:**
Adjusts the tone of colour (which colour is emphasised, red or green).
 - **Dimmer:**
Adjusts the brightness of the display.
 - **Temperature:**
Adjusts the colour temperature, resulting in a better white balance.
- You can adjust **Hue** only when the colour system is set to NTSC.

- If you touch [**Rear View**], the mode changes to the rear view camera mode. By touching [**Source**] or [**Apps**], you can return to the selected mode.

6 Touch the following keys to adjust the selected item.



Decreases the level of the selected item.



Increases the level of the selected item.



Selects the adjustable previous item.



Selects the adjustable next item.

Each time you touch the key, the level of the selected item increases or decreases.

- ❑ **"Brightness"**, **"Contrast"**, **"colour"** and **"Hue"** can be adjusted from **"-24"** to **"+24"**.
- ❑ **"Dimmer"** can be adjusted from **"+1"** to **"+48"**.
- ❑ **"Temperature"** can be adjusted from **"+3"** to **"-3"**.
- ❑ The adjustments of **"Brightness"** and **"Contrast"** are stored separately when your vehicle's headlights are off (daytime) and when your vehicle's headlights are on (nighttime). These are switched automatically depending on whether the vehicle's headlights are on or off.
- ❑ The adjustment of **"Dimmer"** is stored separately when your vehicle's headlights are off (daytime) and when your vehicle's headlights are on (nighttime). **"Dimmer"** is switched automatically only when the value of nighttime is lower than that of daytime.
- ❑ The picture adjustment may not be available with some rear view cameras.
- ❑ The setting contents can be memorised separately for the following screens and video images.
 - **AV** and external camera
 - **USB (Video)**, **USB (JPEG)** and **MirrorLink**
 - **HDMI** and **AppRadio Mode (HDMI)**
 - **MIXTRAX**, images output from the external device 

Displaying the firmware version

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The **"System"** screen appears.

3 Touch [System Information].

4 Touch [Firmware Information].

The **"Firmware Information"** screen appears. 

Updating firmware

CAUTION

- The only USB port that supports the firmware update is USB port 1.
- Never turn this product off or disconnect the USB storage device while the firmware is being updated.
- You can only update the firmware when the vehicle is stopped and the handbrake is engaged.

1 Download the firmware update files.

2 Connect a USB storage device to your computer, and then locate the correct update file and copy it onto the USB storage device.

3 Turn the source off.

- For details, refer to *Turning off the AV source* on page 13.

System settings

4 Touch the HOME button to display the Top menu screen.

5 Touch the following keys in the following order.



The "System" screen appears.

6 Touch [System Information].

7 Touch [Firmware Update].

The "Firmware Update" screen appears.

8 Touch [Continue] to display the data transfer mode.

- Follow the on-screen instructions to finish updating the firmware.
- This product will reset automatically after the firmware update is completed if the update is successful.
- When the firmware update starts, the source is turned off and the Bluetooth connection is disconnected.
- If an error message appears on the screen, touch [Continue] to proceed and start the recovery sequence.

Checking the connections of leads

Check that the leads are properly connected between this product and vehicle.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [System Information].

4 Touch [Connection Status].

The "Connection Status" screen appears.

• GPS Antenna

Indicates the connection status of the GPS aerial, the reception sensitivity, and from how many satellites the signal is received.

Colour	Signal communication	Used in positioning
Orange	Yes	Yes
Yellow	Yes	No

- When the GPS aerial is connected to this product, "OK" is displayed. When the GPS aerial is not connected to this product, "NOK" is displayed.
- If reception is poor, please change the installation position of the GPS aerial.

• Positioning Status

Displays the positioning status (3D positioning, 2D positioning, or no positioning), the number of satellites used for positioning (orange), and the number of satellites whose signal has been received (yellow). If signals from more than three satellites are received, the current location can be measured.

➔ For details, refer to *Positioning technology* on page 115.

• Illumination

When the headlights or small lamps of the vehicle are on, "ON" is displayed. When the small lamps of the vehicle are off, "OFF" is displayed. (If the orange/white lead is not connected, "OFF" appears.)

• Back Signal

When the gearstick is shifted to "R", the signal switches to "High" or "Low". (One of these is displayed depending on the vehicle.)

Using fader/balance adjustment

You can select a fader/balance setting that provides an ideal listening environment in all occupied seats.

- This function is available when "Rear Speaker" is set to "On".

1 Touch the **HOME** button to display the **Top menu screen**.

2 Touch the following keys in the following order.



The "Audio" screen appears.

3 Touch [Fader/Balance].

The "Fader/Balance" screen appears.

4 Touch the following keys to adjust the front/rear speaker balance.



Moves towards the front.



Moves towards the rear.

Each time you touch the keys, the front/rear speaker balance moves towards the front or rear.

- "Front25" to "Rear25" is displayed as the front/rear speaker balance moves from the front to rear.
- The default setting is "F/R 0 L/R 0".
- Set "Front" and "Rear" to "0" when using a dual speaker system.

5 Touch the following keys to adjust the left/right speaker balance.



Moves towards the left.



Moves towards the right.

Each time you touch the keys, the left/right speaker balance moves towards the left or right.

- "Left25" to "Right25" is displayed as the left/right speaker balance moves from the left to right.
- The default setting is "L/R 0".
- You can also set the fader/balance by dragging the point on the displayed table.

Using balance adjustment

You can adjust the balance between right/left sound output.

- This function is available when "Rear Speaker" is set to "Off".

1 Touch the **HOME** button to display the **Top menu screen**.

2 Touch the following keys in the following order.



The "Audio" screen appears.

3 Touch [Balance].

The "Fader/Balance" screen appears.

4 Touch the following keys to adjust the left/right speaker balance.



Moves towards the left.



Moves towards the right.

Audio adjustments

Each time you touch the keys, the left/right speaker balance moves towards the left or right.

- ❑ "Left25" to "Right25" is displayed as the left/right speaker balance moves from the left to right.
- ❑ The default setting is "L/R0".
- ❑ You can also set the fader/balance by dragging the point on the displayed table. ❑

Switching sound muting/attenuation

The AV source volume and the iPhone application volume can be automatically muted or attenuated when guidance voice is output from the connected external device.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Audio" screen appears.

3 Touch [Mute Level].

The pop-up menu appears.

4 Touch the item you want to set.

- **ATT** (default):
The volume becomes 1/10.
- **Mute**:
The volume becomes 0.
- **Off**:
The volume does not change. ❑

Adjusting source levels

The **SLA** (source level adjustment) function adjusts the volume level of each source to prevent radical changes in volume when switching between sources.

- ❑ Settings are based on the FM tuner volume level, which remains unchanged.
- ❑ This function is not available when the FM tuner is selected as the AV source.

1 Compare the FM tuner volume level with the level of the source you want to adjust.

2 Touch the HOME button to display the Top menu screen.

3 Touch the following keys in the following order.



The "Audio" screen appears.

4 Touch [Source Level Adjuster].

The "Source Level Adjuster" screen appears.

5 Touch the following keys to adjust the source volume.



Increases the source volume.



Decreases the source volume.

- ❑ If you directly touch the area where the cursor can be moved, the **SLA** setting will be changed to the value of the touched point.
- ❑ "+4" to "-4" is displayed as the source volume is increased or decreased.
- ❑ The default setting is "0".

The following AV sources are set to the same source level adjustment volume automatically.

	Required cable (sold separately)	Smartphone Setup			AV sources
		Device	Connection	Apple CarPlay	
iPod / iPhone with a 30-pin connector	CD-IU201V	iPhone/iPod	USB	—	USB1 iPod1
	CD-IU201S	iPhone/iPod	USB	—	USB1 iPod1 AppRadio Mode
iPod / iPhone with a Lightning connector	<ul style="list-style-type: none"> • CD-IH202 • CD-IU52 • Lightning Di- gital AV Adapter 	iPhone/iPod	Digital AV adapter	—	AppRadio Mode HDMI
	CD-IU52	iPhone/iPod	USB	On	iPod1 Apple CarPlay (*1)
Android device	CD-AH200	Others	HDMI	—	AppRadio Mode HDMI

(*1) Excludes the phone volume.

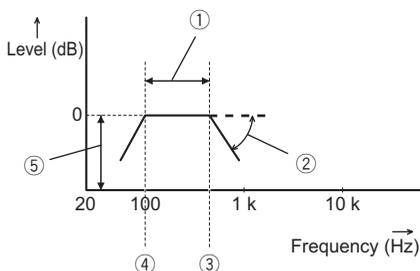
- ❑ When a USB storage device is connected to USB port 1 or USB port 2, the source level adjustment volume is automatically set to the same level as the USB port to which the device is connected. The source level adjustment volume that is automatically set varies depending on whether the device is connected to USB port 1 or USB port 2.
- ❑ When an iPod / iPhone with a Lightning connector is connected to USB port 1 or USB port 2 using a USB interface cable for iPod / iPhone (CD-IU52) (sold separately), the source level adjustment volume is automatically set to the same level as the USB port to which the iPod / iPhone with a Lightning connector is connected. The source level adjustment volume that is automatically set varies depending on whether the iPod / iPhone with a Lightning connector is connected to USB port 1 or USB port 2.
- ❑ When a MirrorLink device is connected to USB port 2, the source level adjustment

volume is automatically set to the same level as USB port 2. ■

Audio adjustments

Adjusting the filter

The following adjustments can be made during filter adjustments. Make the appropriate adjustments for the reproduced frequency band and characteristics of the connected speaker unit.



- ① Reproduced frequency band
- ② Slope adjustment
- ③ Cut-off frequency of the LPF
- ④ Cut-off frequency of the HPF
- ⑤ Level adjustment

Adjusting the front and rear speaker output

You can set the frequency range for the sound output from the front and rear speakers.

- 1 Touch the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Audio" screen appears.

- 3 Confirm that "Rear Speaker" is set to "On".

The default setting is "On".

- 4 Touch [Crossover].

The "Cutoff" screen appears.

- 5 Touch the following keys to select "Front" or "Rear".



Selects the adjustable previous speaker.



Selects the adjustable next speaker.

- 6 Touch [HPF] to turn on.

- 7 Drag the line graph horizontally to adjust the range of cut-off frequency from "50" Hz to "200" Hz.

The default setting is "100" Hz.

- 8 Drag the tip of the slope to adjust the range of level between "-6" dB/oct and "-18" dB/oct.

The default setting is "-12" dB/oct.

Using the subwoofer output

This product is equipped with a subwoofer output mechanism, which can be turned on or off.

- 1 Touch the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The "Audio" screen appears.

- 3 Touch [Subwoofer] to set the subwoofer output "On".

The default setting is "Off".

- 4 Touch [Subwoofer Settings].

The "Cutoff" screen appears.

Audio adjustments

5 Touch the following keys to select "Subwoofer".



Selects the adjustable previous speaker.



Selects the adjustable next speaker.

6 Touch [LPF] to turn on.

7 Touch the following keys to select the phase of subwoofer output.



Sets the phase of subwoofer output to normal.



Sets the phase of subwoofer output to reverse.

8 Drag the line graph horizontally to adjust the range of cut-off frequency from "50" Hz to "200" Hz.

- The default setting is "100" Hz.

9 Drag the tip of the slope to adjust the range of level between "-6" dB/oct and "-18" dB/oct.

- The default setting is "-18" dB/oct.

Selecting the listening position

You can select a listening position that you want to make as the centre of sound effects.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Audio" screen appears.

3 Touch [Listening Position].

The "Listening Position" screen appears.

4 Touch the desired position.

- **Off** (default):
Changes the listening position setting to off.
- **Front:**
Changes the listening position setting to front.
- **Front-L:**
Changes the listening position setting to front left.
- **Front-R:**
Changes the listening position setting to front right.
- **All:**
Changes the listening position setting to all.

Adjusting the speaker output levels finely

Fine adjustments of the speaker output level can be made by listening to audio output.

- This function is available when "Rear Speaker" is set to "On".
 - For details, refer to *Adjusting the front and rear speaker output* on page 89.
- This function is available when "Subwoofer" is set to "On".
 - For details, refer to *Using the subwoofer output* on page 89.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Audio" screen appears.

3 Touch [Speaker Level].

The "Speaker Level" screen appears.

Audio adjustments

4 Touch the following keys to select the listening position if necessary.



Selects the listening position.



- **Off:**
Changes the listening position setting to off.
 - **Front Left:**
Changes the listening position setting to front left.
 - **Front Right:**
Changes the listening position setting to front right.
 - **Front:**
Changes the listening position setting to front.
 - **All:**
Changes the listening position setting to all.
- If you change the listening position setting, the output levels of all the speakers will change in conjunction with the setting.

5 Touch the following keys to adjust the speaker output level.



Decreases the speaker level.



Increases the speaker level.

- "-24" dB to "10" dB is displayed as the distance to be corrected is increased or decreased.
- **Front Left:**
Changes the speaker level of the front left speaker.
 - **Front Right:**

Changes the speaker level of the front right speaker.

- **Rear Left:**
Changes the speaker level of the rear left speaker.
- **Rear Right:**
Changes the speaker level of the rear right speaker.
- **Subwoofer:**
Changes the speaker level of the subwoofer speaker.
 - If you touch [**Apply Auto EQ**], the result of "**A-EQ&TA Measurement**" will be applied to the speaker level setting.
 - To use this function, the vehicle's acoustics must be measured in advance.

Adjusting the time alignment

By adjusting the distance from each speaker to the listening position, time alignment is able to correct the time required for sound to reach the listening position.

- This function is available when "**Rear Speaker**" is set to "**On**".
- ➔ For details, refer to *Adjusting the front and rear speaker output* on page 89.
- This function is available when "**Subwoofer**" is set to "**On**".
- ➔ For details, refer to *Using the subwoofer output* on page 89.
- This function is available only when the listening position setting is set to "**Front Left**" or "**Front Right**".
- ➔ For details, refer to *Selecting the listening position* on page 90.

1 Measure the distance between the head of the listener and each speaker unit.

2 Touch the HOME button to display the Top menu screen.

Audio adjustments

3 Touch the following keys in the following order.



The “**Audio**” screen appears.

4 Touch [Time Alignment].

The “**Time Alignment**” screen appears.

5 Touch the following keys to select the listening position if necessary.



Selects the listening position.



- **Off:**
Changes the listening position setting to off.
 - **Front Left:**
Changes the listening position setting to front left.
 - **Front Right:**
Changes the listening position setting to front right.
 - **Front:**
Changes the listening position setting to front.
 - **All:**
Changes the listening position setting to all.
- If you change the listening position setting, the output levels of all the speakers will change in conjunction with the setting.

6 Touch the following keys to input the distance between the selected speaker and the listening position.



Decreases the distance between the selected speaker and the selected listening position.



Increases the distance between the selected speaker and the selected listening position.

- “**0.0**” cm to “**500.0**” cm is displayed as the distance to be corrected is increased or decreased.
- **Front Left:**
Changes the distance between the front left speaker and the selected listening position.
- **Front Right:**
Changes the distance between the front right speaker and the selected listening position.
- **Rear Left:**
Changes the distance between the rear left speaker and the selected listening position.
- **Rear Right:**
Changes the distance between the rear right speaker and the selected listening position.
- **Subwoofer:**
Changes the distance between the subwoofer speaker and the selected listening position.
 - If you touch [TA On], the time alignment is turned off.
 - This function is available only when the listening position setting is set to “**Front Left**” or “**Front Right**”.
 - If you touch [Apply Auto EQ], the result of “**A-EQ&TA Measurement**” will be applied to the time alignment setting.
 - To use this function, the vehicle’s acoustics must be measured in advance.

Audio adjustments

Using the equaliser

The equaliser lets you adjust equalisation to match the vehicle interior acoustic characteristics as desired.

Recalling equaliser curves

There are seven stored equaliser curves that you can easily recall at any time. Here is a list of the equaliser curves:

Equaliser curve

S.Bass is a curve in which only low-pitched sound is boosted.

Powerful is a curve in which low- and high-pitched sounds are boosted.

Natural is a curve in which low- and high-pitched sounds are slightly boosted.

Vocal is a curve in which the midrange, which is the human vocal range, is boosted.

Flat is a flat curve in which nothing is boosted.

Custom1 is an adjusted equaliser curve that you create. If you select this curve, the effect is applied to all AV sources.

Custom2 is an adjusted equaliser curve that you create. If you select this curve, the effect is applied to all AV sources.

- ❑ The default setting is “**Powerful**”.
- ❑ When “**Flat**” is selected, no supplement or correction is made to the sound. This is useful to check the effect of the equaliser curves by switching alternatively between “**Flat**” and a set equaliser curve.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Audio**” screen appears.

3 Touch [Graphic EQ].

The “**Graphic EQ**” screen appears.

4 Touch the equaliser you want.

Customising the equaliser curves

You can adjust the currently selected equaliser curve setting as desired. Adjustments can be made with a 13-band graphic equaliser.

- ❑ If you make adjustments when a curve “**S. Bass**”, “**Powerful**”, “**Natural**”, “**Vocal**”, or “**Flat**” is selected, the equaliser curve settings will be changed to “**Custom1**” mandatorily.
- ❑ If you make adjustments when the “**Custom2**” curve is selected for example, the “**Custom2**” curve will be updated.
- ❑ “**Custom1**” and “**Custom2**” curves can be created common to all sources.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Audio**” screen appears.

3 Touch [Graphic EQ].

The “**Graphic EQ**” screen appears.

4 Touch one of the keys to select a curve that you want to use as the basis of customising.

5 Touch the frequency for which you want to adjust the level.

- ❑ If you trail a finger across the bars of multiple equaliser bands, the equaliser curve settings will be set to the value of the touched point on each bar.

Using the auto-adjusted equaliser

You can set the auto-adjusted equaliser to suit the vehicle's acoustics. To use this function, the vehicle's acoustics must be measured in advance.

- ➔ For details of the operations, refer to *Adjusting the equaliser curve automatically (Auto EQ)* on page 94.
- ☐ To manually adjust the equaliser curve, set "Auto EQ&TA" to "Off".

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "Audio" screen appears.

3 Touch [Auto EQ&TA] repeatedly until the desired setting appears.

- **Off** (default):
Turns the Auto EQ&TA setting off.
- **On**:
Turns the Auto EQ&TA setting on. ☐

Adjusting the equaliser curve automatically (Auto EQ)

By measuring the vehicle's acoustics, the equaliser curve can be adjusted automatically to suit the vehicle interior.

WARNING

A loud tone (noise) may be emitted from the speakers when measuring the vehicle's acoustics. Never perform Auto EQ measurement while driving.

CAUTION

- Thoroughly check the conditions before performing Auto EQ, as the speakers may be da-

maged if this is performed under the following conditions:

- When the speakers are incorrectly connected. (For example, when a rear speaker is connected as a subwoofer output.)
- When a speaker is connected to a power amp delivering output higher than the speaker's maximum input power capability.
- If a microphone for acoustical measurement (sold separately) is not placed in an appropriate location, the measurement tone may become loud and measurement may take a long time, resulting in battery drainage. Be sure to place the microphone in the specified location.

Before operating the Auto EQ function

- Perform Auto EQ in as quiet a place as possible, with the vehicle engine and air conditioning switched off. Also, cut power to car phones or mobile phones in the vehicle, or remove them from the vehicle before performing Auto EQ. Sounds other than the measurement tone (surrounding sounds, engine sound, telephones ringing, etc.) may prevent correct measurement of the vehicle's acoustics.
- Be sure to perform Auto EQ using the microphone for acoustical measurement (sold separately). Using another microphone may prevent measurement, or result in incorrect measurement of the vehicle's acoustics.
- To perform Auto EQ, the front speakers must be connected.
- When this product is connected to a power amp with input level control, Auto EQ may be impossible if the power amp's input level is set below the standard level.

Audio adjustments

- When this product is connected to a power amp with an LPF (low pass filter), turn the LPF off before performing Auto EQ. Also, set the cut-off frequency for the built-in LPF of an active subwoofer to the highest frequency.
- The distance has been calculated by a computer to provide optimum delay to ensure accurate results. Do not change this value.
 - The reflected sound within the vehicle is strong and delays occur.
 - The LPF on active subwoofers or external amps delay the lower sounds.
- If an error occurs during measurement, a message appears and measurement is cancelled. Check the following before measuring the vehicle's acoustics.
 - Front speakers (left/right)
 - Rear speakers (left/right)
 - Noise
 - Microphone for acoustical measurement (sold separately)
 - Low battery

Performing Auto EQ

- ❑ Auto EQ changes the audio settings as follows:
 - “Auto EQ&TA” is set to “On”.
 - For details, refer to *Using the auto-adjusted equaliser* on page 94.
 - The fader/balance settings return to the centre position.
 - For details, refer to *Using balance adjustment* on page 86.
 - The equaliser curve switches to “Flat”.
 - For details, refer to *Using the equaliser* on page 93.
 - The front and rear speakers will automatically be adjusted to a high pass filter setting.
- ❑ Previous settings for Auto EQ will be overwritten.

⚠ CAUTION

Do not turn off the engine while the measurement is in progress.

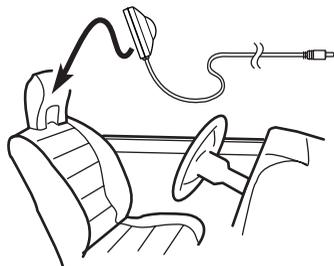
1 Stop the vehicle in a quiet place, close all the doors, windows and sun roof, and then turn the engine off.

If the engine is left running, engine noise may prevent correct Auto EQ.

- ❑ If driving restrictions are detected during measurement, measurement is cancelled.

2 Fix the microphone for acoustical measurement (sold separately) in the centre of the headrest of the driver's seat, facing forward.

The Auto EQ may differ depending on where you place the microphone. If desired, place the microphone on the front passenger seat and perform Auto EQ.



3 Disconnect the iPhone or smartphone device.

4 Turn on the ignition switch (ACC ON).

If the vehicle's air conditioner or heater is turned on, turn it off. Noise from the fan in the air conditioner or heater may prevent correct Auto EQ.

5 Switch the AV source to “OFF”.

- For details of the operations, refer to *Displaying the AV operation screen* on page 12.

6 Touch the HOME button to display the Top menu screen.

7 Touch the following keys in the following order.



The “**Audio**” screen appears.

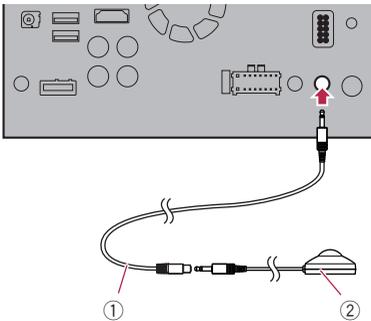
8 Touch [A-EQ&TA Measurement].

The “**A-EQ&TA Measurement**” screen appears.

9 Connect the microphone for acoustical measurement (sold separately) with this product.

Connect the microphone with the mini-jack extension cable, and then plug it into the auxiliary input jack on this product.

- For details of the operations, refer to the Installation Manual.



- ① Mini-jack extension cable
- ② Microphone for acoustical measurement (sold separately)

10 Touch [Front Left] or [Front Right] to select the current listening position.

11 Touch [Start].

A 10-second countdown starts.

- The Bluetooth connection is disconnected before the process starts.

12 Exit the vehicle and keep the doors closed until the countdown finishes.

When the countdown finishes, a measurement tone (noise) is emitted from the speakers and the Auto EQ measurement begins.

13 Wait until the measurement is completed.

When Auto EQ is completed, a message is displayed indicating that the measurement is completed.

- If the vehicle's acoustics cannot be measured correctly, an error message will be displayed.
- The measurement time varies depending on the type of vehicle.
- To stop the measurement, touch [**Stop**].

14 Store the microphone carefully in the glove compartment or another safe place.

If the microphone is subjected to direct sunlight for an extended period, high temperatures may cause distortion, colour change or malfunction. ■

Theme menu

Selecting the background display

The background display can be selected from 8 different preset displays for the AV operation screen and 5 different preset displays for the Top menu screen. Furthermore, you can change the background display to other images imported from an external device.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Theme” screen appears.

3 Touch [Background].

- You can also change the screen for settings by touching [**Illumination**], [**Theme**] or [**Clock**] on this screen.

4 Touch [Home] or [AV] to switch the screen displays.

- The setting contents can be memorised separately for the AV operation screen and the Top menu screen.

5 Touch the item you want to set.

- **Preset displays:**
Selects the desired preset background display.
-  (custom):
Displays the background display image imported from the external device.
 - ➡ For details, refer to *Changing to the background display image stored on the USB storage device* on page 97.
-  (off):
Hides the background display.

Changing to the background display image stored on the USB storage device

You can change the background display image to an image imported from the USB storage device.

- Background display image must be used within the following formats.
 - JPEG image files (.jpg or .jpeg)
 - Allowable data size is 10 MB or smaller
 - Allowable image size is 4 000 × 4 000 pixel or smaller



CAUTION

Do not turn off the engine while importing an image from the USB storage device.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Theme” screen appears.

3 Touch [Background].

- You can also change the screen for settings by touching [**Illumination**], [**Theme**] or [**Clock**] on this screen.

4 Touch the following key.



Displays the list of the background display images stored on the USB storage device.

5 Touch the desired external device.

6 Touch the image to use as the background display from the list.

The image is set as the background display.

- You can delete the imported image and restore the setting for the background display to the default by touching and holding the custom key. 

Setting the illumination colour

The illumination colour can be selected from 5 different colours. Furthermore, the illumination can be switched between these 5 colours in order.

Selecting the colour from the preset colours

You can select an illumination colour from the colour list.

- 1 Touch the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The “Theme” screen appears.

3 Touch [Illumination].

- You can also change the screen for settings by touching [Theme], [Background] or [Clock] on this screen.

4 Touch the colour you want.

- **Coloured keys:**
Selects the desired preset colour.
-  (custom):
Displays the screen to customise the illumination colour.
 - ➔ For details, refer to *Creating a user-defined colour* on page 98.
-  (rainbow):
Shifts gradually between the five default colours in sequence.
- You can preview the Top menu screen or the AV operation screen by touching [Home] or [AV] respectively.

Creating a user-defined colour

You can create a user-defined colour. The created colour is stored, and you can select the

colour when setting the illumination colour the next time.

- 1 Touch the HOME button to display the Top menu screen.
- 2 Touch the following keys in the following order.



The “Theme” screen appears.

3 Touch [Illumination].

- You can also change the screen for settings by touching [Theme], [Background] or [Clock] on this screen.

4 Touch the following key.



Displays the screen to create a user-defined colour and store it to memory.

5 Touch the following keys.



Adjusts the brightness and the level of red, green and blue to create a favourite colour.



- You can also adjust the colour tone by dragging the colour bar.

6 Touch and hold [Memo] to store the customised colour in the memory.

The customised colour is stored in the memory.

The set colour will be recalled from the memory the next time you touch the same key.

Selecting the theme colour

A theme colour can be selected from 5 different colours.

- 1 Touch the HOME button to display the Top menu screen.

Theme menu

2 Touch the following keys in the following order.



The “**Theme**” screen appears.

3 Touch [Theme].

- You can also change the screen for settings by touching [Illumination], [Background] or [Clock] on this screen.

4 Touch the colour you want.

- You can preview the Top menu screen or the AV operation screen by touching [Home] or [AV] respectively.

Selecting the clock image

The clock on the AV operation screen and the Top menu screen can be selected from 3 different images.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Theme**” screen appears.

3 Touch [Clock].

- You can also change the screen for settings by touching [Illumination], [Theme] or [Background] on this screen.

4 Touch the item you want to set.

- **Preset images:**
Selects the desired preset clock image.
- (off):
Hides the clock display.
- You can preview the Top menu screen or the AV operation screen by touching [Home] or [AV] respectively.

Changing the preinstalled splash screen

You can change the splash screen to other images preinstalled in this product.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Theme**” screen appears.

3 Touch [Splash Screen].

4 Touch the item you want to set.

- **Preset images:**
Selects the desired preset splash screen image.
- (custom):
Displays the splash screen image imported from the external device.
- ⇒ For details, refer to *Changing to the splash screen stored on the USB storage device* on page 100.

Changing to the splash screen stored on the USB storage device

You can change the splash screen to other images imported from the USB storage device.



CAUTION

Do not turn off the engine while importing an image from the USB storage device.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “Theme” screen appears.

3 Touch [Splash Screen].

4 Touch the following key.



Displays the list of the splash screens stored on the USB storage device.

5 Touch the desired external device.

6 Touch the image to use as the splash screen from the list.

The image is set as the splash screen.

- You can delete the imported image and restore the setting on the splash screen to the default by touching and holding the custom key. □

Setting up the video player

Displaying your DivX VOD registration code

If you want to play DivX VOD (video on demand) content on this product, you must first register this product with your DivX VOD content provider. You do this by generating a DivX VOD registration code, which you submit to your provider.

- ❑ Keep a record of the code as you will need it when you register this product to the DivX VOD provider.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Video Setup**” screen appears.

3 Touch [DivX Setup].

4 Touch [DivX® VOD].

The “**DivX® VOD**” screen appears.

- ❑ If a registration code has already been activated, it cannot be displayed.

5 Touch [Registration Code].

Your 10-digit registration code is displayed.

- ❑ Make a note of the code as you will need it when you register with a DivX VOD provider. ❑

Displaying your DivX VOD deregistration code

A registration code registered with a deregistration code can be deleted.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Video Setup**” screen appears.

3 Touch [DivX Setup].

4 Touch [DivX® VOD].

The “**DivX® VOD**” screen appears.

5 Touch [Deregistration Code].

Your eight-digit deregistration code is displayed.

- ❑ Make a note of the code as you will need it when you deregister from a DivX VOD provider. ❑

Setting the video signal for the rear view camera

When you connect a rear view camera to this product, select the suitable video signal setting.

- ❑ You can operate this function only for the video signal input into the AV input.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Video Setup**” screen appears.

3 Touch [Video Signal Setting].

4 Touch [Camera].

The pop-up menu appears.

5 Touch the item you want to set.

- **Auto** (default):
Adjusts the video signal setting automatically.
- **PAL**:
Sets the video signal to PAL.
- **NTSC**:
Sets the video signal to NTSC.
- **PAL-M**:
Sets the video signal to PAL-M.
- **PAL-N**:
Sets the video signal to PAL-N.
- **SECAM**:
Sets the video signal to SECAM. 

Setting the video output format

You can switch the video output format of the rear display between NTSC and PAL.

- The video output format setting has no effect on AUX, AV, and iPod sources (when the control mode is set to iPod).
- This function is available when nothing is output to the front screen, and a source other than USB1 and USB2 is output to the rear display.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Video Setup**” screen appears.

3 Touch [Video Output Format] repeatedly until the desired setting appears.

- **PAL** (default):
Sets the video output format to PAL.
- **NTSC**:
Sets the video output format to NTSC. 

Favourite menu

Registering your favourite menu items in shortcuts allows you to quickly jump to the registered menu screen by a simple touch on the “**Favorites**” screen.

- Up to 12 menu items can be registered in the favourite menu.

Creating a shortcut

1 Touch the HOME button to display the Top menu screen.

2 Touch the following key.



Displays the Setting menu screen.

3 Touch the star icon of the menu item that you want to add to the favourite menu.

The star icon for the selected menu is filled in.

- To cancel the registration, touch the star icon in the menu column again.

Selecting a shortcut

1 Touch the HOME button to display the Top menu screen.

2 Touch the following key.



The “**Favorites**” screen appears.

3 Touch the desired item.

Removing a shortcut

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**Favorites**” screen appears.

3 Touch and hold the favourite menu you want to remove.

The selected menu is removed from the “**Favorites**” screen.

- You can also remove a shortcut by touching the star icon of the registered menu item.

Setting the time and date

You can change the date display format and the time format.

1 Touch the current time on the screen to display the Time and date setting screen.

2 Touch the item you want to set.

Time Zone

- **+, -**
Changes the time zone manually.

Month/Date

- **m/d** (default):
Changes the date display format to month/date.
- **d/m**:
Changes the date display format to date/month.

Time Format

- **12hour** (default):
Changes the display to 12-hour format with am/pm.
- **24hour**:
Changes the display to 24-hour format.

Summer Time

- **Off** (default):
Turns the summer time setting off.
- **On**:
Turns the summer time setting on. 

Storing song information to an iPod (iTunes Tagging)

You can store song information to the iPod when this product receives song information. The songs will appear in a playlist called "Tagged playlist" in iTunes the next time you synchronise your iPod. You can directly buy the songs via this product.

Depending on when the song information is stored, information for the previous song or the song after the current song may also be stored. Be sure to confirm the song before you purchase it.

- The iTunes Tagging function is available while digital broadcasts are being received.
- This function is available for the following iPod models:
 - iPhone 4s
 - iPhone 4
 - iPhone 3GS
 - iPhone 3G
 - iPhone
 - iPod touch 5th generation
 - iPod touch 4th generation
 - iPod touch 3rd generation
 - iPod touch 2nd generation
 - iPod touch 1st generation
 - iPod classic
 - iPod nano 6th generation
 - iPod nano 5th generation
 - iPod nano 4th generation
 - iPod nano 3rd generation
- The version of iTunes must be 7.4 or higher.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch [AV Source Settings].

4 Touch [Tag Forwarding] repeatedly until the desired setting appears.

- **USB1** (default):
Transfers the song information to your iPod which is connected to USB port 1.
- **USB2**:
Transfers the song information to your iPod which is connected to USB port 2.

5 Tune into the digital broadcast station.

When the song information is received,  is displayed while the desired song is being broadcast, and the touch panel key becomes active.

Common operations

- For details, refer to *iTunes® tagging indicator* on page 35.
- For details, refer to *Using the touch panel keys* on page 34.

6 Touch the touch panel key on which song information is displayed.

The information on the song on air is stored in this product.

While the information is being acquired,  is displayed.

When it is completed,  turns off and  is displayed.

- The song information for up to 50 songs can be stored in this product. Depending on when the song information is stored, information for the previous song or the song after the current song may also be stored.

7 Connect your iPod.

The song information is transferred to your iPod.

- If the iPod is already connected, the song information will be transferred to your iPod every time you touch the touch panel key on which song information is displayed. When the song information transfer to your iPod is completed,  disappears.
- When the song information transfer is completed, the information stored in this product will be automatically deleted.
- If you turn off this product or disconnect the iPod while transferring song information, the transfer may not successfully complete.
- While this product is storing song information, transfer to an iPod is not possible.

Setting the “Sound Retriever” function

The “**Sound Retriever**” function automatically enhances compressed audio and restores rich sound.

- **Touch the following key repeatedly until the desired setting appears on the AV operation screen.**



Sets the “**Sound Retriever**” function.

-  (Mode1) (default):
Activates the “**Sound Retriever**” function.
 -  (Mode2):
Activates the “**Sound Retriever**” function.
 -  (Off):
Deactivates the “**Sound Retriever**” function.
- Mode1 has a stronger effect than Mode2.

Changing the wide screen mode

You can set the screen size for the video and JPEG images.

- The default setting is “**Full**”, and for JPEG images is “**Normal**”.

1 Touch the following key.



Displays the setting screen to select the appropriate screen ratio for the playback video.

- The appearance of this key changes according to the current setting.

2 Touch the desired mode.

- **Full**
A 4:3 picture is enlarged in the horizontal direction only, enabling you to enjoy a 4:3 TV picture (normal picture) without any omissions.
 This setting is for video only.
- **Zoom**
A 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema-sized (wide screen) picture.
 This setting is for video only.

- **Normal**

A 4:3 picture is displayed normally, giving you no sense of disparity since its proportions are the same as those of the normal picture.

- This setting is for video and JPEG images.

- **Trimming**

An image is displayed across the entire screen with the horizontal-to-vertical ratio left as is. If the horizontal-to-vertical ratio differs between the display and the image, the image may be displayed partly cut off either at the top/bottom or sides.

- This setting is for JPEG images only.
- You cannot operate this function while driving.
- Different settings can be stored for each video source.
- When a video is viewed in a wide screen mode that does not match its original aspect ratio, it may appear different.
- The video image will appear coarser when viewed in “**Zoom**” mode.

Other functions

Selecting the video for the rear display

You can choose either to show the same image as the front screen or to show the selected source on the rear display.

- ❑ This function is not available during a call in **Apple CarPlay**.
- ❑ iPod is not available as a source for the rear display when **Apple CarPlay** is on.
- ❑ Video files on the USB storage device cannot be played back when **Apple CarPlay** is on.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following key.



Displays the AV source selection screen.

3 Touch [Rear].

The "Rear" screen appears.

4 Touch the source you want to show on the rear display.

The source you can select is as follows.

- **Mirror**
 - The video on the front screen of this product is output to the rear display.
 - Not all videos or sounds can be output to the rear display.
- **USB/iPod**
 - The video and sound of the USB storage device or iPod are output to the rear display.
 - The port that supports the rear display will only be USB port 1.
 - Compatible file types are MPEG-4, H.264, WMV, MKV, and FLV only.
- **AV**
 - The video and sound of **AV** are output to the rear display.
 - The video image and sound are output only when "**AV**" has both video and sound.

- The video image and sound are output only when the corresponding settings on "**AV Input**" is "**Source**".

- ➔ For details, refer to *Setting AV input* on page 78.

- **OFF**
 - Nothing is output to the rear display.
- Touch the following key.



Closes the "Rear" screen.

- You can also select [**Rear**] on the source list.
- ➔ For details, refer to *Selecting a front source on the source list* on page 12.

Setting the anti-theft function

You can set a password for this product. If the back-up lead is cut after the password is set, this product prompts for the password at the time of next boot up.

Setting the password

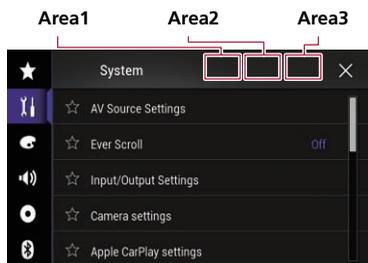
1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The "System" screen appears.

3 Touch Area1, followed by Area2, and then touch and hold Area3.



The “**Anti-theft Setting Menu**” screen appears.

4 Touch [Set Password].

The “**Password Entry**” screen appears.

5 Enter the password you want to set.

- 5 to 16 characters can be entered for a password.

6 Touch [Go].

The “**Hint Entry**” screen appears.

7 Enter a password hint.

- Up to 40 characters can be entered for a hint.

8 Touch [Go].

The “**Password Confirmation**” screen appears.

- If you want to change the password currently set, enter the current password and then enter the new one.

9 Check the password, and then touch [OK].

The “**Anti-theft Setting Menu**” screen appears.

Entering the password

On the password input screen, you must enter the current password.

1 Enter the password.

2 Touch [Go].

When the correct password is entered, this product will be unlocked.

Deleting the password

The current password and password hint can be deleted.

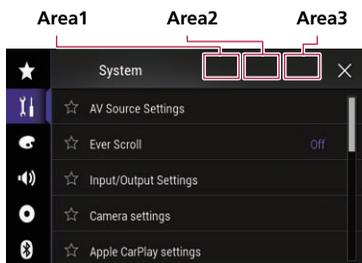
1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch Area1, followed by Area2, and then touch and hold Area3.



The “**Anti-theft Setting Menu**” screen appears.

4 Touch [Clear Password].

A message confirming whether to delete the password appears.

5 Touch [Yes].

The password setting screen appears.

A message confirming a password hint appears.

6 Touch [OK].

The “**Password Entry**” screen appears.

7 Enter the current password.

Other functions

8 Touch [Go].

A message indicating that the security setting is cancelled appears.

Forgotten password

Contact the nearest authorised Pioneer Service Station. 

Restoring this product to the default settings

You can restore settings or recorded content to the default settings. Various methods are used to clear user data.

Method 1: Remove the vehicle battery

Resets various settings registered to this product.

- The settings configured on the “**Theme**” screen are not reset.

Method 2: Touch the item you want to initialise on the “System” screen

➔ For details, refer to *Restoring the default settings* on page 109.

Restoring the default settings

You can reset various settings registered to this product to the default settings.

- This setting is available only when you stop your vehicle in a safe place and apply the handbrake.



CAUTION

Do not turn off the engine while restoring the settings.

1 Touch the HOME button to display the Top menu screen.

2 Touch the following keys in the following order.



The “**System**” screen appears.

3 Touch [Restore Settings].

4 Touch the item you want to initialise.

- **All Settings**
- **Audio Settings**
 - This setting is available when the selected source is “**OFF**”.
- **Theme Settings**
- **Bluetooth Settings**

A message confirming whether to initialise the settings appears.

- If you want to return settings or recorded content to the default, touch [**All Settings**].
- Some of the settings configured on the “**Theme**” setting will not be reset.

5 Touch [Restore].

When the selected item is successfully initialised, a completion message appears.

- The source is turned off and the Bluetooth connection is disconnected before the process starts. 

Appendix

Troubleshooting

If you have problems operating this product, refer to this section. The most common problems are listed below, along with likely causes and solutions. If a solution to your problem cannot be found here, contact your dealer or the nearest authorised Pioneer service facility.

Problems with the AV screen

Symptom	Cause	Action (Reference)
The screen is covered by a caution message and the video cannot be shown.	The handbrake lead is not connected or applied.	Connect the handbrake lead correctly, and apply the handbrake.
	The handbrake interlock is activated.	Park your vehicle in a safe place and apply the handbrake.
No video output from the connected equipment.	The "AV Input" setting is incorrect.	Correct the settings. (Page 78)
The audio or video skips.	This product is not firmly secured.	Secure this product firmly.
No sounds are produced. The volume level will not rise.	Cables are not connected correctly.	Connect the cables correctly.
	The system is performing still or slow motion playback with Video.	There is no sound during still or slow motion playback with Video.
	The system is paused or performing fast reverse or fast forward during playback.	There is no sound on fast reverse or forward.
The icon  is displayed, and operation is impossible.	The operation is not available.	The operation is not available.
The picture stops (pauses) and this product cannot be operated.	The reading of data is impossible during playback.	Stop playback once, then restart.
iPod cannot be operated.	The iPod is frozen.	<ul style="list-style-type: none"> Reconnect the iPod with the USB interface cable for iPod / iPhone. Update the iPod software version.
	An error has occurred.	<ul style="list-style-type: none"> Reconnect the iPod with the USB interface cable for iPod / iPhone. Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to off (ACC OFF). Then restart the engine, and turn the power to this product back on. Update the iPod software version.
	Cables are not connected correctly.	Connect the cables correctly.
Sound from the iPod cannot be heard.	The audio output direction may switch automatically when the Bluetooth and USB connections are used at the same time.	Use the iPod to change the audio output direction.

Problems with the phone screen

Symptom	Cause	Action
Dialling is impossible because the touch panel keys for dialling are inactive.	Your phone is out of range for service.	Retry after re-entering the range for service.
	The connection between the mobile phone and this product cannot be established now.	Perform the connection process.

Appendix

Problems with the Application screen

Symptom	Cause	Action
A black screen is displayed.	While operating an application, the application was ended on the smartphone side.	Touch the HOME button to display the Top menu screen.
	The smartphone OS may be awaiting screen operation.	Stop the vehicle in a safe place and check the screen on the smartphone.
The screen is displayed, but operation does not work at all.	An error has occurred.	<ul style="list-style-type: none"> • Park your vehicle in a safe place, and then turn off the ignition switch (ACC OFF). Subsequently, turn the ignition switch to on (ACC ON) again. • When an Android device is connected, disconnect the Bluetooth connection from this product and then reconnect it.
The smartphone was not charged.	Charging stopped because the temperature of the smartphone rose due to prolonged use of the smartphone during charging.	Disconnect the smartphone from the cable, and wait until the smartphone cools down.
	More battery power was consumed than was gained from charging.	This problem may be resolved by stopping any unnecessary services on the smartphone.



Error messages

When problems occur with this product, an error message appears on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, record the error message and contact your dealer or your nearest Pioneer service centre.

Common

Message	Cause	Action
AMP Error	This product fails to operate or the speaker connection is incorrect; the protective circuit is activated.	Check the speaker connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorised Pioneer Service Station for assistance.
TEMP	The temperature of this product is outside the normal operating range.	Wait until this product returns to a temperature within the normal operating limits.
Product overheat. System will be shut down automatically in 1 minute. Restart the product by ACC-Off/On may fix this problem. If this message keeps showing up, it is possible that some problem occurred in the product.	The temperature is too high for this product to operate.	Follow the instructions displayed on the screen. If this does not solve the problem, contact your dealer or an authorised Pioneer Station for assistance.
Positioning is not possible due to the hardware. Please contact your dealer or Pioneer service center.	The location display is not possible due to hardware failure.	Contact your dealer or an authorised Pioneer Station for assistance.

Appendix

Message	Cause	Action
No GPS antenna. Check connection.	GPS reception is lost.	Check the aerial connection. If the message fails to disappear even after the engine is switched off/on, contact your dealer or an authorised Pioneer Station for assistance.
GPS antenna problem detected. Contact dealer or service center.	GPS aerial lead is short-circuited.	Contact your dealer or an authorised Pioneer Station for assistance.
USB storage device		
Message	Cause	Action (Reference)
Error-02-9X/-DX	Communication failed.	<ul style="list-style-type: none"> • Turn the ignition switch OFF and back ON. • Disconnect the USB storage device. • Change to a different source. Then, return to the USB storage device.
Unplayable File	This type of file cannot be played on this product.	Select a file that can be played. (Page 120)
	Security for the connected USB storage device is enabled.	Follow the USB storage device instructions to disable security.
Skipped	The connected USB storage device contains DRM protected files.	The protected files are skipped.
Protect	All the files on the connected USB storage device are embedded with DRM.	Replace the USB storage device.
Incompatible USB	The connected USB storage device is not supported by this product.	Disconnect your device and replace it with a compatible USB storage device.
Check USB	The USB connector or USB cable is short-circuited.	Check that the USB connector or USB cable is not caught in something or damaged.
	The connected USB storage device consumes more than maximum allowable current.	Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.
This DivX rental has expired.	The connected USB storage device contains expired DivX VOD content.	Select a file that can be played.
Video resolution not supported	Files that cannot be played on this product are included in the file.	Select a file that can be played. (Page 120)
It is not possible to write it in the flash. Unable to write to flash memory.	The playback history for VOD contents cannot be saved for some reason.	<ul style="list-style-type: none"> • Retry. • If the message appears frequently, consult your dealer.
Your device is not authorized to play this DivX protected video.	This product's DivX registration code has not been authorised by the DivX VOD contents provider.	Register this product to the DivX VOD contents provider.
Video frame rate not supported	DivX file's frame rate is more than 30 fps.	Select a file that can be played.

Appendix

Message	Cause	Action (Reference)
USB1 was disconnected for device protection. Do not re-insert this USB memory into the unit. USB2 was disconnected for device protection. Do not re-insert this USB memory into the unit.	The USB connector or USB cable is short-circuited.	Check that the USB connector or USB cable is not caught in something or damaged.
	The connected USB storage device consumes more than maximum allowable current.	Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect a compliant USB storage device.
	The USB interface cable for iPod / iPhone is short-circuited.	Confirm that the USB interface cable for iPod / iPhone or USB cable is not caught in something or damaged.
Audio Format not supported	This type of file is not supported on this product.	Select a file that can be played. (Page 120)

iPod

Message	Cause	Action
Error-02-6X/-9X/-DX	iPod failure.	Disconnect the cable from the iPod. Once the iPod's main menu is displayed, reconnect the iPod and reset it.
Error-02-67	The iPod firmware version is old.	Update the iPod version.

iTunes tagging

Message	Cause	Action
Error-8D	Built-in FLASH ROM encountered an error.	Turn the ignition switch to OFF and then to ON.
Tag store failed.	Tag information cannot be stored in this product.	Try again.
Already stored.	This tag information is already stored in memory.	Tag information can only be saved once for any given song. Tag information cannot be saved for the same song more than once.
Memory full. Connect iPod.	The tag information is successfully stored. The flash memory of this product has become full.	The tag information on this product is transferred to the iPod automatically when an iPod is connected.
Memory full. Tags not stored. Connect iPod.	This product's flash memory used as the temporary storage area is full.	The tag information on this product is transferred to the iPod automatically when an iPod is connected.
iPod full. Tags not transferred.	Memory used for tag information on the iPod is full.	Sync the iPod with iTunes and clean up the tagged playlist.
Tag transfer failed. Reconnect your iPod.	This product's tag information cannot transfer to the iPod.	Check the iPod and try again.

Bluetooth

Message	Cause	Action
Error-10	The power failed for the Bluetooth module of this product.	Turn the ignition switch to OFF and then to ON. If the error message is still displayed after performing the above action, please contact your dealer or an authorised Pioneer Service Station.

Appendix

Apple CarPlay

Message	Cause	Action
Apple CarPlay is currently unavailable.	The session was terminated for some reason.	<ul style="list-style-type: none"> Restart the iPhone. Disconnect the cable from the iPhone, and then connect the iPhone again after a few seconds. Turn the ignition switch to OFF and then to ON. <p>If the error message is still displayed after performing the above action, please contact your dealer or an authorised Pioneer Service Station.</p>

MirrorLink

Message	Cause	Action
The application list could not be read out.	Failed to load the application list.	<ul style="list-style-type: none"> Disconnect the cable from the smartphone, and then connect the smartphone again after a few seconds. Turn the ignition switch to OFF and then to ON. <p>If the error message is still displayed after performing the above action, reset the smartphone.</p> <p>If the error message is still displayed after performing the above action, please contact your dealer or an authorised Pioneer Service Station.</p>
There is no supported application on your MirrorLink device.	No supported applications can be found.	Install MirrorLink compliant applications to your MirrorLink device.
Communication error occurred.	There was a communication error.	<ul style="list-style-type: none"> Disconnect the cable from the smartphone, and then connect the smartphone again after a few seconds. Turn the ignition switch to OFF and then to ON. <p>If the error message is still displayed after performing the above action, reset the smartphone.</p> <p>If the error message is still displayed after performing the above action, please contact your dealer or an authorised Pioneer Service Station.</p>
Launching the application failed.	Failed to launch the application.	Try again.
Failed to display the screen of your device because of irregular resolution.	The image size is too large.	The size of the images transferred from the device exceeds 800 × 480.



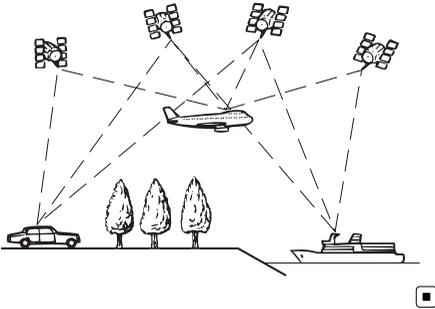
Appendix

Positioning technology

Positioning by GPS

The Global Positioning System (GPS) uses a network of satellites orbiting the Earth. Each of the satellites, which orbit at a height of 21 000 km, continually broadcasts radio signals giving time and position information. This ensures that signals from at least three can be picked up from any open area on the earth's surface.

The accuracy of the GPS information depends on how good the reception is. When the signals are strong and reception is good, GPS can determine latitude, longitude and altitude for accurate positioning in three dimensions. But if signal quality is poor, only two dimensions, latitude and longitude, can be obtained and positioning errors are somewhat greater.



Handling large errors

Positioning errors are kept to a minimum by combining GPS, dead reckoning and map matching. However, in some situations, these functions may not work properly, and the error may become bigger.

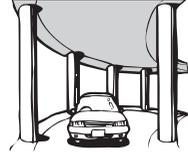
When positioning by GPS is impossible

- GPS positioning is disabled if signals cannot be received from more than two GPS satellites.

- In some driving conditions, signals from GPS satellites may not reach your vehicle. In this case, it is impossible for the system to use GPS positioning.



In tunnels or enclosed parking garages



Under elevated roads or similar structures



When driving among high buildings



When driving through a dense forest or tall trees

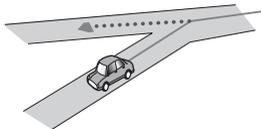
- If a car phone or mobile phone is used near the GPS aerial, GPS reception may be lost temporarily.
- Do not cover the GPS aerial with spray paint or car wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals, so keep the aerial clear.
- ❑ If a GPS signal has not been received for a long time, your vehicle's actual position and the current position mark on the map may diverge considerably or may not be updated. In such case, once GPS reception is restored, accuracy will be recovered.

Conditions likely to cause noticeable positioning errors

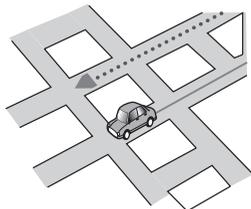
For various reasons, such as the state of the road you are travelling on and the reception status of the GPS signal, the actual position of your vehicle may differ from the position displayed on the map screen.

Appendix

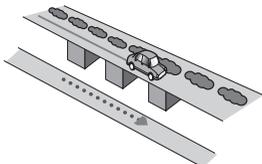
- If you make a slight turn.



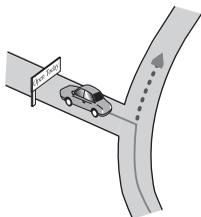
- If there is a parallel road.



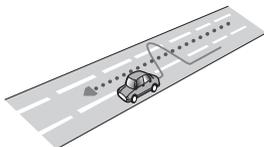
- If there is another road very nearby, such as in the case of an elevated motorway.



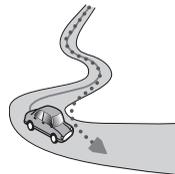
- If you take a recently opened road that is not on the map.



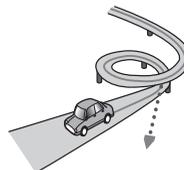
- If you drive in zigzags.



- If the road has a series of hairpin bends.



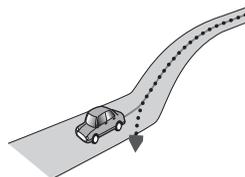
- If there is a loop or similar road configuration.



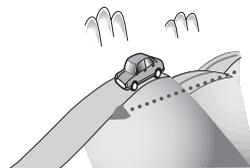
- If you take a ferry.



- If you are driving on a long, straight road or a gently curving road.

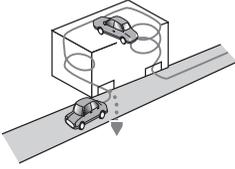


- If you are on a steep mountain road with many height changes.

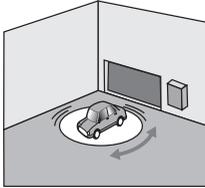


Appendix

- If you enter or exit a multi-storey car park or similar structure using a spiral ramp.



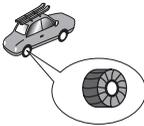
- If your vehicle is turned on a turntable or similar structure.



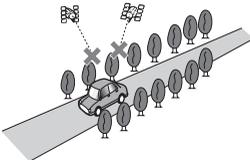
- If your vehicle's wheels spin, such as on a rough track or in snow.



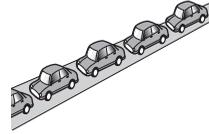
- If you put on chains, or change your tyres for ones with a different size.



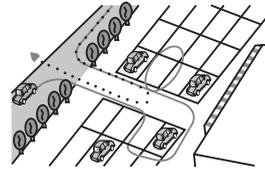
- If trees or other obstacles block the GPS signals for a considerable period.



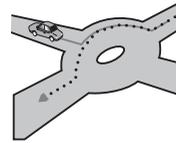
- If you drive very slowly, or in a start-and-stop manner, as in a traffic jam.



- If you join the road after driving around a large car park.



- When you drive around a roundabout.



- When starting driving immediately after starting the engine.

Detailed information for playable media

Compatibility

Notes on USB storage device

- Do not leave the USB storage device in any location with high temperatures.
- Depending on the kind of the USB storage device you use, this product may not recognise the storage device or files may not be played back properly.
- The text information of some audio and video files may not be correctly displayed.
- File extensions must be used properly.

Appendix

- There may be a slight delay when starting playback of files on a USB storage device with complex folder hierarchies.
- Operations may vary depending on the kind of a USB storage device.
- It may not be possible to play some music files from USB because of file characteristics, file format, recorded application, playback environment, storage conditions, and so on.

USB storage device compatibility

- ➔ For details about USB storage device compatibility with this product, refer to Important Information for the User (a separate manual).
- Protocol: bulk
- You cannot connect a USB storage device to this product via a USB hub.
- Partitioned USB storage device is not compatible with this product.
- Firmly secure the USB storage device when driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- There may be a slight delay when starting playback of audio files encoded with image data.
- Some USB storage devices connected to this product may generate noise on the radio.
- Do not connect anything other than the USB storage device.

The sequence of audio files on USB storage device

For USB storage device, the sequence is different from that of USB storage device.

Handling guidelines and supplemental information

- This product is not compatible with the Multi Media Card (MMC).
- Copyright protected files cannot be played back.

Notes specific to DivX files

- Only DivX files downloaded from DivX partner sites are guaranteed for proper operation. Unauthorised DivX files may not operate properly.
- DRM rental files cannot be operated until playing back is started.
- This product corresponds to a DivX file display of up to 1 590 minutes 43 seconds. Search operations beyond this time limit are prohibited.
- DivX VOD file playback requires supplying the ID code of this product to the DivX VOD provider. Regarding the ID code, refer to *Displaying your DivX VOD registration code* on page 101.
- Plays all versions of DivX video, except for DivX 7 with standard playback of DivX media files.
- For more details about DivX, visit the following site:
<http://www.divx.com/>

DivX subtitle files

- Srt format subtitle files with the extension “.srt” can be used.
- Only one subtitle file can be used for each DivX file. Multiple subtitle files cannot be associated.
- Subtitle files that are named with the same character string as the DivX file before the extension are associated with the DivX file. The character strings before the extension must be exactly the same. However, if there is only one DivX file and one subtitle file in a single folder, the files are associated even if the file names are not the same.
- The subtitle file must be stored in the same folder as the DivX file.
- Up to 255 subtitle files may be used. Any more subtitle files will not be recognised.
- Up to 64 characters can be used for the name of the subtitle file, including the extension. If more than 64 characters are used for the file name, the subtitle file may not be recognised.

Appendix

- The character code for the subtitle file should comply with ISO-8859-1. Using characters other than ISO-8859-1 may cause the characters to be displayed incorrectly.
- The subtitles may not be displayed correctly if the displayed characters in the subtitle file include control code.
- For materials that use a high transfer rate, the subtitles and video may not be completely synchronised.
- If multiple subtitles are programmed to display within a very short time frame, such as 0.1 seconds, the subtitles may not be displayed at the correct time.

Appendix

Media compatibility chart

General

Media	USB storage device
File system	FAT32/NTFS
Maximum number of folders	1 500
Maximum number of files	15 000
Playable file types	MP3, WMA, AAC, WAV, FLAC, DivX (including DivX HD), H.264, MPEG4, MPEG2, WMV, FLV, MKV, JPEG
Notes: <ul style="list-style-type: none"> Maximum playback time of audio file stored on a USB storage device: 7.5 h (450 minutes) 	

MP3 compatibility

Media	USB storage device
File extension	.mp2, .mp3, .m2a, .mka
Bit rate	8 kbps to 320 kbps (CBR), VBR
Sampling frequency	8 kHz to 48 kHz
ID3 tag	ID3 tag Ver. 1.0, 1.1, 2.2, 2.3, 2.4
Notes: <ul style="list-style-type: none"> Ver. 2.x of ID3 tag is prioritised when both Ver. 1.x and Ver. 2.x exist. This product is not compatible with the following: MP3i (MP3 interactive), mp3 PRO, m3u playlist 	

Appendix

WMA compatibility

Media	USB storage device
File extension	.wma
Bit rate	5 kbps to 320 kbps (CBR), VBR
Sampling frequency	8 kHz to 48 kHz
Note: This product is not compatible with the following: Windows Media™ Audio 9 Professional, Lossless, Voice	

WAV compatibility

Media	USB storage device
File extension	.wav
Format	Linear PCM (LPCM)
Sampling frequency	16 kHz to 48 kHz
Quantisation bits	8 bits and 16 bits
Note: The sampling frequency shown in the display may be rounded.	

AAC compatibility

Media	USB storage device
File extension	.aac, .adts, .mka, .m4a
Bit rate	8 kbps to 320 kbps (CBR)
Sampling frequency	8 kHz to 48 kHz
Note: This product plays back AAC files encoded by iTunes.	

Appendix

DivX compatibility

Media	USB storage device
File extension	avi/.divx/.mkv
Profile (DivX version)	Home Theatre Ver. 3.11
Compatible audio codec	MP3, Dolby Digital
Bit rate (MP3)	8 kbps to 320 kbps (CBR), VBR
Sampling frequency (MP3)	16 kHz to 48 kHz (32 kHz, 44.1 kHz, 48 kHz for emphasis)
Maximum image size	720 pixels × 576 pixels
Maximum file size	4 GB
Notes: <ul style="list-style-type: none"> • This product is not compatible with the following: DivX Ultra format, DivX files without video data, DivX files encoded with LPCM (Linear PCM) audio codec • If a file contains more than 4 GB, playback stops before the end. • Some special operations may be prohibited because of the composition of DivX files. 	

Appendix

Video files compatibility (USB)

File extension	.avi	.mp4		.m4v	.wmv
Format	MPEG-4	MPEG-4	H.264	MPEG-4	WMV
Compatible video codec	MPEG-4	MPEG-4	H.264	MPEG-4	WMV
Compatible audio codec	Linear PCM (LPCM) MP3	AAC	AAC	AAC	WMA
Maximum resolution	400 pixels x 240 pixels				
Maximum bit rate:	Bit rate: 2.5 Mbps Frame rate: 30 fps	Bit rate: 2.5 Mbps Frame rate: 30 fps	Bit rate: 1.5 Mbps Frame rate: 30 fps	Bit rate: 2.5 Mbps Frame rate: 30 fps	Bit rate: 768 kbps Frame rate: 30 fps
Maximum file size	4 GB				
Maximum playback time	150 minutes				

Common notes

- Files may not be played back properly depending on the environment in which the file was created or on the contents of the file.
- This product may not play back files, depending on the application used to encode the files.
- This product may not operate correctly, depending on the application used to encode WMA files.
- Depending on the version of Windows Media™ Player used to encode WMA files, album names and other text information may not be correctly displayed.
- There may be a slight delay when starting playback of audio files encoded with image data.
- This product is not compatible with packet write data transfer.
- This product can recognise up to 32 characters, beginning with the first character, including extension for the file and folder name. Depending on the display area, this product may try to display them with a reduced font size. However, the maximum

number of the characters that you can display varies according to the width of each character, and of the display area.

- Folder selection sequence or other operations may be altered, depending on the encoding or writing software.

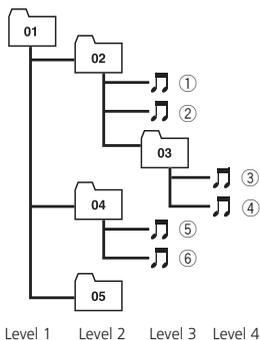
Appendix

Example of a hierarchy

The following figure is an example of the tier structure in the external storage device. The numbers in the figure indicate the order in which folder numbers are assigned and the order to be played back.

📁: Folder

🎵: File



Notes

- This product assigns folder numbers. The user cannot assign folder numbers.
- If there is a folder that does not contain any playable file, the folder itself will display in the folder list but you cannot check any files in the folder. (A blank list will appear.) Also, these folders will be skipped without displaying the folder number.

Appendix

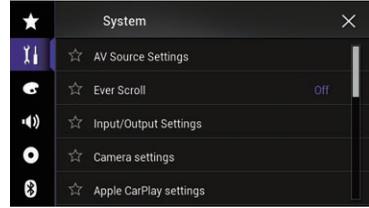
Display information

Phone menu



	Page
Preset Dial	25
Phone Book	23
History	24
Dial	23
Voice recognition function	28

System menu

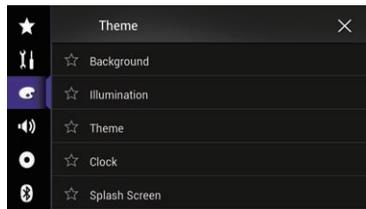


	Page
AV Source Settings	
MIXTRAX Settings	77
Radio Settings	36
Tag Forwarding	78
Bluetooth Audio	39
Ever Scroll	38
Input/Output Settings	39
Camera settings	37
Apple CarPlay settings	38
Demo Mode	39
Safe Mode	104
Smartphone Setup	78
AV Input	30
AUX Input	78
AppRadio Video Adjustment	72
Camera settings	62
Camera View	80
Back Camera Input	80
Camera Polarity	79
Parking Assist Guide	80
Parking Assist Guide Adjust	81
Apple CarPlay settings	
Driving Position	82
Demo Mode	82
Safe Mode	82
Demo Mode	82

Appendix

	Page
System Language	82
Restore Settings	109
Keyboard	83
Beep Tone	83
Picture Adjustment	83
System Information	
Firmware Information	84
Firmware Update	84
Connection Status	85

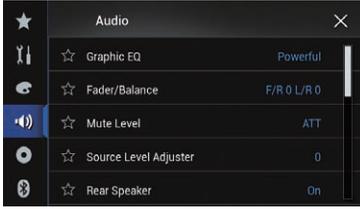
Theme menu



	Page
Background	97
Illumination	98
Theme	98
Clock	99
Splash Screen	99

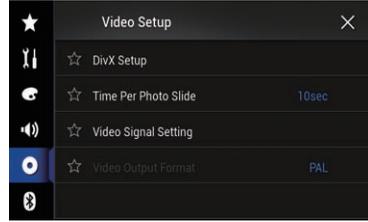
Appendix

Audio menu



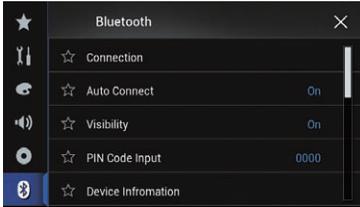
	Page
Graphic EQ	93
Fader/Balance	86
Balance	86
Mute Level	87
Source Level Adjuster	87
Rear Speaker	89
Subwoofer	89
Speaker Level	90
Crossover	89
Subwoofer Settings	89
Listening Position	90
Time Alignment	91
Auto EQ&TA	93
A-EQ&TA Measurement	94

Video Setup menu



	Page
DivX Setup	
DivX® VOD	101
Time Per Photo Slide	51
Video Signal Setting	
AV	75
AUX	73
Camera	101
Video Output Format	102

Bluetooth menu



	Page
Connection	16
Auto Connect	18
Visibility	19
PIN Code Input	19
Device Information	20
Auto Answer	26
Ring Tone	27
Invert Name	27
Bluetooth Memory Clear	20
BT Software Update	20
Bluetooth Version Information	20

Appendix





<http://www.pioneer.eu>

Visit **www.pioneer.co.uk** (or **www.pioneer.eu**) to register your product.

Visitez **www.pioneer.fr** (ou **www.pioneer.eu**) pour enregistrer votre appareil.

Si prega di visitare il sito **www.pioneer.it** (o **www.pioneer.eu**) per registrare il prodotto.

Visite **www.pioneer.es** (o **www.pioneer.eu**) para registrar su producto.

Zum Registrieren Ihres Produktes besuchen Sie bitte **www.pioneer.de** (oder **www.pioneer.eu**).

Bezoek **www.pioneer.nl** (of **www.pioneer.eu**) om uw product te registreren.

Посетите **www.pioneer-rus.ru** (или **www.pioneer.eu**) для регистрации приобретенного Вами изделия.

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