English

Français

Upgrade Instructions and Operation Manual Addendum
Instructions de mise à jour et Addenda au manuel de fonctionnement

2012 NAVIGATION UPGRADE SDHC CARD
Carte SDHC 2012 POUR MISE À NIVEAU DE NAVIGATION

T1000-19326

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This upgrade SDHC card can be used for the following models ;
AVIC-U310BT

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AVIC-U310BT

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English

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Please read through these operating instructions so you will know how to operate your model properly.

Important

- The screens shown in the examples may differ from actual screens.
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- Read the entire manual before upgrading the program of your navigation system.
- This package is unique, and cannot be installed on more than one unit.
- Web-connected computer is required for online issuance of password.

Failure to operate

- Should the navigation system fail to operate properly, contact your dealer or nearest authorized Pioneer Service Station.
- Do not lose the supplied Media Number Card (MEDIA NUMBER CARD). If the Media Number Card is lost, reissue of the Media Number (MEDIA NUMBER) is not possible. Also you must submit the Media Number Card when repairs are needed. The card is necessary as proof of authenticity if service is required (including recovery).

After-sales service for Pioneer products

Please contact the dealer or distributor from which you purchased the product for after-sales service (including warranty conditions) or any other information. In case the necessary information is not available, please contact the companies listed below.

Please do not ship your product to the companies at the addresses listed below for repair without making advance contact.

- **U.S.A**
  Pioneer Electronics (USA) Inc.
  CUSTOMER SUPPORT DIVISION
  P.O. Box 1760 Long Beach, CA 90801-1760
  800-421-1404
- **CANADA**
  Pioneer Electronics of Canada, Inc.
  CUSTOMER SATISFACTION DEPARTMENT
  340 Ferrier Street, Unit 2, Markham, Ontario
  L3R 2Z5, Canada
  1-877-283-5901
  905-479-4411

For warranty information, please see the Limited Warranty sheet included with your product.

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http://www.pioneerelectronics.com
In Canada
http://www.pioneerelectronics.ca

1 Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
2 Receive updates on the latest products and technologies.
3 Download owner's manuals, order product catalogs, research new products, and much more.
4 Receive notices of software upgrades and software updates.

SD memory card

- ❒ Keep the SD memory card out of the reach of small children to prevent them from accidentally swallowing it.
- ❒ Do not store the SD memory card in high temperatures or direct sunlight.
- ❒ Do not subject the SD memory card to shock or impact.
- ❒ Do not allow the SD memory card to come into contact with liquids. Damage to the SD memory card and your products could result from contact with liquids.
- ❒ Be careful not to touch terminals on the SD memory card. Doing so may cause connection failures. If any terminals are dirty, wipe them with a clean dry cloth.

- ❒ SDHC Logo is a trademark of SD-3C, LLC.■

Models to be upgraded

This package can upgrade the software program and database of the following models:
AVIC-U310BT■

Manual overview

Procedures and information described in this manual are the upgraded and latest content. For both users who upgrade for the first time, and who have upgraded your navigation system, refer to the procedures and information of this manual.
The operations and information other than those described in this manual are basically the same as those at the time you purchased the hardware.
For the following descriptions, refer to Operation Manual of the purchased hardware.

- Hardware description
- Explanation of other non-operation information

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 the screen, you will find the necessary page from the *Display information* at the end of the manual.

Changing to the NAVTEQ map database

The display of roads, street names, the background texture of the map, and POI categories will change depending on locations or the map scale after upgrading.

Setting items to be deleted and initialized by upgrade

The following data and settings will be cleared and reset to default values. Other items will be retained. However, some items are not listed because the setting can be easily recovered by users, such as the last cursor position on the map screen.

Route setting
Current route

Map function
Setting of "**Overlay POI**"

The user data stored in the internal memory of the unit may be erased if an unexpected error occurs during software installation. Pioneer is not responsible for any data loss or unavailability of user data.

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 your navigation system are described in **ALL CAPITAL**, **BOLD** lettering:
  e.g.)
  MODE button, **SRC/OFF** button.
- Menu items, screen titles, and functional components are described in **bold** with double quotation marks " ":
  e.g.)
  "**Navigation Menu**" screen or
  "**Audio Menu**" screen
- Touch panel keys that are available on the screen are described in **bold** in brackets []:
  e.g.)
  [**Address**], [**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.)
  ■ Touch [**OK**].
- References are indicated like this:
  e.g.)
  ➲ For details, refer to *Displaying the route overview* on page 45.

Terms used in this manual

"USB storage device"

The term for USB memory only is "USB storage device".

"SD memory card"

The SD memory card and SDHC memory card are collectively referred to as the "SD memory card". ■

iPod compatibility

The upgraded version of AVIC-U310BT using T1000-19326 supports the following iPod models and iPod software versions. Others may not work correctly.
Made for

- iPod touch (4th generation): iOS 4.3.1
- iPod touch (3rd generation): iOS 4.1
- iPod touch (2nd generation): iOS 3.1.1
- iPod touch (1st generation): iOS 3.1.2
- iPod classic 120GB: Ver. 2.0.1
- iPod classic 160GB (2009): Ver. 2.0.3
- iPod classic 80GB: Ver. 1.1.2
- iPod classic 160GB (2007): Ver. 1.1.2
- iPod with video: Ver. 1.3
- iPod nano (6th generation): Ver. 1.1
- iPod nano (5th generation): Ver. 1.0.1
- iPod nano (4th generation): Ver. 1.0.4
- iPod nano (3rd generation): Ver. 1.1.3
- iPod nano (2nd generation): Ver. 1.1.3
- iPod nano (1st generation): Ver. 1.3.1
- iPhone 4: iOS 4.3.1
- iPhone 3GS: iOS 4.3.1
- iPhone 3G: iOS 4.3.1
- iPhone: iOS 2.2

❒ In this manual, iPod and iPhone will be referred to as iPod.
❒ Operation methods may vary depending on the iPod models and the software version of iPod.
❒ Depending on the software version of the iPod, it may not be compatible with this equipment. ■

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➲ For more information, refer to the Operation Manual of your navigation system.

■

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About the data for the map database

- Modifications related to roads, streets/highways, terrain, construction and other things before/during the development period may not be reflected in this database. Inevitably, those modifications after that period are not reflected in this database.
- Regardless of existing and newly-built things, the data may be different from the actual condition.
- For details about the map coverage of this navigation system, refer to the information on our website.
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The navigation system upgrade process

1 Check the device number of your navigation system.
➲ For details of the operation, refer to *Checking the device number* on this page.

⬇

2 Get the password for authentication.
➲ For details, refer to *Getting the password for authentication* on the next page.

⬇

3 Upgrade the software program of your navigation system.
➲ For details of the operation, refer to *Upgrading the software program and the map database* on the next page.

⬇

4 Check whether the upgrade was done properly.
➲ For details of the operation, refer to *Checking whether the upgrade was done properly* on page 22.

⬇

5 Update the Bluetooth firmware.
➲ For details of the operation, refer to *Updating the Bluetooth wireless technology software* on page 22.

■

Preparation for upgrade

Checking the device number

For users upgrading the hardware for the first time

First, check your device number (DEVICE NUMBER, displayed such as Device # or Device Number) of your navigation system for later procedures. To display the device number, do the following.

1 Touch [Menu] on the map screen.
The "**Navigation Menu**" screen appears.

2 Touch [Settings].
The "**Settings Menu**" screen appears.

3 Touch [Service Info].
The "**Service Information Screen**" screen appears.

4 Write down your device number (Device Number) onto the supplied Media Number Card (MEDIA NUMBER CARD) to avoid mistakes.
❒ Also write down "**Version**" information which would be used to confirm completion of the update.

For users who have previously upgraded the hardware

First, check your device number (DEVICE NUMBER, displayed such as Device # or Device Number) of your navigation system for later procedures. To display the device number, do the following.

1 Touch [Home] on the map screen.
The "**Top Menu**" screen appears.

2 Touch [Settings].
The "**Settings Menu**" screen appears.

3 Touch [Service Info].
The "**Service Information Screen**" screen appears.

4 Write down your device number (Device Number) onto the supplied Media Number Card (MEDIA NUMBER CARD) to avoid mistakes.

❒ Also write down "**Version**" information which would be used to confirm completion of the update.

Getting the password for authentication

For upgrade, a unique password issued online is necessary. Access the website with your PC and get your password.
The following information is required.

- Media Number (MEDIA NUMBER) printed on supplied Media Number Card (MEDIA NUMBER CARD)
- Device Number (DEVICE NUMBER) of your navigation system

❒ If you don't have the web-connected computer for the online issuance of password, please contact your Authorized Pioneer Electronics retailer or call the companies listed at "*After-sales service for Pioneer products* on page 12".

1 Access on the following website to issue your password.
http://www.pioneernavigationupdate.com
In Canada:
http://www.pioneernavigationupdate.ca
For issuing the password, follow the instruction on the website.

2 Record the password that you received.
You need to input this password accurately. Write down your password to avoid mistakes. ■

Upgrade procedures

NEVER stop the engine of your vehicle or turn off the power supply to the navigation system until the installation is completed. Turning the power off during upgrade process causes a malfunction or failure of the navigation system.

Upgrading the software program and the map database

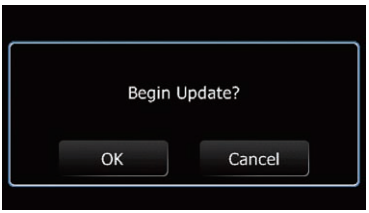
This section describes the upgrade procedures for your navigation system.

❒ The upgrade takes approximately 20 minutes in total.

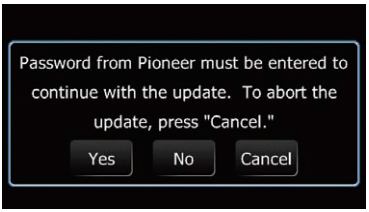
1 Park your vehicle in a safe place and apply the parking brake.

2 Insert the upgrade SD memory card into the SD card slot.
The message confirming whether or not to start the update will appear.

3 Touch [OK].



4 Touch [Yes].

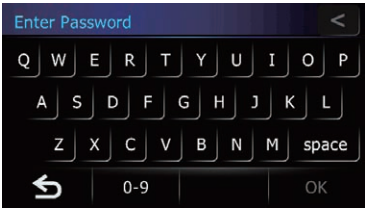


After a short pause, the keyboard for entering the password will appear.

▪ Touch [**No**].
Shows the device number (Device #) of your navigation system.

▪ Touch [**Cancel**].
Cancels the update.

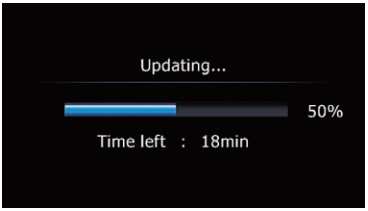
5 Enter the password for authentication that you obtained, then touch [OK].



A message confirming whether to restart the navigation system appears.

6 Touch [OK].
The navigation system restarts and then the installation begins.

7 Wait until the upgrade process is complete.



After the installation is complete, the navigation system restarts.

Checking whether the upgrade was done properly

Display "**Service Information Screen**" screen to compare the current version number with the previous one.

1 Touch [Home] on the map screen.
The "**Top Menu**" screen appears.
➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Settings].
The "**Settings Menu**" screen appears.

3 Touch [Service Info].

4 Check the version information.

Updating the Bluetooth wireless technology software

Access the Pioneer website to check your phone's compatibility. If your phone is on the list and you wish to update, manually update the Bluetooth firmware after the automatic upgrade is finished.
http://www.pioneerelectronics.com
In Canada
http://www.pioneerelectronics.ca

❒ Registered phones that are listed on the "**Connection List**" screen are cleared by the software update.

1 Insert the upgrade SD memory card into the SD card slot.

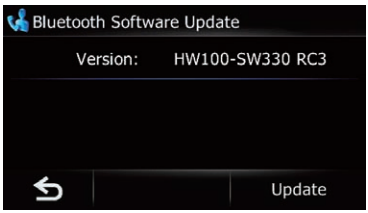
2 Touch [Home] on the map screen.
The "**Top Menu**" screen appears.

3 Touch [Phone].
The "**Phone Menu**" screen appears.

4 Touch [Setting].
The "**Bluetooth Settings**" screen appears.

5 Touch [Bluetooth Software Update].
The current version is displayed.

6 Touch [Update].



A message confirming whether to start updating the software appears.

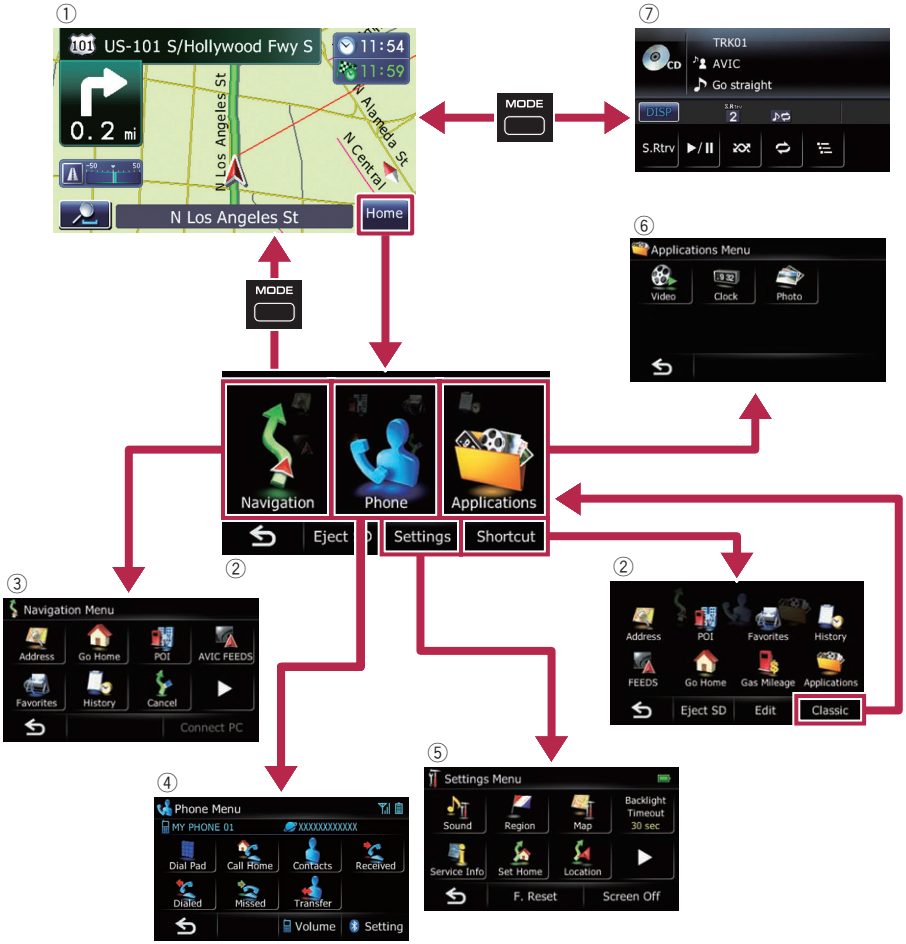
7 Touch [Yes].
Update starts.

8 Wait until the upgrade process is complete.
A message will appear after the update is complete.

9 Touch [OK].
Update is completed. ■

Instructions for upgrading

Screen switching overview



What you can do on each menu

① **Map screen**
You can use this screen to check the current vehicle position information and route to the destination.

② **Top Menu**
Touch [**Home**] on the map screen to display the "**Top Menu**" screen.
This is the starting menu to access the desired screens and operate the various functions.
There are two types of the "**Top Menu**" screen.

Classic Menu

Shortcut Menu

❒ In this manual, Classic Menu will be referred to as "**Top Menu**".

③ **"Navigation Menu" screen**
You can search for your destination on this menu. You can also check or cancel your set route from this menu.
Other features include useful functions to support your navigation.

④ **"Phone Menu" screen**
You can access the screen that is related to hands-free phoning to see call histories and change the settings on the Bluetooth wireless technology connection.

⑤ **"Settings Menu" screen**
You can access the screen to customize settings.

⑥ **"Applications Menu" screen**
You can launch applications downloaded to an SD memory card via the utility program AVIC FEEDS.

⑦ **Audio operation screen**
This is the screen that normally appears when you play the audio source. ■

Shortcut Menu

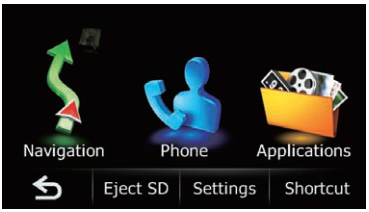
Registering your favorite menu items in shortcuts allows you to quickly jump to the registered menu screen by a simple touch on the Shortcut Menu screen.

Selecting the shortcut

❒ Up to 8 menu items can be registered in shortcuts.

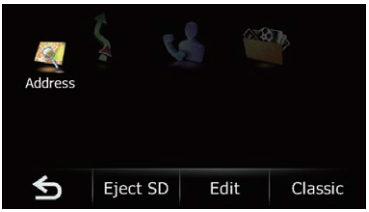
1 Touch [Home] on the map screen.
The "**Top Menu**" screen appears.

2 Touch [Shortcut].

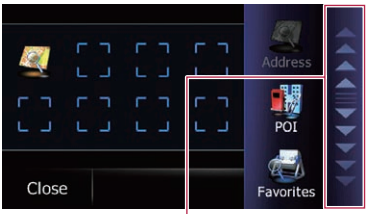


❒ When you use the navigation system for the first time or no items are set on shortcut, a message will appear. Touch [**Yes**] to start the shortcut selection.

3 Touch [Edit].

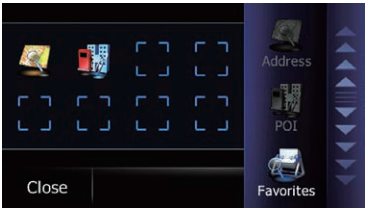


4 Touch the tab on the right edge or scroll the bar to display the icon that you want to set to shortcut.



5 Touch and hold the icon that you want to add to shortcut.

6 Move the icon to the left side of the screen, and then release it.
The selected item is added to shortcut.



7 To finish the selection, touch [Close].

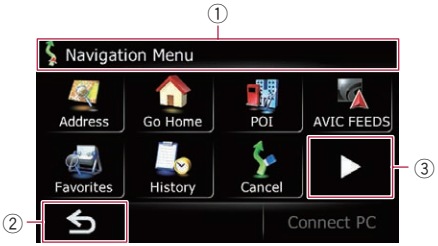
Removing a shortcut

1 Touch and hold the icon of the shortcut you want to remove.

2 Move the icon to the right side of the screen, and then release it.

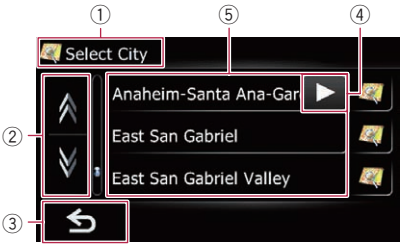
3 To finish the selection, touch [Close].

Operating menu screens (e.g. "Navigation Menu" screen)



① **Screen title**
② The previous screen returns.
③ Shows the next or previous page.

Operating list screens (e.g. city list)



① **Screen title**
② Touching ▲ or ▼ on the scroll bar scrolls through the list and allows you to view the remaining items.
③ The previous screen returns.
④ If all of the characters cannot be displayed within the displayed area, touching the key to the right of the item allows you to see remaining characters.
⑤ **Listed items**
Touching an item on the list allows you to narrow down the options and proceed to the next operation.

Operating the on-screen keyboard

① **Text box**
Displays the characters that are entered. If there is no text in the box, an informative guide with text appears.

② **Keyboard**
Touch the keys to enter the characters.

③
The previous screen returns.

④ **0-9**, **Sym.**, **Others**
You can enter other characters of alphabet. You can also enter text with marks such as [&] or numbers.
Touch to toggle the selection.
❒ Even if you use any of "**A**", "**Ä**", "**Å**", "**Æ**", the displayed result is the same.

⑤ **OK**
Confirms the entry and allows you to proceed to the next step.

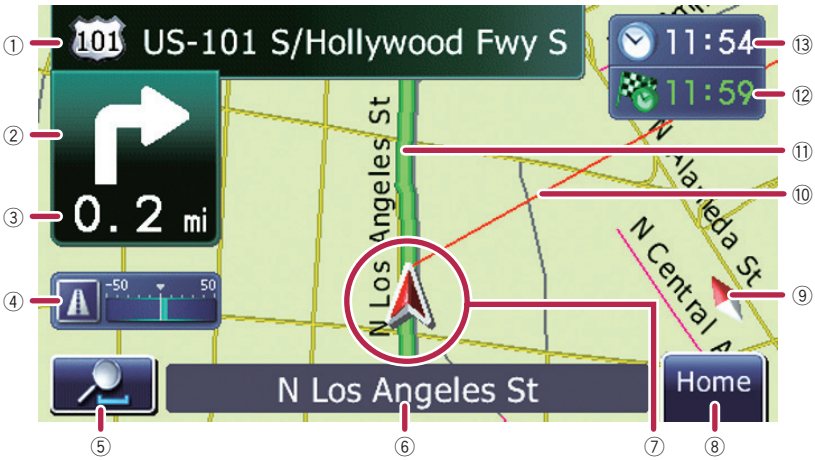
⑥
Deletes the input text one letter at a time, beginning at the end of the text. Continuing to touch the key deletes all of the text.

❒ You can select the type of keyboard to be used for inputting characters.
➲ For details, refer to *Setting the keyboard layout* on page 113.

Most of the information provided by your navigation system can be seen on the map. You need to become familiar with how the information appears on the map.

How to read the map screen

This example shows an example of a 2D map screen.



❒ Information with an asterisk (*) appears only when the route is set.
❒ Depending on the conditions and settings, some items may not be displayed.

① **Name of the street to be used (or next guidance point)***
Touching this item enables you to hear the next guidance again.

② **Next direction of travel***
When you approach a guidance point, this appears in green. Touching this item enables you to hear the next guidance again.

③ **Distance to the guidance point***
Shows the distance to the next guidance point.

④ **Eco-Meter**
Displays a graph comparing the past average fuel mileage and the average fuel mileage since the navigation system was last started. Touching this item displays the "**Eco Graph**" screen.
➲ For details, refer to *Checking the eco-friendly driving status* on page 33.

⑤ **Map control**
Touching displays touch panel keys for changing the map scale and the map orientation.

⑥ **Street name (or city name) that your vehicle is traveling along**
➲ For details, refer to *Setting the current street name display* on page 117.

⑦ **Current position**
Indicates the current location of your vehicle. The apex of the triangular mark indicates your orientation and the display moves automatically as you drive.
❒ The apex of the triangular mark is the proper current position of the vehicle.

⑧ **Home key**
Touch [**Home**] on the map screen to display the "**Top Menu**" screen.
➲ For details of the operations, refer to *Screen switching overview* on page 24.

⑨ **Map orientation indicator**
- When "North up" is selected, N is displayed.
- When "Heading up" is selected, is displayed.

❒ The red arrow indicates north.
➲ For details, refer to *Switching the map orientation* on the next page.

⑩ **Direction line***
The direction towards your destination (next waypoint, or the position of a cursor) is indicated with a straight line.

⑪ **Current route***
The route currently set is highlighted in color on the map. If a waypoint is set on the route, the route after the next waypoint is highlighted in another color.

⑫ **Multi-Info window**
Each touch of Multi-Info window changes the display information as follows.
- **Distance to the destination (or distance to waypoint)***
- **Estimated time of arrival at your destination or waypoint***
  The estimated time of arrival is an ideal value calculated based on the value set for "**Speed**" and the actual driving speed. The estimated time of arrival is only a reference value, and does not guarantee arrival at that time.
- **Travel time to your destination or waypoint***

⑬ **Current time**

Meaning of guidance flags

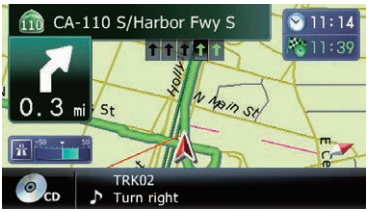
Destination
The checkered flag indicates your destination.

Waypoint
The blue flags indicate your waypoints.

Guidance point
The next guidance point (next turning point, etc.) is shown by a yellow flag.

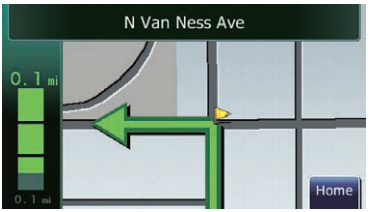
Audio information bar

If you do any operation for the audio source, the audio information bar appears on the bottom of the map screen. The bar informs you the status of audio source.



Enlarged map of the intersection

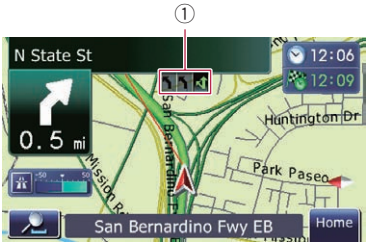
When "**Close Up View**" in the "**Map**" screen is "**On**", an enlarged map of the intersection appears.



➲ For details, refer to *Setting the auto-zoom display* on page 116.

Display during freeway driving

In certain locations of the freeway, lane information is available. The map indicates the recommended lane to be in to easily maneuver the next guidance.



While driving on the freeway, freeway exit numbers and freeway signs may be displayed in the vicinity of interchanges and exits.

① **Lane information**
② **Freeway exit information**
Displays the freeway exit.
③ **Freeway signs**
These show the road number and give directional information.

❒ If the data for these items is not contained in the built-in memory, the information is not available even if there are the signs on the actual road.

Types of the road stored in the map database

Roads included in the route guidance

Turn by turn routable roads contain full attribute data and can be used for full route guidance. Pioneer navigation will display full route guidance, including turn-by-turn voice directions and arrow icons.

Roads without turn-by-turn instructions

Routable roads (the route displayed and highlighted in violet) have only basic data and can only be used to plot a navigable route. Pioneer Navigation will only display a navigable route on the map (only the arrival guidance for the destination or a waypoint is available). Please review and obey all local traffic rules along the highlighted route for your safety.
No turn-by-turn directions will be displayed on these roads.

Non routable roads (pink color road)

Map display is possible, but it cannot be used for route calculation. Please review and obey all local traffic rules along this route. (For your safety.)

Operating the map screen

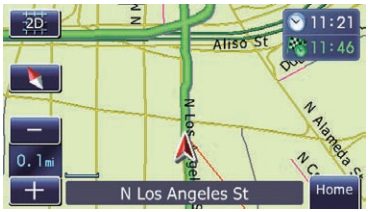
Changing the scale of the map

You can change the map scale between 25 yard and 1 000 miles (25 meters and 2 000 kilometers).

1 Display the map screen.

2 Touch on the map screen.

and with the map scale appear.



3 Touch or to change the map scale.

❒ If you do not operate the function for a few seconds, the initial map screen automatically returns.

Switching the map orientation

You can switch how the map shows your vehicle's direction between "Heading up" and "North up".

- Heading up:
  The map display always shows the vehicle's direction as proceeding toward the top of the screen.
- North up:
  The map display always has north at the top of the screen.

❒ The map orientation is fixed at "North up" when the map scale is 25 miles (50 kilometers) or more.

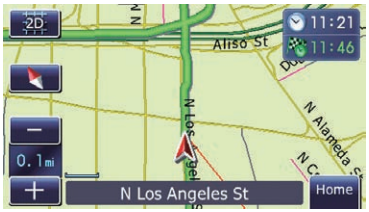
❒ The map orientation is fixed at "Heading up" when the 3D map screen is displayed.

1 Display the map screen.

2 Touch on the map screen.

or appears.

- When "North up" is selected, is displayed.
- When "Heading up" is selected, is displayed.



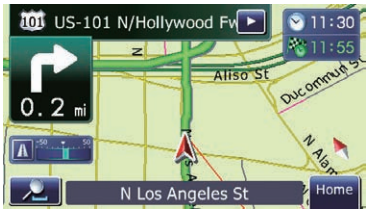
3 Touch or to switch the vehicle's direction.

Each time you touch the key changes the setting.

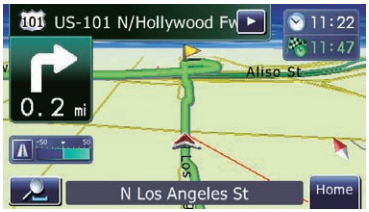
- If you do not operate the function for a few seconds, the initial map screen automatically returns.

Switching the map between 2D and 3D

2D map screen



3D map screen

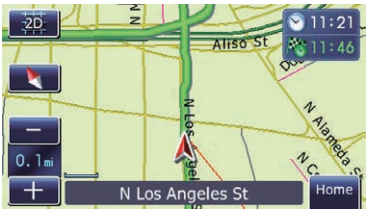


1 Display the map screen.

2 Touch on the map screen.

or appears.

- When the 2D map screen is selected, is displayed.
- When the 3D map screen is selected, is displayed.



3 Touch or .

Each time you touch the key changes the setting.

- If you do not operate the function for a few seconds, the initial map screen automatically returns.

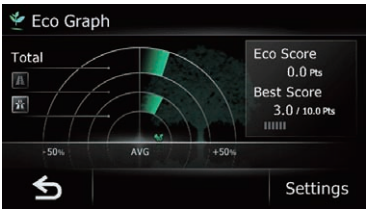
Checking the eco-friendly driving status

"**Eco Graph**" shows the results of a comparison of past average mileage and current average mileage.

1 Display the map screen.

2 Touch on the map screen.

The "**Eco Graph**" screen appears.



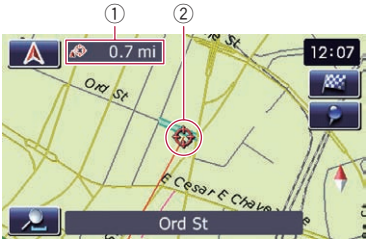
- Touch or press the **MODE** button to move from the "**Eco Graph**" screen to the map screen.

➲ For details, refer to Chapter 7.

Scrolling the map to the position you want to see

1 Display the map screen.

2 Touch and drag the map in the desired direction to scroll.



① Distance from the current position
② Cursor

Positioning the cursor to the desired location results displaying in a brief informational overview about the location at the bottom of screen, with the street name and other information for this location. (The information shown varies depending on the position.)

❒ The scrolling increment depends on your dragging length.

▪ Touch .

The map returns to the current position.

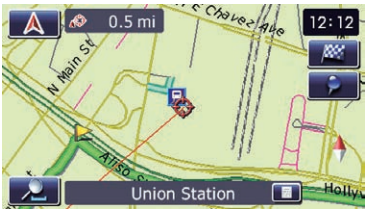
❒ Pressing **MODE** button returns the map to the current position.

Viewing information about a specified location

An icon appears at registered places (home location, specific places, **Favorites** entries) and places where there is a POI icon. Place the scroll cursor over the icon to view detailed information.

1 Scroll the map and move the scroll cursor to the icon you want to view.

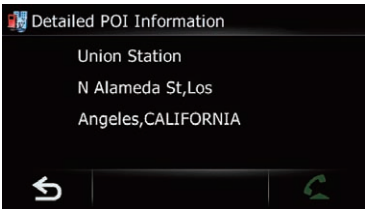
2 Touch .



The "**Information List**" screen appears.

3 Touch the item that you want to check the detailed information.

Information for a specified location appears.



The information shown varies according to the location. (There may be no information for that location.)

➲ For details, refer to *Setting the "**Favorites**" icon display* on page 116.

➲ For details, refer to *Displaying POI on the map* on page 113.

❒ Touching enables you to call the position if a telephone number is available. (Pairing with cellular phone featuring Bluetooth wireless technology is required.)

➲ For details, refer to *Dialing from the map* on page 62.

Eco-friendly driving functions

This navigation system is equipped with eco-friendly driving functions that can be used to estimate whether you are driving in an environmentally friendly way.
This chapter describes this function.

- The fuel mileage calculated is based on a theoretical value determined from vehicle speed and position information from the navigation system. The fuel mileage displayed is only a reference value, and does not guarantee the mileage displayed can be obtained.
- The eco-friendly driving functions are an estimate of the real time fuel consumption to average fuel consumption ratio and is not an actual value.
- The eco-friendly driving functions and calculations take into consideration the location of the GPS position and speed of the vehicle in determining a value.

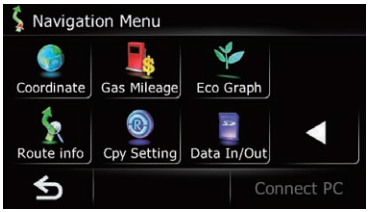
Checking the eco-friendly driving status

This function estimates approximate fuel mileage based on your driving, compares that with your average fuel mileage in the past, and displays the results in a graph.

1 Touch [Home] on the map screen and then touch [Navigation].

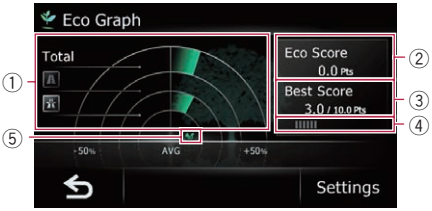
➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Eco Graph].



❒ You can also touch on the map screen to display the "**Eco Graph**".

Reading the screen



① **Average fuel mileage comparison graph**
Displays a comparison of the average fuel mileage up to the point the navigation system was last stopped (past average fuel mileage) and the current average fuel mileage. The display is updated every 3 seconds. The more the value moves in the direction of **+**, the better the fuel mileage.
There are three different graph bars.

- **Total**
  A comparison of the past average fuel mileage and the average fuel mileage of the current drive.
- : **Ordinary Road**
  A comparison of the past average fuel mileage and the average fuel mileage for 90 seconds in the past, while the vehicle is driving on an ordinary road.
- : **Freeway**
  A comparison of the past average fuel mileage and the average fuel mileage for 90 seconds in the past, while the vehicle is driving on a freeway.

② **Eco Score**
The result of the comparison of your past average fuel mileage and current average fuel mileage appears as a value from **0.0 Pts** (points) to **10.0 Pts**. The higher the value, the better the fuel mileage when compared to past route guidance.

❒ This is not displayed when "**Eco Score**" is set to "**Off**" or when no route is set.

③ **Best Score**
Displays the best score to date.

❒ This is not displayed when "**Eco Score**" is set to "**Off**" or when no route is set.

④ **Eco-gauge**
The green gauge indicates the current score, and the gray gauge indicates the best score to date.

The "**Eco Score**" is updated every 5 minutes.
❒ This is not displayed when "**Eco Score**" is set to "**Off**" or when no route is set.

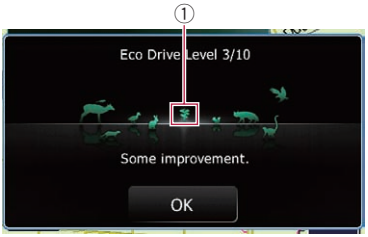
⑤ **Animal icons**
The number of displayed animal icons increases or decreases according to the value of "**Eco Score**".

❒ Even if you use the "**Eco Graph**" function immediately after you start using the navigation system for the first time, ▩ may be displayed and the function may not be available.
➲ For details, refer to *Troubleshooting* on page 131.

❒ The display settings can be changed.
➲ For details, refer to *Changing the eco-function setting* on this page.

Displaying Eco Drive Level guidance

This navigation system is equipped with the "**Eco Drive Level**" function that estimates how well you have driven in an environmentally friendly way.
The points of "**Eco Drive Level**" change according to "**Eco Score**" when the vehicle reaches the destination. When a certain number of points is reached, the level increases and a message appears.



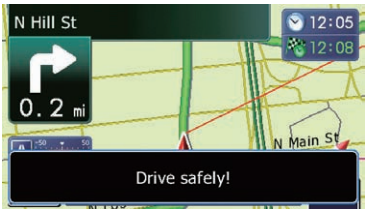
① **Tree icon**
As the level increases, a tree icon changes from a young tree to a big tree.

❒ This is not displayed when "**Eco Drive Level**" is set to "**Off**".

➲ For details, refer to *Changing the eco-function setting* on this page.

Sudden start alert

If the speed of the vehicle exceeds 25.5 mph (41 km/h) within 5 seconds from the time it is started, a message appears and a warning sound beeps.



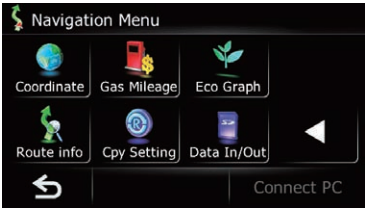
➲ For details, refer to *Changing the eco-function setting* on this page.

Changing the eco-function setting

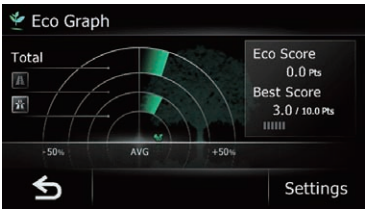
You can change the eco-function setting.

1 Touch [Home] on the map screen and then touch [Navigation].
➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Eco Graph].



3 Touch [Settings].



The "**Eco Settings**" screen appears.

4 Touch the desired option.

Eco Score

- **On** (default):
  Displays "**Eco Score**".
- **Off**:
  Hides "**Eco Score**".

➲ For details, refer to *Checking the eco-friendly driving status* on page 33.

Eco Drive Level

- **On** (default):
  After you arrive the destination, a message appears and a beep sounds if the level of "**Eco Drive Level**" have increased or decreased.
- **Off**:
  No message appears and no sound beeps when the vehicle reaches the destination.

➲ For details, refer to *Displaying Eco Drive Level guidance* on the previous page.

Rapid Start Warning

- **On**:
  A message appears and a sound beeps when the vehicle experiences a sudden start.
- **Off** (default):
  No message appears and no sound beeps when the vehicle experiences a sudden start.

Clear Record

Fuel consumption data are cleared.

5 Touch [OK].

The settings are complete.

CAUTION

For safety reasons, these route-setting functions are not available while your vehicle is in motion. To enable these functions, you must stop in a safe place and put on the parking brake before setting your route.

- Some information regarding traffic regulations depends on the time when the route calculation is performed. Thus, the information may not correspond with a certain traffic regulation when your vehicle actually passes through the location in question. Also, the information on the traffic regulations provided will be for a passenger vehicle, and not for a truck or other delivery vehicles. Always follow the actual traffic regulations when driving.

The basic flow of creating your route

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

⬇

2 Display the "**Top Menu**" screen.
➲ For details of the operations, refer to *Screen switching overview* on page 24.

⬇

3 Select the method of searching for your destination.

⬇

4 Enter the information about your destination to calculate route.

⬇

5 Confirm the location on the map.
➲ For details, refer to *Setting a route to your destination* on page 44.

⬇

6 The navigation system calculates the route to your destination, and then shows the route on the map.

⬇

7 Check and decide the route.
➲ For details, refer to *Setting a route to your destination* on page 44.

⬇

8 Your navigation system sets the route to your destination, and the map of your surroundings appears.

⬇

9 Release the parking brake, drive in accordance with navigation guidance.

Searching for a location by address

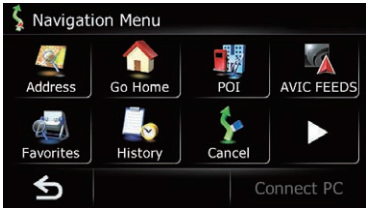
The most frequently used function is "**Address**", in which the address is specified and the location is searched.

- ❒ Depending on the search results, some steps may be skipped.
- ❒ When you enter characters, the system will automatically search the database for all possible options. Only the characters you enter are active.
- ❒ If the search candidates number reaches 20 or less, the screen automatically changes to the search result screen.

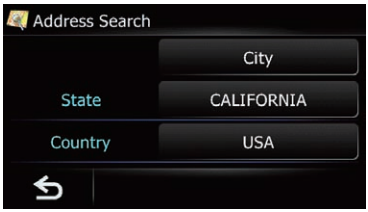
1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

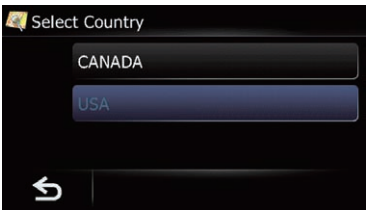
2 Touch [Address].



3 Touch the key next to "Country" to display the country list.



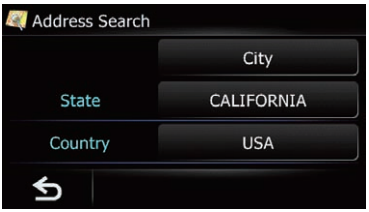
4 Touch one of the items on the list to set the country as search area.



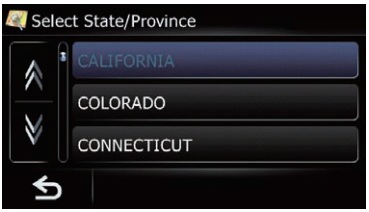
The screen returns to the previous screen.

- ❒ Once the country has been selected, you only have to change countries when the location is outside of the country you selected.

5 Touch the key next to "State".



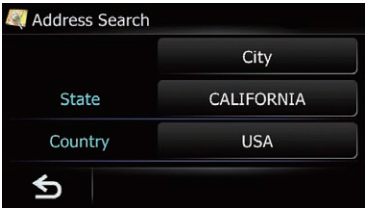
6 Touch one of the items on the list to set it as search area.



The screen returns to the previous screen.

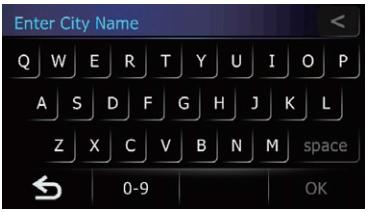
- ❒ Once the state, province, or territory has been selected, you only have to change states, provinces, or territories when your destination is outside of the state, province, or territory you selected.

7 Touch [City].



The "**Enter City Name**" screen appears.

8 Enter the city name and then touch [OK].



The "**Select City**" screen appears.

9 Touch the desired city name.

The "**Enter Street Name**" screen appears.

- Touch .

The representative location of the city appears on the map screen.

10 Enter the street name and then touch [OK].

The "**Select Street**" screen appears.

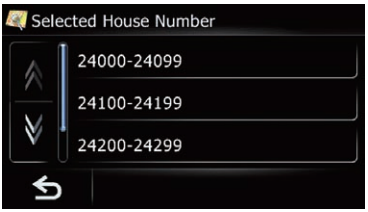
11 Touch the street you want.

The "**House#**" screen appears.

12 Enter the house number and then touch [OK].

The "**Selected House Number**" screen appears.

13 Touch the desired house number range.



The searched location appears on the map screen.

➲ For the subsequent operations, refer to *Setting a route to your destination* on page 44.

Setting up a route to your home

If your home location is stored, the route to your home can be calculated by touching a single key.

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Go Home].

❒ If you have not registered your home location, a message appears. Touch [**Register**] to start registration.

➲ For details, refer to *Registering and editing your home* on page 51.

Searching for Points of Interest (POI)

Information about various facilities (Points Of Interest – POI), such as gas stations, parking lots or restaurants, is available. You can search for a POI by selecting the category (or entering the POI Name).

Searching for a POI directly from the name of the facilities

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

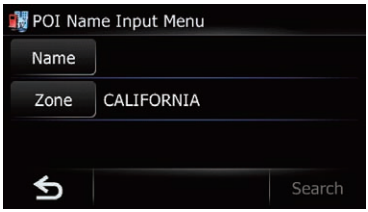
2 Touch [POI].

The "**POI Search**" screen appears.

3 Touch [Spell Name].

The "**POI Name Input Menu**" screen appears.

4 Touch [Zone].



The "**State/Province Selection**" screen appears.

If the destination is in another country, touch [**Country**] to change the country setting when the "**State/Province Selection**" screen is displayed.

❒ Once the country has been selected, you only have to change countries when the location that you want to search for is outside of the country you selected.

5 Touch one of the items on the list to set the country as search area.

The "**POI Name Input Menu**" screen returns.

6 Touch [Name].

The "**POI Name**" screen appears.

7 Enter the POI name and then touch [OK].

The "**POI Name Input Menu**" screen returns.

8 Touch [Search].

The "**POI List**" screen appears.

9 Touch the POI you want.

The searched location appears on the map screen.

■ Touch [**Sort**].

Each time you touch [**Sort**] changes the sort order.

❒ Current order is indicated on the upper right of the screen.

- : Sorts the items in the list alphabetically.
- : Sorts the items in the list in order by distance from the vehicle position.

➲ For the subsequent operations, refer to *Setting a route to your destination* on page 44.

Searching for a nearby POI

You can search for POIs in your surroundings.

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [POI].

The "**POI Search**" screen appears.

3 Touch [Near Me].

POIs are divided into several categories.

4 Touch the category you want.

❒ If there are more detailed categories within the selected category, repeat this step as many times as necessary.

The "**POI List**" screen appears.

5 Touch the POI you want.

The searched location appears on the map screen.

➲ For the subsequent operations, refer to *Setting a route to your destination* on page 44.

Searching for POIs around the destination

❒ This function is available when the route is set.

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [POI].

The "**POI Search**" screen appears.

3 Touch [Near Dest.].

POIs are divided into several categories.

4 Touch the category you want.

❒ If there are more detailed categories within the selected category, repeat this step as many times as necessary.

The "**POI List**" screen appears.

5 Touch the POI you want.

The searched location appears on the map screen.

➲ For the subsequent operations, refer to *Setting a route to your destination* on page 44.

Searching for POIs around the city

You can search for POIs around a specified city.

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

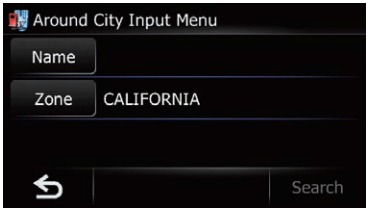
2 Touch [POI].

The "**POI Search**" screen appears.

3 Touch [Around City].

The "**Around City Input Menu**" screen appears.

4 Touch [Zone].



The "**State/Province Selection**" screen appears.

If the destination is in another country, touch [**Country**] to change the country setting when the "**State/Province Selection**" screen is displayed.

❒ Once the country has been selected, you only have to change countries when the location that you want to search for is outside of the country you selected.

5 Touch [Name].

The "**Enter City Name**" screen appears.

6 Enter the city name and then touch [OK].

The "**Around City Input Menu**" screen returns.

7 Touch [Search].

The "**Select City**" screen appears.

8 Touch the desired city name.

POIs are divided into several categories.

■ Touch .
The representative location of the city appears on the map screen.

9 Touch the category you want.

❒ If there are more detailed categories within the selected category, repeat this step as many times as necessary.

10 Touch the POI you want.
The searched location appears on the map screen.

➲ For the subsequent operations, refer to *Setting a route to your destination* on page 44.

Selecting destination from "Favorites"

Storing locations you visit frequently saves time and effort.
Selecting an item from the list provides an easy way to specify the position.

❒ This function is not available if no locations have been registered in "**Favorites**".

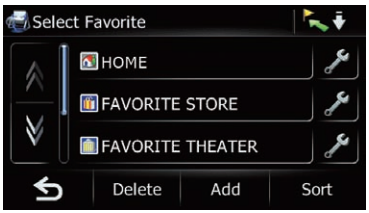
➲ For details, refer to *Storing favorite locations* on page 49.

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Favorites].
The "**Select Favorite**" screen appears.

3 Touch the entry you want.



The searched location appears on the map screen.

➲ For the subsequent operations, refer to *Setting a route to your destination* on page 44.

Searching for POIs by using the data on the SD memory card

Creating a customized POI is possible by using the utility program AVIC FEEDS which is available separately, on your PC. (AVIC FEEDS will be available on our website.) Storing the customized POI properly and inserting the SD memory card enables the system to use the data for searches.

1 Use the utility program AVIC FEEDS to store customized POI data to an SD memory card.

2 Insert an SD memory card into the SD card slot.

3 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

4 Touch [AVIC FEEDS].
The "**Select List**" screen appears.

5 Touch the item you want.
The "**Select POI**" screen appears.

6 Touch the POI you want.
The searched location appears on the map screen.

➲ For the subsequent operations, refer to *Setting a route to your destination* on page 44.

Selecting a location you searched for recently

The places that you have set as destination or waypoint in the past are automatically stored in "**History**".

❒ The location is also stored when you touch [**Scroll**] in the location confirmation screen.
❒ If no location is stored in Destination History, you cannot select [**History**]. (If you perform a route calculation, you can select [**History**].)
❒ "**History**" can store up to 100 locations. If the entries reach the maximum, the new entry overwrites the oldest one.

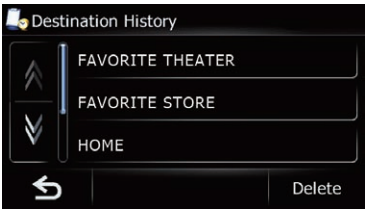
1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [History].

The "**Destination History**" screen appears.

3 Touch the entry you want.



The searched location appears on the map screen.

➲ For the subsequent operations, refer to *Setting a route to your destination* on page 44.

Searching for a location by coordinates

Entering a latitude and longitude pinpoints the location.

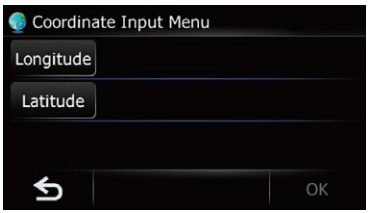
1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Coordinate].

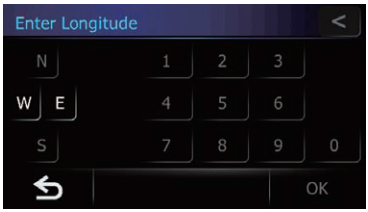
The "**Coordinate Input Menu**" screen appears.

3 Touch [Longitude].



The "**Enter Longitude**" screen appears.

4 Enter the longitude, and then touch [OK].



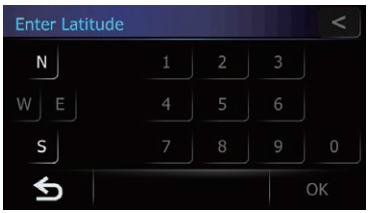
The screen returns to the previous screen.

❒ To enter W 50°1'2.5" for example, touch [**W**], [0], [5], [0], [0], [1], [0], [2], and [5].

5 Touch [Latitude].

The "**Enter Latitude**" screen appears.

6 Enter the latitude, and then touch [OK].



The screen returns to the previous screen.

❒ To enter N 5°1'2.5" for example, touch [**N**], [0], [5], [0], [1], [0], [2], and [5].

7 Touch [OK].

The searched location appears on the map screen.

➲ For details, refer to *Setting a route to your destination* on page 44.

Searching for a location by scrolling the map

Specifying a location after scrolling the map enables you to set the position as destination, waypoint.

1 Display the map screen.

2 Touch and drag the screen to scroll the map to the position you want.

3 Touch .

➲ For details, refer to *Setting a route to your destination* on the next page.

Setting a route to your destination

1 Search for a location.

➲ For details, refer to Chapter 8.
After searching for the destination, the Location confirmation screen appears.

2 Touch [OK].

Location confirmation screen

The destination is set, and then route calculation starts.
When the route calculation is completed, Route confirmation screen appears.

❒ If you press the **MODE** button during route calculation, the calculation is canceled and the map screen appears.

■ Touch [**Scroll**].

The map display changes to the scroll mode. You can fine-tune the location in the scroll mode, and then you can set the location as your destination or do various operations.

■ Touch [**Waypoint**].

The location is added to the "**Waypoints List**" screen.

❒ If a destination is not set, [**Waypoint**] is not available.

3 Touch [OK].

Route confirmation screen

The displayed route is set as your route, and the route guidance starts.

① Distance to the destination
② Travel time to your destination
③ Estimated fuel cost to your destination
➲ For details, refer to *Inputting the fuel consumption information for calculating the fuel cost* on page 69.
④ Route calculation condition

■ Touch .

The message confirming whether to cancel the calculated route appears.
Touch [**Yes**] to cancel the calculated route, and then the map screen appears.

① **Options**
➲ For details, refer to *Modifying the route calculation conditions* on the next page.

② **Profile**
➲ For details, refer to *Checking the current itinerary* on page 46.

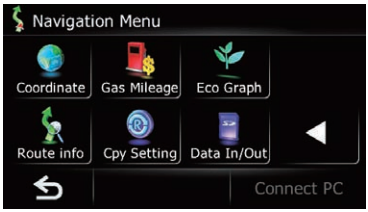
③ **Waypoints**
➲ For details, refer to *Editing waypoints* on page 46.

Displaying the route overview

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Route info].



① **Options**

➲ For details, refer to *Modifying the route calculation conditions* on this page.

② **Profile**

➲ For details, refer to *Checking the current itinerary* on the next page.

③ **Waypoints**

➲ For details, refer to *Editing waypoints* on the next page.

❒ "**Route info**" is active only when the route is set.

3 Touch [OK].

Modifying the route calculation conditions

You can modify the conditions for route calculation and recalculate the current route.

1 Display the "Route info" screen.

➲ For details, refer to *Displaying the route overview* on this page.

2 Touch [Options].

The "**Route Options**" screen appears.

3 Touch the desired items to change the route calculation conditions and then touch [OK].

The route is recalculated, and the Route confirmation screen appears.

Items that users can operate

Settings marked with an asterisk (*) show that these are default or factory settings.

Route Condition

This setting controls how the route should be calculated by taking into account the time, distance or main road.

Determines which condition takes priority for route calculation.

Fast*:

Calculates a route with the shortest travel time to your destination as a priority.

Short:

Calculates a route with the shortest distance to your destination as a priority.

Major:

Calculates a route that passes major arterial roads as a priority.

Avoid Toll Road

This setting controls whether toll roads (including toll areas) should be taken into account.

Off*:

Calculates a route that may include toll roads (including toll areas).

On:

Calculates a route that avoids toll roads (including toll areas).

❒ The system may calculate a route that includes toll roads even if "**On**" is selected.

Avoid Ferry

This setting controls whether ferry crossings should be taken into account.

Off*:

Calculates a route that may include ferries.

On:

Calculates a route that avoids ferries.

❒ The system may calculate a route that includes ferries even if "**On**" is selected.

Avoid Freeway

This setting controls whether freeways may be included in the route calculation.

Off*:

Calculates a route that may include freeways.

On:

Calculates a route that avoids freeways.

❒ The system may calculate a route that includes freeways even if "**On**" is selected.

Time restrictions

This setting controls whether streets or bridges that have traffic restrictions during a certain time should be taken into account.

❒ If you want to set your route to avoid raised draw bridges, select "**On**".

On*:

Calculates a route while avoiding streets or bridges with traffic restrictions during a certain time.

Off:

Calculates a route while ignoring traffic restrictions.

❒ The system may calculate a route that includes streets or bridges that are subject to traffic restrictions during a certain time even if "**On**" is selected.

CAUTION

If the time difference is not set correctly, the navigation system cannot consider traffic regulations correctly. Set the time difference correctly.

➲ For details, refer to *Setting the time difference* on page 112.

Checking the current itinerary

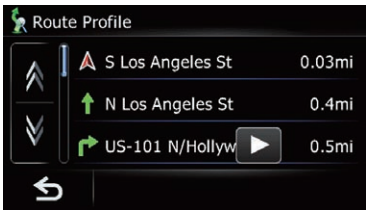
You can check the route details.

1 Display the "Route info" screen.

➲ For details, refer to *Displaying the route overview* on the previous page.

2 Touch [Profile].

The "**Route Profile**" screen appears.



Editing waypoints

You can edit waypoints (locations you want to visit on the way to your destination) and recalculate the route so that it passes through these locations.

Adding a waypoint

Up to 5 waypoints can be set, and waypoints and final destination can be sorted automatically or manually.

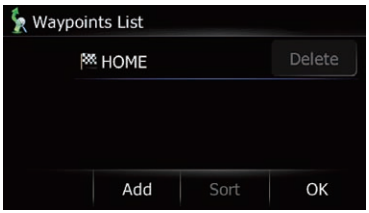
1 Display the "Route info" screen.

➲ For details, refer to *Displaying the route overview* on the previous page.

2 Touch [Waypoints].

The "**Waypoints List**" screen appears.

3 Touch [Add].

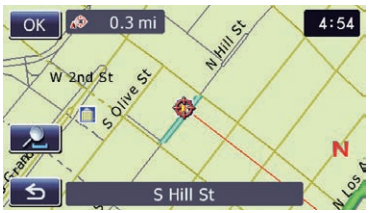


The "**Select Search method**" screen appears.

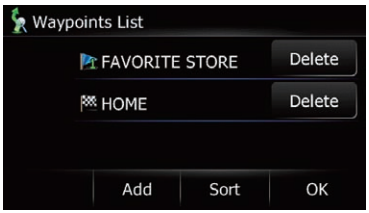
4 Search for a location.

➲ For details, refer to Chapter 8.

5 Touch [OK].



6 Touch [OK] on the "Waypoints List" screen.



The route is recalculated, and the Route confirmation screen appears.

Deleting a waypoint

You can delete waypoints from the route and then recalculate the route. (You can delete successive waypoints.)

1 Display the "Route info" screen.

➲ For details, refer to *Displaying the route overview* on page 45.

2 Touch [Waypoints].

The "**Waypoints List**" screen appears.

3 Touch [Delete] next to the waypoint that you want to delete.

The touched waypoint will be deleted from the list.

4 Touch [OK] on the "Waypoints List" screen.

The route is recalculated, and the Route confirmation screen appears.

5 Touch [OK].

The map of the current position appears.

Sorting waypoints

You can sort waypoints and recalculate the route.

❒ You cannot sort waypoints that you have already passed.

1 Display the "Route info" screen.

➲ For details, refer to *Displaying the route overview* on page 45.

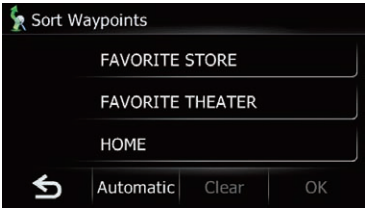
2 Touch [Waypoints].

The "**Waypoints List**" screen appears.

3 Touch [Sort].

The "**Sort Waypoints**" screen appears.

4 Touch the waypoint or destination.



Put them in the desired order.

- Touch [**Automatic**].

You can sort the destination and waypoints automatically. The system will show the nearest waypoint (distance in a straight line) from the current location as waypoint 1, and sort the other points (including your destination) in order of distance from the waypoint 1.

- Touch [**Clear**].

Waypoint sort is canceled.

5 Touch [OK].

The "**Waypoints List**" screen appears.

6 Touch [OK] on the "Waypoints List" screen.

The route is recalculated, and the Route confirmation screen appears.

7 Touch [OK].

The map of the current position appears.■

Canceling the route guidance

If you no longer need to travel to your destination, follow the steps below to cancel the route guidance.

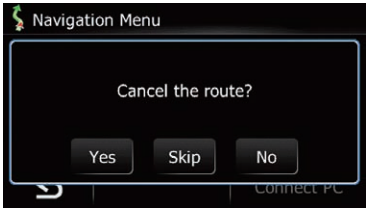
1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Cancel].

A message confirming the cancellation of the current route appears.

3 Touch [Yes].



The current route is deleted, and a map of your surroundings reappears.

- Touch [**Skip**].

The next waypoint along the route is skipped. A new route to your destination through all remaining waypoints, except for the skipped waypoint, is calculated.

When the route calculation is completed, Route confirmation screen appears.

❒ [**Skip**] is available only when a waypoint is set.

- Touch [**No**].

The previous screen returns without deleting the route.■

Storing favorite locations

Storing your favorite locations as "**Favorites**" provides you with the opportunity to save the time and effort of re-entering this information. Stored items can be made available on "**Favorites**" later.

Registering a location by "Favorites"

Favorites can store up to 400 registered locations. These can include your home location, favorite places, and destinations you have already registered.

- ❒ "**Favorites**" can store up to 400 locations.
- ❒ Home location is counted as one of the items in "**Favorites**".

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Favorites].

The "**Select Favorite**" screen appears.

3 Touch [Add].

The "**Select Search method**" screen appears.

4 Search for a location.

➲ For details, refer to Chapter 8.

5 When the map of the location you want to register is displayed, touch [OK].

The location is registered, and then the "**Edit Favorite**" screen appears.

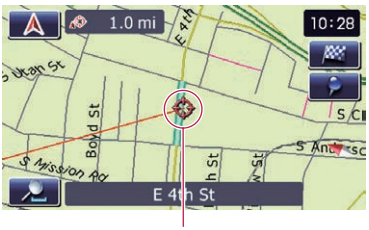
➲ For details, refer to *Editing the favorite location in the list* on this page.

6 Touch [OK].

The registration is complete.

Registering a location by scroll mode

1 Touch and drag the screen to scroll the map to the position that you want to register.



Cursor

2 Touch .

The location is registered, and then the "**Edit Favorite**" screen appears.

➲ For details, refer to *Editing the favorite location in the list* on this page.

3 Touch [OK].

The registration is complete.

Editing registered locations

Editing the favorite location in the list

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

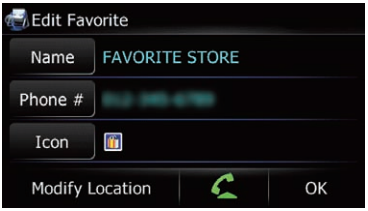
2 Touch [Favorites].

The "**Select Favorite**" screen appears.

3 Touch next to the location that you want to edit.

The "**Edit Favorite**" screen appears.

4 Touch the item that you want to change the setting.



❒ Up to 17 characters can be input for the name.

- Touch [**Name**].

You can enter the desired name.

- Touch [**Phone #**].

You can edit the registered phone number. To dial the number, touch .

The maximum digits you can enter for the phone number is 15.

❒ Touching enables you to call the position if a telephone number is available. (Pairing with cellular phone featuring Bluetooth wireless technology is required.)

➲ For details, refer to *Dialing from the map* on page 62.

- Touch [**Icon**].

You can change the symbol displayed on the map and "**Favorites**".

- Touch [**Modify Location**].

You can change the registered location by scrolling the map.

5 Touch [OK].

The registration is complete.

Editing your home

1 Touch [Home] on the map screen and then touch [Navigation].

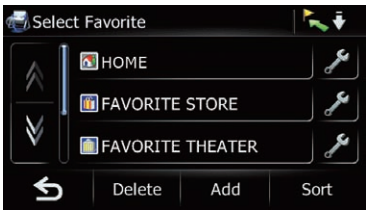
➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Favorites].

The "**Select Favorite**" screen appears.

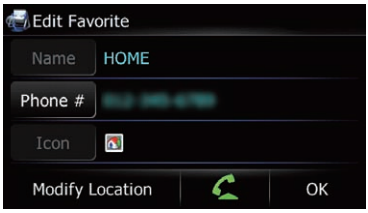
❒ Home location is displayed on the top of the list.

3 Touch next to the home location.



The "**Edit Favorite**" screen appears.

4 Touch the item that you want to change the setting.



- Touch [**Phone #**].

You can edit the registered phone number. To dial the number, touch .

❒ Touching enables you to call the position if a telephone number is available. (Pairing with cellular phone featuring Bluetooth wireless technology is required.)

➲ For details, refer to *Dialing from the map* on page 62.

- Touch [**Modify Location**].

You can change the registered location by scrolling the map.

❒ For home information, [**Name**] and [**Icon**] are not editable.

5 Touch [OK].

The registration is complete.

Sorting the favorite locations in the list

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Favorites].
The "**Select Favorite**" screen appears.

3 Touch [Sort].
Each time you touch [**Sort**] changes the sort order.

❒ Current order is indicated on the upper right of the screen.

- : Sorts the items in the list in order of the recently used items.
- : Sorts the items in the list alphabetically.
- : Sorts the items in the list in order by distance from the vehicle position.

Deleting a favorite location from the list

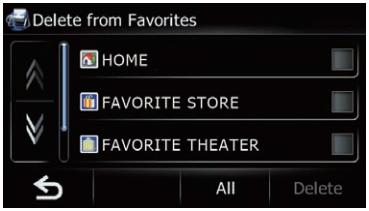
1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Favorites].
The "**Select Favorite**" screen appears.

3 Touch [Delete].
The "**Delete from Favorites**" screen appears.

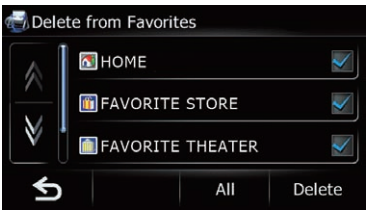
4 Select the location you want to delete.



A check mark appears next to the selected location.

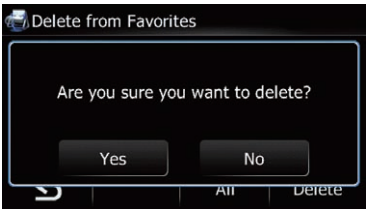
■ Touch [**All**] or [**None**].
Selects or deselects all entries.

5 Touch [Delete].



A message will appear asking you to confirm the deletion.

6 Touch [Yes].



The data you selected is deleted.

■ Touch [**No**].
Cancels the deletion.

Registering and editing your home

Registering your home position saves time and effort. Also, routes to home positions can be calculated easily with a single touch of the key from the "**Navigation Menu**". The registered home position can also be modified later.

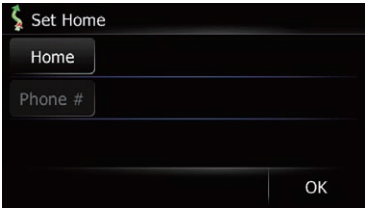
Registering your home

1 Touch [Home] on the map screen.
The "**Top Menu**" screen appears.

2 Touch [Settings].
The "**Settings Menu**" screen appears.

3 Touch [Set Home].
The "**Set Home**" screen appears.

4 Touch [Home].



The "**Select Search method**" screen appears.

5 Search for a location.
After searching for a point, display it on a map, then touch [**OK**].
The location is registered, and then the "**Set Home**" screen appears.

➲ For details, refer to Chapter 8.

6 Touch [Phone #].
You can register your home phone number.

7 Touch [OK].
The registration is complete.

Editing your home

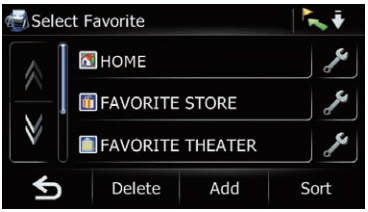
1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Favorites].
The "**Select Favorite**" screen appears.

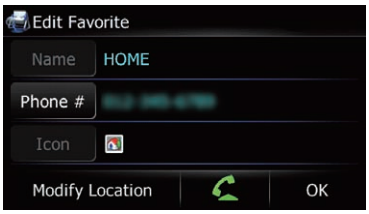
❒ Home location is displayed on the top of the list.

3 Touch next to the home location.



The "**Edit Favorite**" screen appears.

4 Touch the item that you want to change the setting.



- Touch [**Phone #**].

You can edit the registered phone number. To dial the number, touch .

❒ Touching enables you to call the position if a telephone number is available. (Pairing with cellular phone featuring Bluetooth wireless technology is required.)

➲ For details, refer to *Dialing from the map* on page 62.

- Touch [**Modify Location**].

You can change the registered location by scrolling the map.

❒ For home information, [**Name**] and [**Icon**] are not editable.

5 Touch [OK].
The registration is complete. ■

Deleting the destination history from the list

Items in "**History**" can be deleted. All entries in "**History**" can be deleted at once.

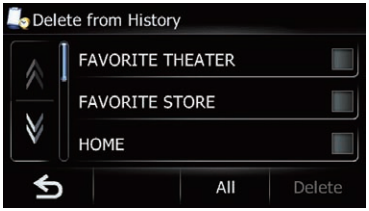
1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [History].
The "**Destination History**" screen appears.

3 Touch [Delete].
The "**Delete from History**" screen appears.

4 Select the location you want to delete.

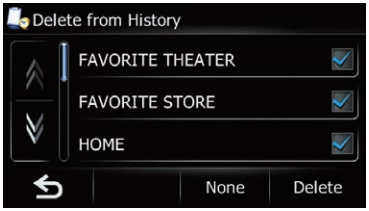


A check mark appears next to the selected location.

- Touch [**All**] or [**None**].

Selects or deselects all entries.

5 Touch [Delete].



A message will appear asking you to confirm the deletion.

6 Touch [Yes].

The data you selected is deleted.

- Touch [**No**].

Cancels the deletion.

Exporting and importing favorite locations

Exporting favorite locations

You can export the "**Favorites**" data to an SD memory card for editing by using the utility program AVIC FEEDS which is available separately, on your PC.

- The utility program AVIC FEEDS is available from our website. For details, refer to the information on our website.
- If there is previous data in the SD memory card, the data is overwritten with new data.

1 Insert an SD memory card into the SD card slot.

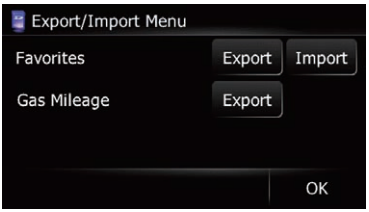
2 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

3 Touch [Data In/Out].

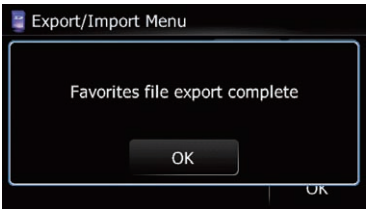
The "**Export/Import Menu**" screen appears.

4 Touch [Export] next to "Favorites".



Data export starts.

After the data is exported, the completion message appears.



5 Touch [OK].

The "**Navigation Menu**" screen appears.

Importing the "Favorites" items edited on AVIC FEEDS

You can import the locations that you have edited on the utility program AVIC FEEDS to "**Favorites**".

- When a location that is already registered in "**Favorites**" is imported, the location is overwritten.
- The utility program AVIC FEEDS is available from our website. For details, refer to the information on our website.

1 Store the item into the SD memory card by using the AVIC FEEDS.

2 Insert an SD memory card into the SD card slot.

3 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

4 Touch [Data In/Out].

The "**Export/Import Menu**" screen appears.

5 Touch [Import] next to "Favorites".

The following message appears.

6 Touch [Yes].

Data import starts.

After the data is imported, the "**Navigation Menu**" screen appears.

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

If your cellular phone features Bluetooth technology, this navigation system can be connected to your cellular phone wirelessly. Using this hands-free function, you can operate the navigation system to make or receive phone calls. You can also transfer the phone book data stored in your cellular phone to the navigation system. This section describes how to set up a Bluetooth connection and how to operate a cellular phone featuring Bluetooth technology on the navigation system.

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

Preparing communication devices

This navigation system has a built-in function to use cellular phones featuring Bluetooth wireless technology.
While your cellular phone featuring Bluetooth wireless technology is connected, the Bluetooth connection status indicator lights.

➲ For details, refer to *Notes for hands-free phoning* on page 68.

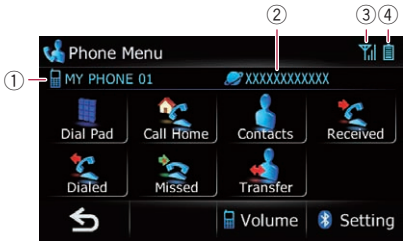
❒ When the navigation system is turned off, the Bluetooth connection is also disconnected. When the system restarts, the system automatically attempts to reconnect the previously connected cellular phone. Even when the connection is severed for some reason, the system automatically reconnects the specified cellular phone (except when the connection is severed due to cellular phone operation). ■

Displaying the phone menu

Use the "**Phone Menu**" if you connect the cellular phone to the navigation system for utilization.

1 Touch [Home] on the map screen.
The "**Top Menu**" screen appears.

2 Touch [Phone].
The "**Phone Menu**" screen appears.



① Name of connected cellular phone
② Network name of the cellular phone company
③ Reception status of the cellular phone
④ Battery status of the cellular phone ■

Registering your cellular phone

You need to register your cellular phone featuring Bluetooth wireless technology when you connect it for the first time. A total of 3 phones can be registered. Three registration methods are available:

- Searching for nearby phones
- Pairing from your cellular phone
- Searching for a specified phone

❒ The default device name displayed on the cellular phone is "**PIONEER NAVI**". The PIN code is "**1111**".

Searching for nearby phones

The system searches for available cellular phones near the navigation system, displays them in a list, and registers them for connection.

1 Activate the Bluetooth wireless technology on your cellular phone.

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

2 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on the previous page.

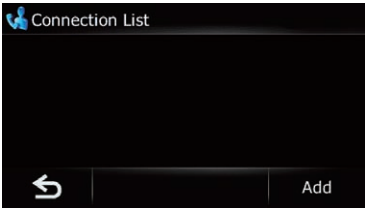
3 Touch [Setting] on the "Phone Menu" screen.

The "**Bluetooth Settings**" screen appears.

4 Touch [Connections].

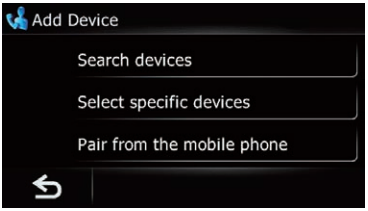
The "**Connection List**" screen appears.

5 Touch [Add].



The "**Add Device**" screen appears.

6 Touch [Search devices].



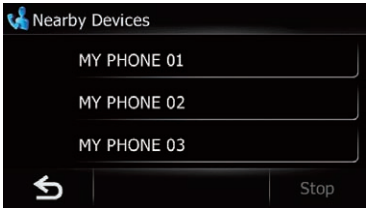
The "**Nearby Devices**" screen appears.
The system searches for cellular phones featuring Bluetooth technology that are ready for the connection and displays them in the list if the device has been found.

❒ Up to 15 cellular phones will be listed in the order that the cellular phone is found.

7 Wait until your cellular phone appears in the list.

❒ If you cannot find the cellular phone you want to connect, check that the cellular phone is ready for the Bluetooth wireless technology connection.

8 Touch the cellular phone name you want to register.



A message prompting you to enter a PIN code appears.

9 Enter the PIN code "1111" using the cellular phone.

When a connection is successfully established, a connection complete message appears. The screen returns to the "**Bluetooth Settings**" screen by touching [**OK**].

Pairing from your cellular phone

You can register the cellular phone by setting the navigation system to standby mode and requesting connection from the cellular phone.

1 Activate the Bluetooth wireless technology on your cellular phone.

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

2 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

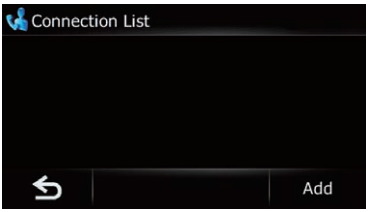
3 Touch [Setting] on the "Phone Menu" screen.

The "**Bluetooth Settings**" screen appears.

4 Touch [Connections].

The "**Connection List**" screen appears.

5 Touch [Add].



The "**Add Device**" screen appears.

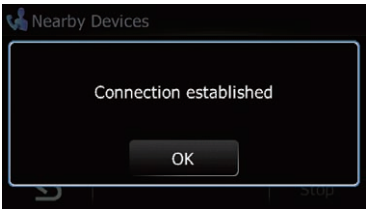
6 Touch [Pair from the mobile phone].

The navigation system waits for a Bluetooth wireless technology connection.

7 Register the navigation system on your cellular phone.

If your cellular phone asks you to enter a password, enter the PIN code (password) of the navigation system.

After the registration is completed, the following screen appears.



❒ If registration fails, repeat the procedure from the beginning.

8 Touch [OK].

Searching for a specified phone

If you cannot connect your phone using "**Search devices**" and "**Pair from the mobile phone**", try this method if your phone is found in the list.

1 Activate the Bluetooth wireless technology on your cellular phone.
For some cellular phones, no specific action is necessary to activate Bluetooth wireless technology. For details, refer to the instruction manual of your cellular phone.

2 Display the "Phone Menu" screen.
➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

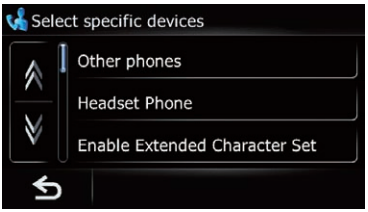
3 Touch [Setting] on the "Phone Menu" screen.
The "**Bluetooth Settings**" screen appears.

4 Touch [Connections].
The "**Connection List**" screen appears.

5 Touch [Add].
The "**Add Device**" screen appears.

6 Touch [Select specific devices].
The "**Select specific devices**" screen appears.

7 Touch the model name of the cellular phone to be connected.



The system searches for cellular phones featuring Bluetooth technology that are ready for the connection and displays them in the list if the device has been found.

❒ If you cannot find the desired model name on the list, touch [**Other phones**] to search the cellular phones available nearby.

8 Wait until your cellular phone appears in the list.

❒ If you cannot find the cellular phone you want to connect, check that the cellular phone is ready for the Bluetooth wireless technology connection.

9 Touch the cellular phone name you want to register.
A message prompting you to enter a PIN code appears.

10 Enter the PIN code "1111" using the cellular phone.
When a connection is successfully established, a connection complete message appears. The screen returns to the "**Bluetooth Settings**" screen by touching [**OK**].

Deleting a registered phone

If you no longer need to use a registered phone with the navigation system, you can delete it from the registration assignment to free this spot up for another phone.

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

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

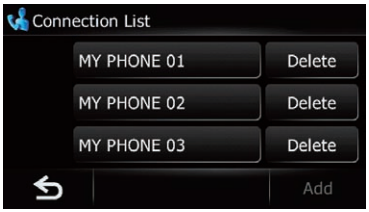
2 Touch [Setting].

The "**Bluetooth Settings**" screen appears.

3 Touch [Connections].

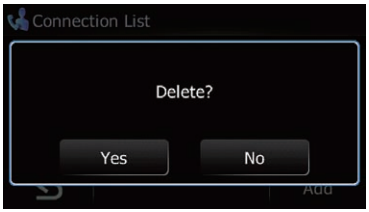
The "**Connection List**" screen appears.

4 Touch [Delete] next to the cellular phone name.



A message prompting you to delete a registered device appears.

5 Touch [Yes].



The device is deleted.

■ Touch [**No**].

Cancels the deletion.

Connecting and disconnecting a registered cellular phone

Connecting a registered cellular phone

The navigation system automatically connects the cellular phone selected as the target of connection. However, connect the cellular phone manually in the following cases:

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

If you start connection manually, carry out the following procedure. You can also connect the phone by having the navigation system detect it automatically.

➲ For details, refer to *Setting automatic connection* on page 66.

1 Activate the Bluetooth wireless technology on your cellular phone.

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

2 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

3 Touch [Setting].

The "**Bluetooth Settings**" screen appears.

4 Touch [Connections].

The "**Connection List**" screen appears.

5 Touch the name of the cellular phone that you want to connect.

Connection starts.
When a connection is successfully established, a connection complete message appears. The screen returns to the "**Bluetooth Settings**" screen by touching [**OK**].

- ❒ To cancel the connection to your cellular phone, touch [**Cancel**].
- ❒ If connection fails, check whether your cellular phone is ready for a connection and then retry.

Disconnecting a cellular phone

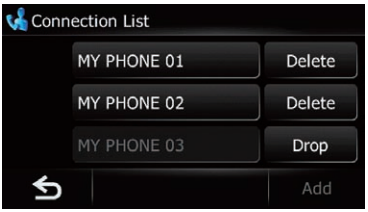
1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Setting].
The "**Bluetooth Settings**" screen appears.

3 Touch [Connections].
The "**Connection List**" screen appears.

4 Touch [Drop] next to the cellular phone name.



■

Making a phone call

You can make a phone call in many different ways.

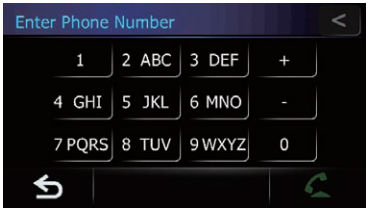
Direct dialing

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Dial Pad].
The "**Enter Phone Number**" screen appears.

3 Touch the number keys to enter the phone number.



The phone number that was input is displayed.
And is activated.

- Touch .

The input number is deleted a digit at a time from the end of the number. Continuing to press this deletes all of the digits.

- Touch .

The previous screen returns.

4 Touch to make a call.

- ❒ To cancel the call after the system starts dialing, touch .

5 Touch to end the call.

Making a call home easily

You can call home without taking the time to enter the phone number if the phone number has been registered.

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Call Home].

Dialing home starts.

❒ If you have not registered your home number, a message appears. Touch [**Register**] to start registration.

➲ For details, refer to *Registering and editing your home* on page 51.

Calling a number in the "Contacts"

After finding the entry you want to call in the "**Contacts**" screen, you can select the number and make the call.

❒ Before using this function, you need to transfer the phone book entries stored in your cellular phone to the navigation system.

➲ For details, refer to *Transferring the phone book* on page 63.

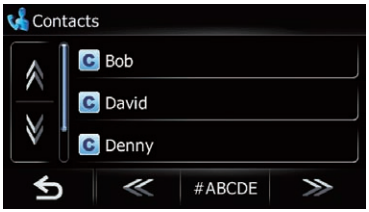
1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Contacts].

The "**Contacts**" screen appears.

3 Switch the page of the list to display the desired entry.



- Touch or .

Shows the next or previous alphabet tab.
Switching the alphabet tab also switches the list display.

- Touch alphabet tabs.

Makes the screen jump to the beginning of the page including the entry whose names start with any of selected letters or numbers.
Each touch of the alphabet tab cycles through the list by the first letter of the list item.
Touching [**#ABCDE**] displays all entries that start with symbols or numbers.
Touching [**Others**] displays the page including entries that are not assigned to any of the other tabs.

4 Touch the desired entry on the list to make a call.

5 Touch to end the call.

Dialing from the history

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

❒ Each call history saves 30 calls per registered cellular phone. If the number of calls exceeds 30, the oldest entry will be deleted.

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Received], [Dialed] or [Missed].

The selected call history list appears.

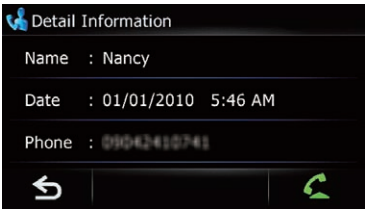
3 Touch an entry on the list.

Dialing starts.

❒ To cancel the call after the system starts dialing, touch .

- Touch [**Detail**].

The "**Detail Information**" screen appears.



You can check the details of the party before making a phone call.

4 Touch to end the call.

Dialing a favorite location

You can make a call to an entry stored in the "**Favorites**" list.

1 Display the "Navigation Menu" screen.

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Favorites].

The "**Select Favorite**" screen appears.

3 Touch next to the location that you want to make a call.

The "**Edit Favorite**" screen appears.

4 Touch to make a call.

To cancel the call after the system starts dialing, touch .

5 Touch to end the call.

Dialing a facility's phone number

You can make a call to facilities with phone number data.

❒ You cannot make a call to locations or POIs that have no phone number data.

1 Display the "Navigation Menu" screen.

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [POI].

The "**POI Search**" screen appears.

3 Search for the POI.

The "**POI List**" screen appears.

➲ For details of the operation, refer to *Searching for Points of Interest (POI)* on page 39.

4 Touch next to the POI that you want to call.

The "**Detailed POI Information**" screen appears.

5 Touch to make a call.

To cancel the call after the system starts dialing, touch .

6 Touch to end the call.

Dialing from the map

You can make a call by selecting the icon of a registered location or a POI icon from the map screen.

❒ You cannot make a call to locations or POIs that have no phone number data.

1 Scroll the map, and place the cursor on an icon on the map.

2 Touch .

Detailed information is displayed.

3 Touch to make a call.

To cancel the call after the system starts dialing, touch .

4 Touch to end the call.

Receiving a phone call

You can perform hands-free answering by using the navigation system.

Answering an incoming call

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

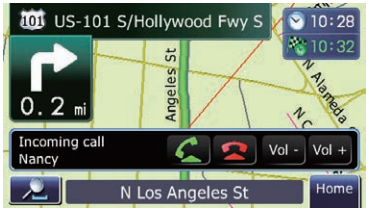
If "**Auto Answer Preference**" is set to "**Off**", answer the call manually. Answering is available if any screen is displayed, such as the map screen or the setting screen.

❒ You can set this navigation system to automatically answer incoming calls.
➲ For details, refer to *Answering a call automatically* on page 65.

1 When a call comes in, the answering operation menu appears on the screen.

❒ The registered name appears if the phone number of the received call is already registered in "**Contacts**".
❒ Depending on the caller ID service, the phone number of the received call may not be displayed. "**Unknown**" appears instead.

2 To answer an incoming call, touch .



When there is an incoming call, you can reject it by touching .

❒ You can adjust volume when you are talking. To adjust volume, touch [**Vol –**] and [**Vol +**] displayed on the screen (like below) when you are talking.

3 Touch to end the call.

The call ends.

❒ If the voice on the other end of the call is too quiet to hear, you can adjust the volume of the received voice.
➲ For details, refer to *Setting the phone volume* on page 65.
❒ You may hear a noise when you hang up the phone.

Rejecting an incoming call

You can reject an incoming call.

➲ For details, refer to *Setting the automatic rejection function* on page 66.

● **When a call comes in, touch .**

The call is rejected.

❒ The rejected call is recorded in the missed call history list.
➲ For details, refer to *Dialing from the history* on page 61.■

Transferring the phone book

You can transfer the phone book entries from your cellular phone to the phone book of the navigation system.

❒ Depending on the cellular phone, phone book may be called Contacts, Business Card or something else.
❒ With some cellular phones, it may not be possible to transfer the entire phone book at once. In this case, transfer addresses one at a time from your phone book using your cellular phone.
❒ The maximum 400 entries can be transferred per cellular phone. If the entries exceed 400, the extra entries will not be transferred. If more than one number is registered for one person, such as work place and home, each number is counted separately.
❒ If the entry has multiple phone number data, those numbers are stored as a separate item.

- ❒ Depending on the cellular phone that is connected to this navigation system via Bluetooth technology, this navigation system may not be able to display the phone book correctly. (Some characters may be garbled.)
- ❒ If the phone book in the cellular phone contains image data, the phone book may not be correctly transferred.

1 Connect the cellular phone that has the phone book to transfer.

➲ For details, refer to *Connecting a registered cellular phone* on page 59.

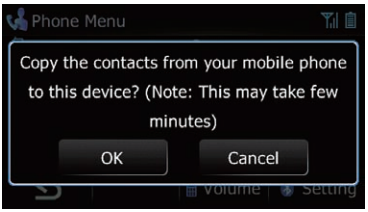
2 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

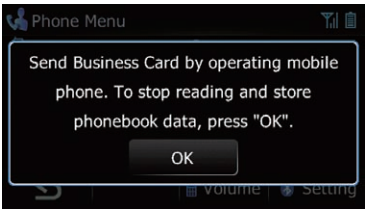
3 Touch [Transfer] on the "Phone Menu" screen.

The confirmation messages appear.

4 Touch [OK].

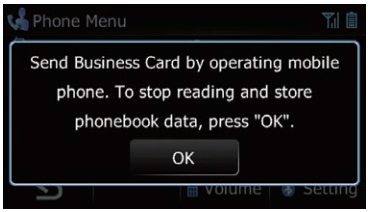


5 Check that the following screen is displayed, and operate your cellular phone to transfer the phone book entries.



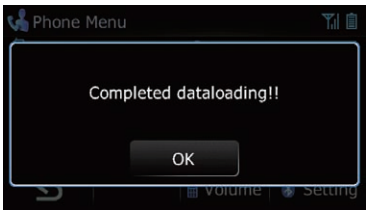
- ❒ You can send the phone book entries repeatedly before touching [**OK**]. If your cellular phone supports one-by-one transfer only, send all the entries that you want to transfer and then touch [**OK**].
- ❒ If your phone has a capability for automatic transfer of phone book, this screen is skipped and transfer will start.
- ❒ The transferred data cannot be edited on the navigation system.

6 Touch [OK].



Transfer starts. It may take time depending on how many entries will be transferred.

7 When the completion message appears, check the message and touch [OK].



Transfer ends. ■

Clearing memory

You can clear the memory of each item that corresponds to the connected cellular phone: phone book, dialed/received/missed call history list and preset dials.

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Setting].

The "**Bluetooth Settings**" screen appears.

3 Touch [Clear Memory].
The "**Clear Memory**" screen appears.

On this screen, you can select the following items:

- **Contacts**:
  Clears the registered phone book.
- **Received Calls List**:
  Clears the received call history list.
- **Dialed Calls List**:
  Clears the dialed call history list.
- **Missed Calls List**:
  Clears the missed call history list.

▪ Touch [**Clear All**].
It clears all the data that correspond to the connected cellular phone.

4 Touch [Yes].
Data on the selected item is cleared from this navigation system's memory.

❒ If you do not want to clear the memory that you have selected, touch [**No**]. ■

Changing the phone settings

Setting the phone volume

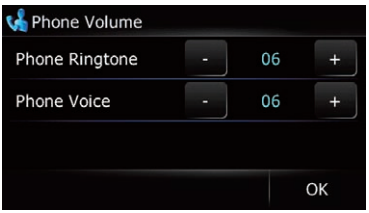
The volume level for hands-free phoning can be adjusted.

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Volume] on the "Phone Menu" screen.
The "**Phone Volume**" screen appears.

3 Touch [+] or [–] to set their volume.



- **Phone Ringtone**:
  This setting controls the incoming ring tone volume.
- **Phone Voice**:
  This setting controls the incoming voice volume.

❒ Phone volume varies depending on the incoming caller's phone, volume setting and other conditions.

➲ For details concerning operations, refer to *Answering an incoming call* on page 62.

Stopping Bluetooth wave transmission

You can stop transmission of electric waves by turning off the Bluetooth function. If you do not use the Bluetooth wireless technology, we recommend selecting "**Off**".

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Setting].
The "**Bluetooth Settings**" screen appears.

3 Touch [Bluetooth On/Off].
Touching [**Bluetooth On/Off**] switches between "**On**" and "**Off**".

Answering a call automatically

The navigation system automatically answers incoming calls to the cellular phone, so you can answer a call while driving without taking your hands off the steering wheel.

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

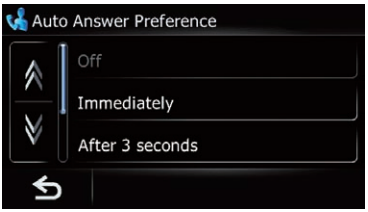
2 Touch [Setting].

The "**Bluetooth Settings**" screen appears.

3 Touch [Auto Answer Preference].

The "**Auto Answer Preference**" screen appears.

4 Touch the desired option.



On this screen, you can select the following items:

- **Off**:
  No automatic response. Respond manually.
- **Immediately**:
  Answers immediately.
- **After 3 seconds**:
  Answers after three seconds.
- **After 6 seconds**:
  Answers after six seconds.
- **After 10 seconds**:
  Answers after ten seconds.

Setting the automatic rejection function

If this function is on, the navigation system automatically rejects all incoming calls.

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Setting].

The "**Bluetooth Settings**" screen appears.

3 Touch [Refuse All Calls].

Touching [**Refuse All Calls**] switches between "**On**" and "**Off**".

❒ If both "**Refuse All Calls**" and "**Auto Answer Preference**" are activated, "**Refuse All Calls**" takes priority and all incoming calls are automatically rejected.

❒ If "**Refuse All Calls**" is set to "**On**", rejected incoming calls will be stored in the missed call list.

Echo canceling and noise reduction

When you are operating hands-free phoning in the vehicle, you may hear an undesirable echo. This function reduces the echo and noise while you are using hands-free phoning, and maintains a certain sound quality.

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Setting].

The "**Bluetooth Settings**" screen appears.

3 Touch [Echo Cancel].

Touching [**Echo Cancel**] switches between "**On**" and "**Off**".

Setting automatic connection

When automatic connection is active, the navigation system will automatically establish a connection with a registered phone when it comes into range. Using this feature avoids all of the processes for establishing a connection.

❒ With some cellular phones, it may not be possible to perform automatic connection.

1 Display the "Phone Menu" screen.

➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Setting].

The "**Bluetooth Settings**" screen appears.

3 Touch [Auto Connect].
Touching [**Auto Connect**] switches between "**On**" and "**Off**".
❒ Automatic connection is performed in the registration number order.

Editing the device name

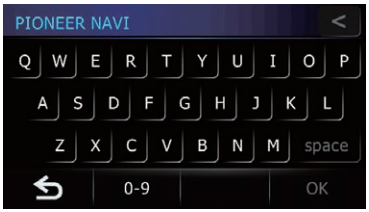
You can change the device name to be displayed on your cellular phone. (Default is "**PIONEER NAVI**".)

1 Display the "Phone Menu" screen.
➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

2 Touch [Setting].
The "**Bluetooth Settings**" screen appears.

3 Touch [Edit Name].
The keyboard to enter the name appears.

4 Enter the new name by using the keyboard.



■ Touch < to delete the current name, and enter the new name by using the keyboard. 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 Touch [OK].
The name is changed.
❒ Up to 16 characters can be entered for a device name.

Updating the Bluetooth wireless technology software

Update files will be available for download in the future. You will be able to download the latest update from an appropriate website to your PC.
❒ Before you download the files and install the update, read through the instructions on the website. Follow the instructions on the website for steps until [**Update**] becomes active.

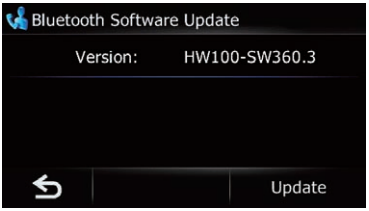
1 Insert an SD memory card into the SD card slot.

2 Display the "Phone Menu" screen.
➲ For details of the operations, refer to *Displaying the phone menu* on page 55.

3 Touch [Setting].
The "**Bluetooth Settings**" screen appears.

4 Touch [Bluetooth Software Update].
The current version is displayed.

5 Touch [Update].



A message confirming whether to start updating the software appears.
Update starts.

6 To finish the update, touch [OK].
Update is completed. ■

Notes for hands-free phoning

General notes

- Connection to all cellular phones featuring Bluetooth wireless technology is not guaranteed.
- The line-of-sight distance between this navigation system and your cellular phone must be 10 meters 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 cellular phones, the ring sound may not be output from the speakers.
- If private mode is selected on the cellular phone, hands-free phoning may be disabled.

Registration and connection

- Cellular phone operations vary depending on the type of cellular phone. Refer to the instruction manual that came with your cellular phone for detailed instructions.
- With cellular phones, phone book transfer may not work even though your phone is paired with the navigation system. In that case, disconnect your phone, perform pairing again from your phone to the navigation system, and then perform the phone book transfer.

Making and receiving calls

- You may hear a noise in the following situations:
  - — When you answer the phone by using the button on the phone.
  - — When the person on the other end of line hangs up the phone.
- If the person on the other end of the phone call cannot hear the conversation due to an echo, decrease the volume level for hands-free phoning. This may reduce the echo.
- With some cellular phones, even if you press the accept button on the cellular 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, the name that comes first in the phone book 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.
- During incoming and outgoing calls or talking on a phone, you can only do the following operations:
  - — Touching , , [**Vol +**], and [**Vol –**].
  - — Displaying the map screen.
  - — Switching the audio sources.

The received call history and the dialed number history

- Calls made or editing performed only on your cellular phone will not be reflected to the dialed number history or phone book in the navigation system.
- 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 cellular phone, the dialed number history data will be recorded as "**Unknown**" in the navigation system.

Phone book transfers

- If there are more than 400 phone book entries on your cellular phone, all entries may not be able to be downloaded completely.
- With some cellular phones, it may not be possible to transfer all items in the **Contacts** at one time. In this case, transfer items one by one from your cellular phone.
- Depending on the cellular phone, this navigation system may not display the phone book correctly. (Some characters may be garbled, or first and last names may be reversed.)
- If the phone book in the cellular phone contains image data, the phone book may not be transferred correctly. (Image data cannot be transferred from the cellular phone.)
- Depending on the cellular phone, phone book transfer may not be available. ▣

Using the fuel consumption function

Inputting the fuel consumption information for calculating the fuel cost

You can estimate the fuel cost to your destination by entering the fuel consumption information in the navigation system.

➲ For details, refer to *Setting a route to your destination* on page 44.

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

2 Touch [Gas Mileage].

The "**Gas Mileage**" screen appears.

3 Enter the fuel consumption information.

Enter the following items:

- **Surface Road**:
  Enter the fuel cost when you drive on ordinary roads.
  ❒ Fuel cost depends on the "**Gas Unit**" setting.
    — When "**Gas Unit**" is set to "**Gallon**". Enter how many miles (kilometers) you get to a gallon.
    — When "**Gas Unit**" is set to "**Liter**". Enter how much fuel you need to travel 60 miles (100 kilometers).
- **HWY Gas Mile**:
  Enter the fuel cost when you drive on the freeway.
  ❒ Fuel cost depends on the "**Gas Unit**" setting.
    — When "**Gas Unit**" is set to "**Gallon**". Enter how many miles (kilometers) you get to a gallon.
    — When "**Gas Unit**" is set to "**Liter**". Enter how much fuel you need to travel 60 miles (100 kilometers).
- **Gas Price/Unit**:
  Enter the fuel unit price.
- **Gas Price**:
  ➲ For details, refer to *Calculating the fuel consumption* on this page.
- **Gas Unit**:
  Set the fuel unit.
- **Currency**:
  Set the unit of currency.

When all the items are entered, inputting the fuel consumption information is complete.

Calculating the fuel consumption

When you enter the fueling information to the navigation system, and export the data to SD memory cards, you can check the fuel consumption information by using the utility program AVIC FEEDS, which is available separately, on your PC.

❒ Up to 24 sets of data can be stored. You can also export the data, as described below.
  If the entries reach the maximum number, a new entry will overwrite the oldest one.

> These calculations are based only on the information that you provide and not on any data from the vehicle. The fuel mileage displayed is only a reference value, and does not guarantee the fuel mileage displayed can be obtained.

1 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

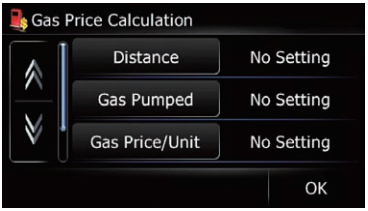
2 Touch [Gas Mileage].

The "**Gas Mileage**" screen appears.

3 Touch [Gas Price].

The "**Gas Price Calculation**" screen appears.

4 Enter the fuel consumption information.

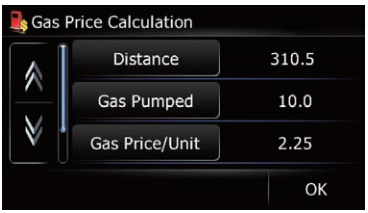


Enter the following items:

- **Distance**:
  Enter the distance traveled since the previous fueling.
  - ❒ The distance is entered automatically only when the distance traveled since the previous fueling is recorded.
- **Gas Pumped**:
  Enter the amount of fuel pumped.
- **Gas Price/Unit**:
  Enter the fuel unit price.

When all the items are entered, the fuel consumption is displayed next to "**Gas Mileage**".

5 Touch [OK].



The "**Gas Mileage**" screen appears.

Exporting the data of fuel cost information

Exporting the fuel cost data to an SD memory card is possible.

- ❒ The data stored in this navigation system will be cleared as exporting it to the SD memory card.
- ❒ If there is previous data in the SD memory card, the data is overwritten with new data.

1 Insert an SD memory card into the SD card slot.

2 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

3 Touch [Gas Mileage].

The "**Gas Mileage**" screen appears.

4 Touch [Export].

After a message confirming whether to export the data appeared, exporting the data to the SD memory card starts.

The "**Gas Mileage**" screen appears when it is done.

Exporting the data of "Gas Mileage" from "Export/Import Menu" screen

1 Insert an SD memory card into the SD card slot.

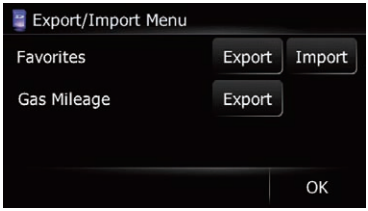
2 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

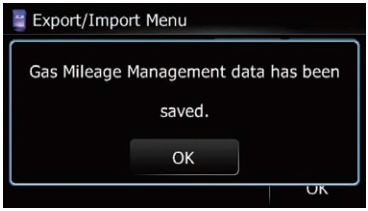
3 Touch [Data In/Out].

The "**Export/Import Menu**" screen appears.

4 Touch [Export] next to "Gas Mileage".



Data export starts.
After the data is exported, the completion message appears.



5 Touch [OK].
The "**Navigation Menu**" screen appears.

This product enables you to use applications downloaded via the utility program AVIC FEEDS, providing for navigation functions and a wide variety of entertainment functions.

Preparing in advance

Before downloading any applications using the utility program AVIC FEEDS, you need to store the model information to an SD memory card.
After that, use AVIC FEEDS to download the application to the SD memory card containing model information.

❒ The utility program AVIC FEEDS is available from our website. For details, refer to the information on our website.

To save model information to an SD memory card, connect your PC to a detachable device loaded with an SD memory card and switch to "**PC Mode**".

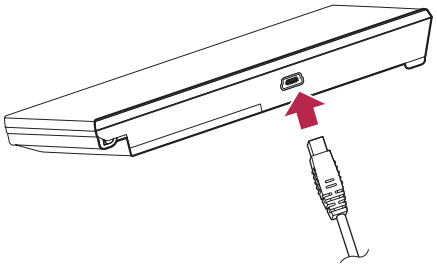
Switching to "PC Mode"

1 Detach the detachable device from the head unit.

➲ For detailed operations, refer to Operation Manual for AVIC-U310BT.

2 Turn off the power switch of detachable device.

3 Connect the USB cable supplied with AVIC-U310BT to USB port (Mini-B).



4 Connect the USB cable to your PC.
Connect the detachable device and your PC using the USB cable.

5 Insert an SD memory card into the SD card slot.

6 Turn on the power switch of detachable device.

7 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

8 Touch [Connect PC].
A message confirming whether to restart the navigation system appears.

9 Touch [OK].
The navigation system restarts.
The navigation system switches to **PC Mode** and model information is stored to the SD memory card.

Canceling "PC Mode"

1 Disconnect the detachable device from your PC.

2 Touch [End].
"**PC Mode**" is canceled, and then the system restarts. ■

Launching the application

You can launch applications downloaded to an SD memory card via the utility program AVIC FEEDS.

❒ Navigation functions are unavailable when an application is running. Close the application to use navigation functions.

❒ When an application is running, you may not use the hands-free phoning function to place a call.
You may answer the telephone when you receive a call.

- ❒ The navigation system can recognize a maximum of 8 applications.
- ❒ The navigation system can run one application at a time.
- ❒ When running an application that outputs sound, set the audio source to "**Off**".
- ❒ For details of applications, refer to the utility program AVIC FEEDS.

1 Use the utility program AVIC FEEDS to download an application to an SD memory card.

2 Insert an SD memory card into the SD card slot.

3 Touch [Home] on the map screen to display the "Top Menu" screen.

➲ For details of the operations, refer to *Screen switching overview* on page 24.

4 Touch [Applications].

The "**Applications Menu**" screen appears.

5 Touch the application that you want to launch.

A message confirming whether to restart the navigation system appears.

6 Touch [OK].

The navigation system restarts, and the application is launched.

This chapter describes the basic operations of the audio source.
You can play or use the following sources with your Pioneer navigation system.
- TUNER (FM, AM)
- CD
- ROM (MP3, AAC, WAV, WMA)
- USB

The following sources can be played back or used by connecting an auxiliary device.
- XM (XM tuner)
- SIRIUS (SIRIUS tuner)
- "HD" (HD Radio tuner)
- iPod
- External unit 1 (EXT1)
- External unit 2 (EXT2)
- AUX (auxiliary device)

Switching the audio source

1 Press the MODE button when the map of the current location is displayed.
The audio operation screen appears.

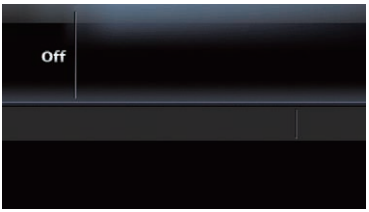
2 Press the SRC/OFF button repeatedly to switch between the following sources.
XM (XM tuner) — **SIRIUS** (SIRIUS tuner) — **"HD"** (HD Radio tuner)/**TUNER** (tuner) — **CD** (built-in CD player) — **USB** (USB storage device)/**iPod** (iPod connected using USB input) — **EXT1** (external unit 1) — **EXT2** (external unit 2) — **AUX** (auxiliary device)

❒ In the following cases, the sound source cannot to be used:
- When a unit corresponding to each source is not connected to the navigation system.
- When no disc is set in the navigation system.
- When "**AUX**" in the "**Initial Setting**" screen is set to "**Off**".

➲ For details, refer to *Switching the auxiliary setting* on page 121.

❒ If the HD Radio tuner is connected to the navigation system, "**TUNER**" is skipped in the audio source selection.

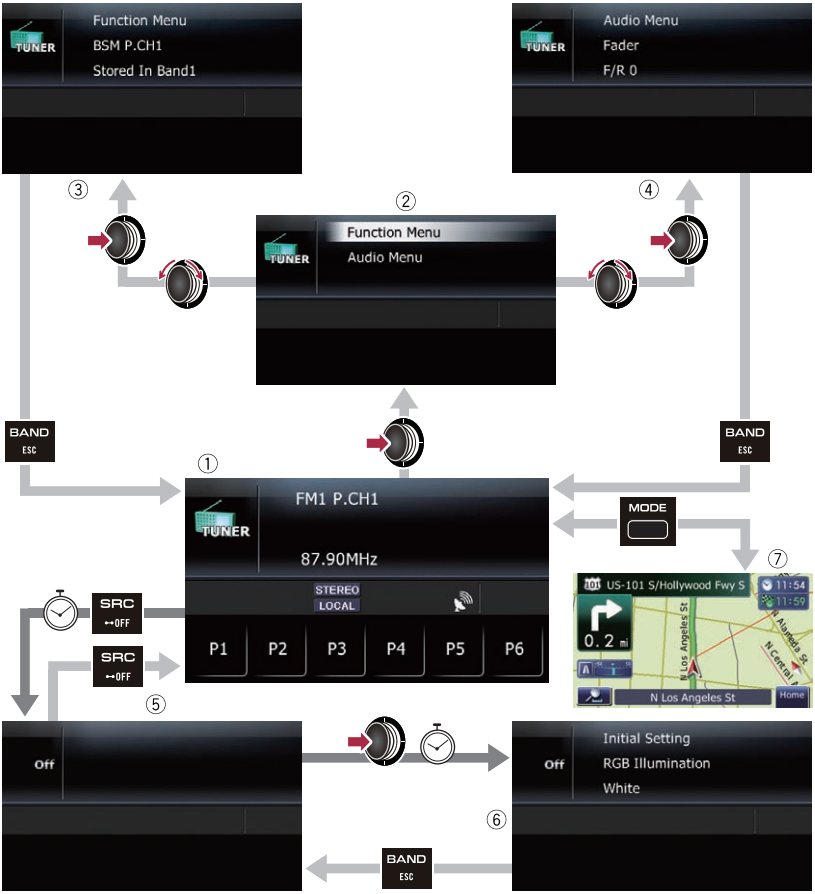
Turning off the audio source



● **Press and hold the SRC/OFF button until the audio source turns off.**
The audio source is switched off.

❒ To return to the display of each source, press the **SRC/OFF** button.

Audio screen switching overview



Press the button.

Press and hold the button for a few seconds.

Press the center of **MULTI-CONTROL**

Turn **MULTI-CONTROL** to select the item.

■

What you can do on each menu

① **Audio operation screen**
When you play an audio source, this screen appears.
② **Function select screen**
You can select either "**Function Menu**" or "**Audio Menu**".
Depending on the audio source, "**Function Menu**" may not exist.
③ **"Function Menu" screen**
You can change additional function settings.
④ **"Audio Menu" screen**
You can make various sound effects to audio sources.
⑤ **Source off screen**
⑥ **"Initial Setting" screen**
You can make various settings for the hardware control.
⑦ **Map screen**
Press the **MODE** button to display the navigation map screen.■

Displaying the "Function Menu" screen

Advanced functions for each audio source are put on the "**Function Menu**" screen. To use those functions, display the "**Function Menu**" screen.

❒ Depending on the audio source, "**Function Menu**" may not exist.

1 Press the center of MULTI-CONTROL when the audio screen is displayed.

2 Turn MULTI-CONTROL to select "Function Menu".

3 Press the center of MULTI-CONTROL to enter the "Function Menu" screen.■

You can listen to the radio by using the navigation system. This section describes operations for radio.

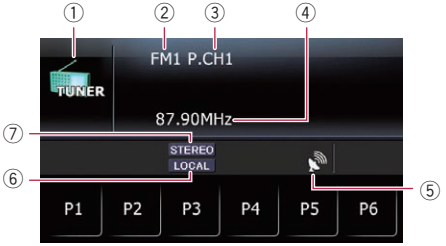
1 Press the SRC/OFF button to display the "TUNER" screen.

➲ For details, refer to *Switching the audio source* on page 75.

2 Press BAND/ESC button repeatedly until the desired band is selected.

If you want to select AM, press **BAND/ESC** button repeatedly until "**AM**" appears in the display.

Reading the screen



① **Source icon**
Shows which source has been selected.

② **Band**
Shows which band the radio is tuned to: **FM1**, **FM2**, **FM3** or **AM**.

③ **Preset number indicated next to "P.CH"**
Shows what preset item has been selected.

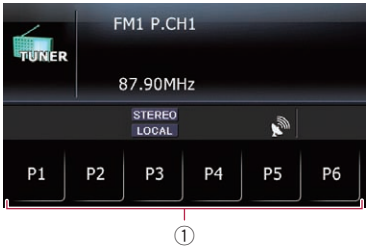
④ **Frequency**

⑤ **Signal level indicator**

⑥ **LOCAL indicator**
Shows when local seek tuning is on.
➲ For details, refer to *Tuning in strong signals* on the next page.

⑦ **STEREO indicator**
Shows when the selected frequency is being broadcast in stereo.

Using the touch panel keys



① P1 to P6:
Recalls radio stations.
➲ For details, refer to *Storing and recalling broadcast frequencies* on the next page.

Operating by hardware buttons

Pressing the BAND/ESC button
Band can be selected from among **FM1**, **FM2**, **FM3**, or **AM**.

Pressing MULTI-CONTROL up or down
You can recall radio stations assigned to preset tuning keys P1 to P6.

Pressing MULTI-CONTROL left or right
The frequencies move up or down step by step.

Pressing and holding MULTI-CONTROL left or right
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.
❒ You can cancel seek tuning by pressing **MULTI-CONTROL** left or right.

Pressing the center of MULTI-CONTROL
The function select screen appears.

Storing and recalling broadcast frequencies

With a touch of any of the preset tuning keys P1 to P6, you can easily store up to six broadcast frequencies for later recall (also with the touch of a key).

1 When you find a frequency that you want to store in memory, keep touching a preset tuning key P1 to P6 until the preset number (e.g., P.CH1) stops flashing.

The selected radio station has been stored in memory.

- ❒ Up to 18 FM stations, six for each of the three FM bands, as well as six AM stations, can be stored in memory.

2 Touch the same preset tuning key P1 to P6.

The radio station frequencies are recalled from memory.

Using the function menu

1 Display the "Function Menu" screen.

- ➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to select a function.

Turning **MULTI-CONTROL** switches between the functions in the following order:
BSM (best stations memory) — **Local** (local seek tuning)

Storing the strongest broadcast frequencies

"BSM" (best stations memory) lets you automatically store the six strongest broadcast frequencies under the preset tuning keys P1 to P6 and, once stored there, you can tune in to these frequencies with the touch of a key.

1 Display the "Function Menu" screen.

- ➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to display "BSM".

3 Press the center of MULTI-CONTROL to begin a search.

"**Searching**" begins to flash. While "**Searching**" is flashing, the six strongest broadcast frequencies will be stored under the preset tuning keys P1 to P6 in order of their signal strength. When this is complete, "**Searching**" stops flashing.

- ❒ To cancel the storage process, press the center of **MULTI-CONTROL** again.
- ❒ Storing broadcast frequencies with BSM may replace broadcast frequencies you have already saved by using P1 to P6.

Tuning in strong signals

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

1 Display the "Function Menu" screen.

- ➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to display "Local".

3 Press the center of MULTI-CONTROL.

Each press of the center of **MULTI-CONTROL** switches the setting between on and off.

4 Press MULTI-CONTROL left or right to set the sensitivity.

- **FM**: **Level 1** — **Level 2** — **Level 3** — **Level 4**
- **AM**: **Level 1** — **Level 2**

- ❒ The highest level setting allows reception of only the strongest stations, while lower settings let you receive weaker stations.

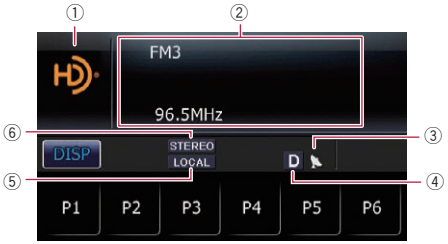
You can listen to the radio by using the navigation system. This section describes operations for HD Radio reception.

- ❒ This HD Radio Ready™ receiver (this navigation system) is ready to receive HD Radio broadcasts when connected to the GEX-P20HD, sold separately.
  For details concerning operation, refer to the HD Radio tuner's operation manual.
- ❒ HD Radio™, HD Radio Ready™ and HD Radio Ready logos are proprietary trademarks of iBiquity Digital Corporation.

● **Press SRC/OFF button to display the digital radio screen.**

➲ For details, refer to *Switching the audio source* on page 75.

Reading the screen



① **Source icon**
Shows which source has been selected.

② **Text display area**

- **Band**
  Shows which band the radio is tuned to: FM1, FM2, FM3 or AM.
- **Preset number indicated next to "P.CH"**
  Shows what preset item has been selected.
- **Frequency**
- **Multicasting indicator**
  Shows the number of multicast channels in the current frequency.
- **: Channel name**
  Shows the channel name of broadcast channel.
- **: Artist name**
  Shows the artist name for the current song.
- **: Song title**
  Shows the title of the song currently playing.
- **P: Program type**
  Shows the type of current program.

③ **Signal level indicator**

④ **Blending mode indicator**

➲ For details, refer to *Switching the reception mode* on page 82.

⑤ **LOCAL indicator**
Shows when local seek tuning is on.

➲ For details, refer to *Tuning in strong signals* on page 82.

⑥ **STEREO indicator**
Shows when the selected frequency is being broadcast in stereo.

Using the touch panel keys

① DISP:
Switches the combination of displayed items in the text display area.

- ❒ Touching and holding DISP scrolls displayed information.
- ❒ Only when the tuner has been tuned in to an HD Radio station, can the display be changed.

② P1 to P6:
Recalls radio stations.

➲ For details, refer to *Storing and recalling broadcast frequencies* on this page.

Operating by hardware buttons

Pressing the BAND/ESC button
Band can be selected from among **FM1**, **FM2**, **FM3**, or **AM**.

Pressing MULTI-CONTROL up or down
You can recall radio stations assigned to preset tuning keys P1 to P6.

Pressing MULTI-CONTROL left or right
The frequencies move up or down step by step.

Pressing and holding MULTI-CONTROL left or right
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.

❒ You can cancel seek tuning by pressing **MULTI-CONTROL** left or right.

Pressing the center of MULTI-CONTROL
The function select screen appears.

Storing and recalling broadcast frequencies

With a touch of any of the preset tuning keys P1 to P6, you can easily store up to six broadcast frequencies for later recall (also with the touch of a key).

1 When you find a frequency that you want to store in memory, keep touching a preset tuning key P1 to P6 until the preset number (e.g., P.CH1) stops flashing.
The selected radio station has been stored in memory.

2 Touch the same preset tuning key P1 to P6.
The radio station frequencies are recalled from memory.

Using the function menu

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to select a function.
Turning **MULTI-CONTROL** switches between the functions in the following order:
BSM (best stations memory) — **Local** (local seek tuning) — **Seek Mode** (seek mode) — **Blending** (reception mode)

Storing the strongest broadcast frequencies

"BSM" (best stations memory) lets you automatically store the six strongest broadcast frequencies under the preset tuning keys P1 to P6 and, once stored there, you can tune in to these frequencies with the touch of a key.

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to display "BSM".

3 Press the center of MULTI-CONTROL to begin a search.
"**Searching**" begins to flash. While "**Searching**" is flashing, the six strongest broadcast frequencies will be stored under the preset tuning keys P1 to P6 in order of their signal strength. When this is complete, "**Searching**" stops flashing.

❒ To cancel the storage process, press the center of **MULTI-CONTROL** again.

❒ Storing broadcast frequencies with BSM may replace broadcast frequencies you have already saved by using P1 to P6.

Tuning in strong signals

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

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "Function Menu" screen* on page 77.

2 Turn MULTI-CONTROL to display "Local".

3 Pressing the center of MULTI-CONTROL switches between on and off.

4 Press MULTI-CONTROL left or right to set the sensitivity.

There are four levels of sensitivity for FM and two levels for AM:

- **FM**: **Level 1** — **Level 2** — **Level 3** — **Level 4**
- **AM**: **Level 1** — **Level 2**

❒ The FM "**4**" (AM "**2**") setting allows reception of only the strongest stations, while lower settings let you receive weaker stations. ■

Switches the seek mode

You can select the method of seek tuning.

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "Function Menu" screen* on page 77.

2 Turn MULTI-CONTROL to display "Seek Mode".

3 Press the center of MULTI-CONTROL to switch between "Seek All" and "Seek HD".

- **Seek All**:
  Seeks stations from both analog and digital broadcasting.
- **Seek HD**:
  Seeks from digital broadcasting only.

❒ If you select "**Seek HD**" on this setting while "**Blending**" is set to "**Off**", the setting on "**Blending**" turns to "**On**" automatically. ■

Switching the reception mode

If a digital broadcast reception condition gets poor, the tuner automatically switches to the analog broadcast of the same frequency level in default. If you want to prevent a frequent automatic switching, switch this setting to "**Off**".

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "Function Menu" screen* on page 77.

2 Turn MULTI-CONTROL to display "Blending".

3 Press the center of MULTI-CONTROL to switch between "On" and "Off".

- **Off**:
  Receives analog broadcasting only.
- **On**:
  Automatically switches to the analog broadcast of the same frequency level as the digital broadcast.
  D is displayed while "**Blending**" is set to "**On**".

❒ If you select "**Off**" on this setting while "**Seek Mode**" is set to "**Seek HD**", the setting on "**Seek Mode**" turns to "**Seek All**" automatically. ■

Playing audio CDs

You can play a normal music CD using the built-in drive of the navigation system. This section describes how.

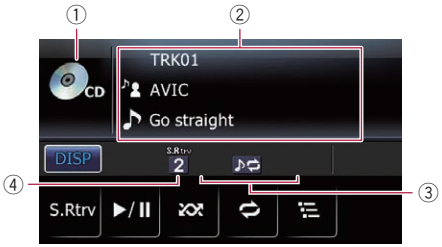
● **Insert the disc you want to play into disc-loading slot.**

Playback starts from the first track of the CD.

❒ If the disc is already inserted, press the **SRC/OFF** button to display the "**CD**" screen.

➲ For details, refer to *Switching the audio source* on page 75.

Reading the screen



① **Source icon**
Shows which source has been selected.

② **Text display area**
The titles of the items marked with an asterisk (*) will be displayed only when the CD-TEXT disc is used. When using a normal music CD, they are not displayed.

- **Track number indicated next to "TRK"**
  Shows the number of the track currently playing.
- **Play time**
  Shows the elapsed playing time within the current track.
- : **Artist name of the disc***
  Shows the artist name of the disc currently playing (when available).
- : **Artist name of the track***
  Shows the artist name of the track currently playing (when available).
- : **Disc title***
  Shows the title of the disc currently playing (when available).
- : **Track title***
  Shows the title of the track currently playing (when available).

③ **Playback condition indicator**
Indicates the current playback condition.

Playing tracks in random order

Indicator:	Meaning
No indicator	Does not play tracks in random order.
	Plays all tracks in the current disc in random order.

Setting a repeat play range

Indicator:	Meaning
No indicator	Repeats the current disc.
	Repeats just the current track.

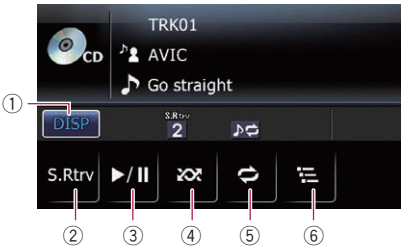
Scanning tracks of a CD

Indicator:	Meaning
No indicator	Cancels the scan play.
	Plays the beginning of each track in the current repeat play range for about 10 seconds.

④ **Sound Retriever indicator**

➲ For details, refer to ***Using Sound Retriever*** on page 85.■

Using the touch panel keys



① DISP:
Switches the combination of displayed items in the text display area.

② **S.Rtrv**:
Sets Sound Retriever function.
➲ For details, refer to ***Using Sound Retriever*** on the next page.

③ ▶/II:
Playback and Pause

④ :
Plays tracks in random order.
➲ For details, refer to *Playing tracks in random order* on the next page.

⑤ :
Repeats playback.
➲ For details, refer to *Setting a repeat play range* on the next page.

⑥ :
Performs scan play of a CD.
➲ For details, refer to *Scanning tracks of a CD* on the next page.■

Operating by hardware buttons

Pressing the BAND/ESC button
This operation is available only when playing a disc containing both CD-DA and compressed audio files.
➲ For details, refer to *Pressing the* **BAND/ESC** *button* on page 87.

Pressing MULTI-CONTROL right
Skips to the start of the next track.

Pressing and holding MULTI-CONTROL right
Performs fast forward.

Pressing MULTI-CONTROL left
Skips to the start of the current track.
Pressing it twice continuously will skip to the previous track.

Pressing and holding MULTI-CONTROL left
Performs fast reverse.
❒ Fast reverse stops when it reaches the beginning of the first track on the disc.

Pressing the center of MULTI-CONTROL
The function select screen appears.

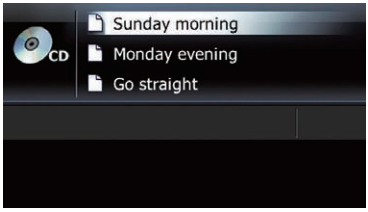
Pressing the LIST button
Shows the list to select a track.
❒ This function is available only when the CD-TEXT disc is played.
➲ For details, refer to *Selecting a track from the list* on this page.■

Selecting a track from the list

Track title list lets you see the list of track titles on a CD-TEXT disc and select one of them to play back.

1 Press the LIST button.
The list of track titles appears.
❒ To return to the previous screen, press the **BAND/ESC** or **LIST** button.

2 Turn MULTI-CONTROL to select the desired track title.



❒ Pressing **MULTI-CONTROL** up or down enables you to perform the equivalent operation.

3 Press the center of MULTI-CONTROL to play the selected track.
❒ Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.■

Setting a repeat play range

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

- **Touch repeatedly until the desired repeat range indicator appears.**
  - :
    Repeats just the current track.
  - No indicator (disc repeat):
    Repeats the current disc.

❒ If you skip a track forward or backward while the repeat play range is set to , the repeat play range changes to disc repeat automatically.

Playing tracks in random order

All of the tracks in the disc can be played at random by touching only one key.

- **Touch .**

Random play begins.
When you turn random play on, appears.

❒ To turn random play off, touch again.
❒ If you touch while the repeat play range is set to , the repeat play range changes to disc repeat automatically and tracks will be played in random order.

Scanning tracks of a CD

Scan play lets you hear the first 10 seconds of each track on the CD to search for a song.

- **Touch .**

Scan play begins.
After scanning is finished, normal playback of the tracks will begin again.

❒ To turn scan play off, touch again.
❒ If you touch while the repeat play range is set to , the repeat play range changes to disc repeat automatically and scanning tracks will begin.
❒ If you skip a track forward or backward during scan play, the scan play is automatically canceled.
❒ If you touch during scan play, the scan play is automatically canceled and playback of the current track will be repeated.
❒ If you touch during scan play, the scan play is automatically canceled and tracks will be played in random order.

Playback and Pause

- **Touch .**

Playback of the current track pauses, and "**Pause**" is displayed.

❒ To turn pause off, touch again.

Using Sound Retriever

Sound Retriever function automatically enhances compressed audio and restores rich sound.

- **Touch [S.Rtrv] repeatedly to select the desired setting.**

Each touch of [**S.Rtrv**] changes the settings as follows:

- :
  Sound Retriever function (level 1) is activated.
- :
  Sound Retriever function (level 2) is activated.
- No indicator:
  Sets to off.

❒ "**S.Rtrv2**" has a stronger effect than "**S.Rtrv1**" and is more effective when playing back highly compressed audio data.

You can play a disc that contains compressed audio files using the built-in drive of the navigation system. This section describes these operations.

❒ In the following description, the MP3, WMA, AAC, WAV files are collectively referred to as "Compressed audio file".

● **Insert the disc you want to play into disc-loading slot.**

Playback starts from the first file of the ROM.

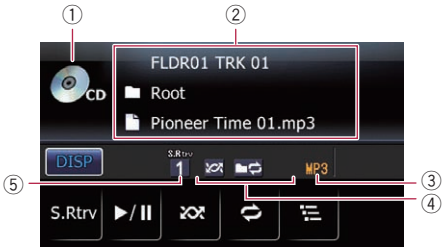
❒ If the disc is already inserted, press the **SRC/OFF** button to display the "**CD**" screen.

➲ For details, refer to *Switching the audio source* on page 75.

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

➲ For details, refer to *Pressing the* **BAND/ESC** *button* on the next page.

Reading the screen



① **Source icon**
Shows which source has been selected.

② **Text display area**

- **Folder number indicated next to "FLDR"**
  Shows the folder number currently playing.
- **Track number indicated next to "TRK"**
  Shows the track number currently playing.
- **Play time**
  Shows the elapsed playing time within the current track.
- **Comment**
  Shows the comment of the file currently playing (when available).
- **: Folder name**
  Shows the folder name currently playing.
- **: File name**
  Shows the file name currently playing.
- **: Track title**
  Shows the title of the track currently playing (when available).
- **: Artist name**
  Shows the artist name for the current song. (when available.)
- **: Album title**
  Shows the title of the album for the current song. (when available.)

❒ The item is blank if there is no corresponding information.

③ **File type indicator**
Shows the type of audio file currently playing.

④ **Playback condition indicator**
Indicates the current playback condition.

Playing files in random order

Indicator:	Meaning
No indicator	Does not play tracks in random order.
	Plays all audio files in the current repeat play range in random order.

Setting a repeat play range

Indicator:	Meaning
No indicator	Repeats all compressed audio files.
	Repeats just the current file.
	Repeats the current folder.

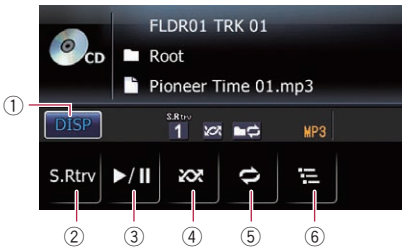
Scanning folders and files

Indicator:	Meaning
No indicator	Cancels the scan play.
	Plays the first audio files of each folder for about 10 seconds when the repeat range is set to all repeat. Plays the beginning of each audio file in the current folder for about 10 seconds when the repeat range is set to .

⑤ **Sound Retriever indicator**

➲ For details, refer to ***Using Sound Retriever*** on page 89.

Using the touch panel keys



① DISP:
Switches the combination of displayed items in the text display area.

② **S.Rtrv**:
Sets Sound Retriever function.

➲ For details, refer to ***Using Sound Retriever*** on page 89.

③ ▶/II:
Playback and Pause

④ :
Plays tracks in random order.

➲ For details, refer to *Playing tracks in random order* on the next page.

⑤ :
Repeats playback.

➲ For details, refer to *Setting a repeat play range* on the next page.

⑥ :
Scans folders and tracks.

➲ For details, refer to *Scanning folders and tracks* on page 89.

Operating by hardware buttons

Pressing the BAND/ESC button

Switches between CD (audio data (CD-DA)) and ROM (compressed audio file).

❒ This operation is available only when playing a disc containing both CD-DA and compressed audio files.

❒ If you have switched between CD-DA and compressed audio, playback starts at the first track on the disc.

Pressing and holding the BAND/ESC button

Playback returns to the root folder.

Pressing MULTI-CONTROL up or down

Selects the previous or next folder and plays the first track on the folder.

❒ You cannot select a folder that does not have a compressed audio file recorded in it.

Pressing MULTI-CONTROL right

Skips to the start of the next track.

Pressing and holding MULTI-CONTROL right

Performs fast forward.

Pressing MULTI-CONTROL left

Skips to the start of the current track.
Pressing it twice continuously will skip to the previous track.

Pressing and holding MULTI-CONTROL left

Performs fast reverse.

❒ Fast reverse stops when it reaches the beginning of the first track on the disc.

Pressing the center of MULTI-CONTROL
The function select screen appears.

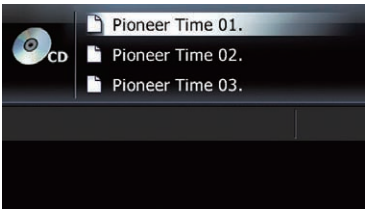
Pressing the LIST button
Shows the list to select a track.
➲ For details, refer to *Selecting a track from the list* on this page.

Selecting a track from the list

The list lets you see the list of file names or folder names on a disc. If you select a folder on the list, you can view its contents. You can play a file on the list by selecting it.

1 Press the LIST button.
The list of track titles and folder names appears.
- ❒ To return to the previous screen, press the **BAND/ESC** or **LIST** button.
- ❒ If the selected folder does not contain any playable file, the file list is not displayed.

2 Turn MULTI-CONTROL to select the desired folder or track.



- ❒ Pressing **MULTI-CONTROL** up or down enables you to perform the equivalent operation.

3 Press the center of MULTI-CONTROL to display the content of the folder or play the selected track.
When a folder is selected, the content of the lower folder is displayed.
When a track is selected, it is played.
- ❒ Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.
- ❒ When a folder is selected, the first track of the selected folder is played by pressing and holding the center of **MULTI-CONTROL**.
- ❒ When the lower folder is listed, the list returns to the upper folder by pressing **MULTI-CONTROL** left.
  - If the root folder is listed, this operation is not available.
- ❒ The content of the root folder is displayed by pressing and holding **MULTI-CONTROL** left.
  - If the root folder is listed, this operation is not available.

Setting a repeat play range

● **Touch repeatedly until the desired repeat range indicator appears.**
- : Repeats just the current track.
- : Repeats the folder currently playing.
- No indicator (all repeat): Repeats all.

- ❒ If you return to the root folder while the repeat play range is set to or , the repeat play range changes to disc repeat automatically.
- ❒ If you skip a track forward or backward while the repeat play range is set to , the repeat play range changes to automatically.

Playing tracks in random order

You can play in a selected repeat range, in random order.

● **Touch .**
Random play begins.
When you turn random play on, appears.
- ❒ To turn random play off, touch again.

❒ If you touch while the repeat play range is set to , the repeat play range changes to automatically and tracks will be played in random order.

Scanning folders and tracks

Scan play lets you hear the first 10 seconds of each track. Scan play is performed in the current repeat play range.

● **Touch .**

Scan play begins.
After completion of track or folder scanning, normal playback of the tracks will begin again.

❒ To turn scan play off, touch again.
❒ If you touch while the repeat play range is set to , the repeat play range changes to automatically and scanning tracks will begin.
❒ If you touch while the repeat play range is set to disc, scan play is performed for only the first tracks of each folder.
❒ If you skip a track forward or backward, or return to the root folder during scan play, the scan play is automatically canceled.
❒ If you touch during scan play, the scan play is automatically canceled and playback of the current track will be repeated.
❒ If you touch during scan play, the scan play is automatically canceled and tracks will be played in random order.

Playback and Pause

● **Touch .**

Playback of the current track pauses, and "**Pause**" is displayed.

❒ To turn pause off, touch again.

Using Sound Retriever

Sound Retriever function automatically enhances compressed audio and restores rich sound.

● **Touch [S.Rtrv] repeatedly to select the desired setting.**

Each touch of [**S.Rtrv**] changes the settings as follows:

- : Sound Retriever function (level 1) is activated.
- : Sound Retriever function (level 2) is activated.
- No indicator: Sets to off.

❒ "**S.Rtrv2**" has a stronger effect than "**S.Rtrv1**" and is more effective when playing back highly compressed audio data.

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

❒ In the following description, the MP3, WMA, AAC, WAV files are collectively referred to as “Compressed audio file”.

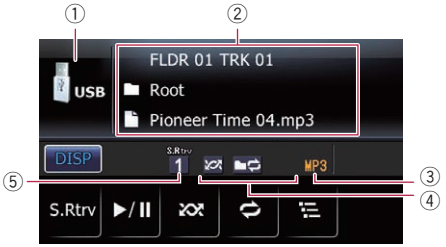
1 Plug the USB storage device into the USB connector.

➲ For detailed operations, refer to Operation Manual for AVIC-U310BT.

2 Press the SRC/OFF button to display the “USB” screen.

➲ For details, refer to *Switching the audio source* on page 75.

Reading the screen



① **Source icon**
Shows which source has been selected.

② **Text display area**

- **Folder number indicated next to “FLDR”**
  Shows the folder number currently playing.
- **Track number indicated next to “TRK”**
  Shows the track number currently playing.
- **Play time**
  Shows the elapsed playing time of the current file.
- **Comment**
  Shows the comment of the file currently playing (when available).
- **: Folder name**
  Shows the folder name currently playing.
- **: File name**
  Shows the file name currently playing.
- **: Track title**
  Shows the title of the track currently playing (when available).
- **: Artist name**
  Shows the artist name currently playing (when available).
- **: Album title**
  Shows the title of the album of the current track (when available).

❒ The item is blank if there is no corresponding information.

③ **File type indicator**
Shows the type of audio file currently playing.

④ **Playback condition indicator**
Indicates the current playback condition.

Playing files in random order

Indicator:	Meaning
No indicator	Does not play files in random order.
	Plays all audio files in the current repeat play range in random order.

Setting a repeat play range

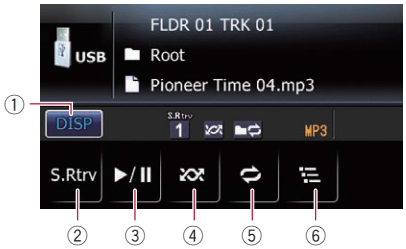
Indicator:	Meaning
No indicator	Repeats all compressed audio files.
	Repeats just the current file.
	Repeats the current folder.

Scanning folders and files

Indicator:	Meaning
No indicator	Cancels the scan play.
	Plays the first audio files of each folder for about 10 seconds when the repeat range is set to all repeat. Plays the beginning of each audio file in the current folder for about 10 seconds when the repeat range is set to .

⑤ **Sound Retriever indicator**
➲ For details, refer to ***Using Sound Retriever*** on page 93.

Using the touch panel keys



① DISP:
Switches the combination of displayed items in the text display area.

② **S.Rtrv**:
Sets Sound Retriever function.
➲ For details, refer to ***Using Sound Retriever*** on page 93.

③ ▶/II:
Playback and Pause

④ :
Plays files in random order.
➲ For details, refer to *Playing files in random order* on the next page.

⑤ :
Repeats playback.
➲ For details, refer to *Setting a repeat play range* on the next page.

⑥ :
Performs scan play of folders and files.
➲ For details, refer to *Scanning folders and files* on the next page.

Operating by hardware buttons

Pressing and holding the BAND/ESC button
Playback returns to the root folder.

Pressing MULTI-CONTROL up or down
Plays the first playable file on the previous or next folder.
❒ The folders where there are no playable files are skipped.

Pressing MULTI-CONTROL right
Skips to the start of the next file.

Pressing and holding MULTI-CONTROL right
Performs fast forward.

Pressing MULTI-CONTROL left
Skips to the start of the current file.
Pressing it twice in a row will skip to the start of the previous file.

Pressing and holding MULTI-CONTROL left
Performs fast reverse.
❒ There is no sound on fast reverse or forward.

Pressing the center of MULTI-CONTROL
The function select screen appears.

Pressing the LIST button
Shows the list to select a file.
➲ For details, refer to *Selecting a file from the list* on this page.

Selecting a file from the list

The list lets you see the file names or folder names. If you select a folder on the list, you can view its contents. If you select a file on the list, you can play the selected file.

1 Press the LIST button.
The list of file and folder names appears.
❒ To return to the previous screen, press the **BAND/ESC** or **LIST** button.
❒ If the selected folder does not contain any playable file, the file list is not displayed.

2 Turn MULTI-CONTROL to select the desired file name.

❒ Pressing **MULTI-CONTROL** up or down enables you to perform the equivalent operation.

3 Press the center of MULTI-CONTROL to display the content of the folder or play the selected file.

When a folder is selected, the content of the lower folder is displayed.
When a file is selected, it plays the selected file.

❒ Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.
❒ When a folder is selected, the first file of the selected folder is played by pressing and holding the center of **MULTI-CONTROL**.
❒ When the lower folder is listed, the list returns to the upper folder by pressing **MULTI-CONTROL** left.
- If the root folder is listed, this operation is not available.

❒ The content of the root folder is displayed by pressing and holding **MULTI-CONTROL** left.
- If the root folder is listed, this operation is not available.

Setting a repeat play range

● **Touch repeatedly until the desired repeat range indicator appears.**

- :
  Repeats just the current file.
- :
  Repeats the folder currently playing.
- No indicator (all repeat):
  Repeats all.

❒ If you perform returning to the root folder while the repeat play range is set to or , the repeat play range changes to all repeat automatically.

Playing files in random order

Files in a selected repeat range are played in random order.

● **Touch .**

Random play begins.
When you turn random play on, appears.

❒ To turn random play off, touch again.
❒ If you touch while the repeat play range is set to , the repeat play range changes to automatically and files will be played in random order.

Scanning folders and files

Scan play lets you hear the first 10 seconds of each file. Scan play is performed in the current repeat play range.

● **Touch .**

Scan play begins.
After completion of file or folder scanning, normal playback of the files will begin again.

❒ To turn scan play off, touch again.
❒ If you touch while the repeat play range is set to , the repeat play range changes to automatically and scanning files will begin.
❒ If you touch while the repeat play range is set to all, scan play is performed for only the first files of each folder.
❒ If you skip a file forward, backward, or return to the root folder during scan play, the scan play is automatically canceled.
❒ If you touch during scan play, the scan play is automatically canceled and playback of the current file will be repeated.

❒ If you touch during scan play, the scan play is automatically canceled and files will be played in random order.

Playback and Pause

● **Touch .**

Playback of the current file pauses, and "**Pause**" is displayed.

❒ To turn pause off, touch again.

Using Sound Retriever

Sound Retriever function automatically enhances compressed audio and restores rich sound.

● **Touch [S.Rtrv] repeatedly to select the desired setting.**

Each touch of [**S.Rtrv**] changes the settings as follows:

- :
  Sound Retriever function (level 1) is activated.
- :
  Sound Retriever function (level 2) is activated.
- No indicator:
  Sets to off.

❒ "**S.Rtrv2**" has a stronger effect than "**S.Rtrv1**" and is more effective when playing back highly compressed audio data.

Using the USB interface cable for iPod enables you to connect your iPod to the navigation system.

❒ A USB interface cable for iPod (CD-IU50) (sold separately) is required for connection.

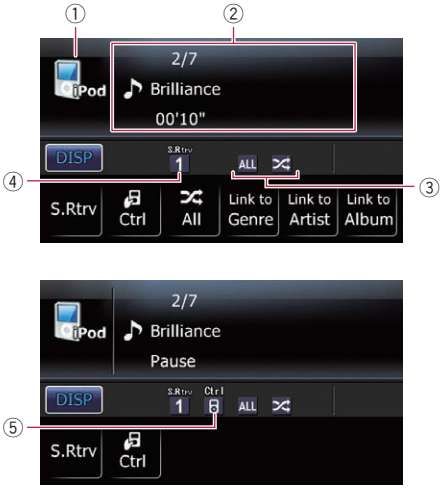
1 Connect your iPod.

➲ For detailed operations, refer to Operation Manual for AVIC-U310BT.

2 Press the SRC/OFF button to display the "iPod" screen.

➲ For details, refer to *Switching the audio source* on page 75.

Reading the screen



① **Source icon**
Shows which source has been selected.

② **Text display area**

- **Song number**
  Shows the number of the song currently playing and total number of songs in the selected list.
- **Play time**
  Shows the elapsed playing time within the current song.
- **: Song title (episode)**
  Shows the title of the current song. When a podcast is played, the episode is displayed.
- **: Artist name**
  Shows the artist name for the current song.
- **: Album title (podcast title)**
  Shows the title of the album of the current song.
  When a podcast is played, the podcast title is displayed.

③ **Playback condition indicator**
Indicates the current playback condition.

Setting a repeat play range

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

Setting the shuffle play for music

Indicator:	Meaning
No indicator	Cancels the shuffle play.
	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.

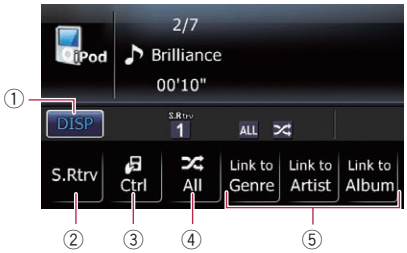
④ **Sound Retriever indicator**

➲ For details, refer to ***Using Sound Retriever*** on page 97.

⑤ **iPod control mode indicator**

➲ For details, refer to *Operating the functions from your iPod* on page 97. ■

Using the touch panel keys



① DISP:
Switches the combination of displayed items in the text display area.

② **S.Rtrv**:
Sets Sound Retriever function.
➲ For details, refer to ***Using Sound Retriever*** on page 97.

③ **Ctrl**:
Sets iPod control mode.
➲ For details, refer to *Operating the functions from your iPod* on page 97.

④ **All**:
Sets shuffle all.
➲ For details, refer to *Playing all songs in random order (shuffle all)* on page 97.

⑤ **Link to Genre**:
Link to Artist:
Link to Album:
Starts playing the list of songs related to the currently playing song.
➲ For details, refer to *Playing songs related to the currently playing song* on the next page.

Operating by hardware buttons

Pressing MULTI-CONTROL right
Skips to the start of the next song.

Pressing and holding MULTI-CONTROL right
Performs fast forward.

Pressing MULTI-CONTROL left
Skips to the start of the current song. Pressing it twice continuously will skip to the previous song.

Pressing and holding MULTI-CONTROL left
Performs fast reverse.

Pressing the center of MULTI-CONTROL
The function select screen appears.

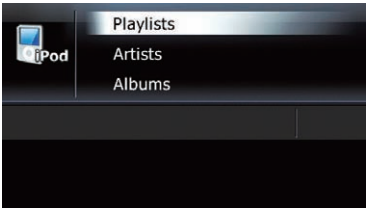
Pressing the LIST button
Shows the list to select a song.
➲ For details, refer to *Selecting a song from the list* on this page.

Selecting a song from the list

Selecting the item on list allows you to search for a song and play it in your iPod.

1 Press the LIST button to display the top category menu.
❒ To return to the previous screen, press the **BAND/ESC** button.

2 Turn MULTI-CONTROL to select a category.



- **Playlists** (playlists)
- **Artists** (artists)
- **Albums** (albums)
- **Songs** (songs)
- **Podcasts** (podcasts)
- **Genres** (genres)
- **Composers** (composers)
- **Audiobooks** (audiobooks)

❒ Pressing **MULTI-CONTROL** up or down enables you to perform the equivalent operation.

3 Press the center of MULTI-CONTROL to narrow down the content of the category.
When a category is selected, the content of the category will be narrowed down.
When a song is selected, it plays the selected song.

❒ Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.
❒ When a category is selected, the first song of the selected category is played by pressing and holding the center of **MULTI-CONTROL**.
  • Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.
❒ When the lower tier of items are listed, the list returns to the uppermost tier of items by pressing and holding **MULTI-CONTROL** left.
  • If the uppermost tier of items are listed, this operation is not available.
❒ Selecting "**All**" on the list displays all options in the current category. For example, if you select "**All**" after selecting "**Artists**", you can proceed to the next screen with all artists in the list selected.

4 On the song (or episode) list, press the center of MULTI-CONTROL to play the selected song (or episode).

Searching for applicable items alphabetically

Using the search control displays the page which includes the first applicable option.

❒ This function is available for the alphabetical list only.

1 Press the LIST button to display the top category menu.

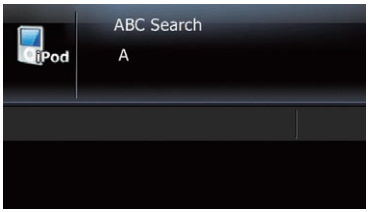
❒ To return to the previous screen, press the **BAND/ESC** button.

2 Turn MULTI-CONTROL to display the desired category.

3 Press the center of MULTI-CONTROL to confirm the selected item.
The lower categories are displayed.

4 Press the LIST button to change the search mode to alphabetical search.

5 Turn MULTI-CONTROL to select the desired character.



6 Press the center of MULTI-CONTROL to begin a search.

❒ An article listed below and space at the beginning of the artist name will be ignored and the next character will be taken into account for searching.
  • "A" or "a"
  • "AN", "An", or "an"
  • "THE", "The", or "the"
❒ If alphabetical search is aborted, **Not Found** is displayed.

7 On the song (or episode) list, press the center of MULTI-CONTROL to play the selected song (or episode).

Playing songs related to the currently playing song

You can play songs related to the currently playing song, using of the following lists.

- Album list of currently playing genre
- Album list of currently playing artist
- Song list of currently playing album

❒ Depending on the number of files in the iPod, there may be a delay when displaying a list.

● **Touch [Link to Genre], [Link to Artist], or [Link to Album] to select a search mode.**

- **Link to Genre**:
  Plays the album of currently playing genre.
- **Link to Artist**:
  Plays the album of currently playing artist.
- **Link to Album**:
  Plays the song of currently playing album.

"**Searching**" flashes while searching the list and then the playback of the list starts.

❒ The link play mode is canceled by pressing the **BAND/ESC** or **LIST** button when "**Searching**" flashes.

❒ If the related albums or songs are not found, **Not Found** is displayed.

Playing all songs in random order (shuffle all)

● **Touch All to turn shuffle all on.**

All songs on the iPod will play randomly.

❒ To turn shuffle all off, set "**Shuffle Mode**" in the "**Function Menu**" screen to off.

➲ For details, refer to *Playing songs in random order (shuffle)* on the next page.

Operating the functions from your iPod

You can control the functions by using iPod itself while iPod is connected to the navigation system. Sound can be heard from the car's speakers, and operation can be conducted from your iPod.

While the control mode is set to iPod (), you can operate iPod function from the connected iPod.

This function can be operated with the following iPod models:

- iPod nano second generation
- iPod nano third generation
- iPod nano fourth generation
- iPod classic
- iPod touch first generation
- iPod touch second generation
- iPhone
- iPhone 3G
- iPhone 3GS

❒ While this function is in use, even if the ignition key is turned off, the iPod will not be turned off. To turn off power, operate the iPod.

1 Touch Ctrl to switch the control mode.

Each touch of **Ctrl** changes the settings as follows:

- :
  This navigation system's iPod function can be operated from the connected iPod.
- No indicator:
  This navigation system's iPod function can be operated from this navigation system.

2 When you select , operate the connected iPod to select a song and play.

❒ Switching the control mode to pauses song playback. Operate the iPod to start playback.

❒ Even if the control mode is set to , following functions are available from this navigation system.

- Adjusting the volume
- Fast reverse or forward
- Skip forward or backward
- Playback and Pause
- Sound Retriever

Using Sound Retriever

Sound Retriever function automatically enhances compressed audio and restores rich sound.

● **Touch [S.Rtrv] repeatedly to select the desired setting.**
Each touch of [**S.Rtrv**] changes the settings as follows:
- S.Rtrv 1:
  Sound Retriever function (level 1) is activated.
- S.Rtrv 2:
  Sound Retriever function (level 2) is activated.
- No indicator:
  Sets to off.

❒ "**S.Rtrv2**" has a stronger effect than "**S.Rtrv1**" and is more effective when playing back highly compressed audio data.■

Using the function menu

1 Display the "Function Menu" screen.
➲ For details of the operation, refer to *Displaying the "**Function Menu**" screen* on page 77.

2 Turn MULTI-CONTROL to select a function.
Turning **MULTI-CONTROL** switches between the functions in the following order:
Play Mode (play mode) — **Shuffle Mode** (shuffle mode) — **Pause** (pause) — **Audiobooks** (audiobooks)

❒ Only **Pause** is available while the control mode is set to iPod (6).
➲ For details, refer to *Operating the functions from your iPod* on the previous page.■

Setting a repeat play range

1 Display the "Function Menu" screen.
➲ For details of the operation, refer to *Displaying the "**Function Menu**" screen* on page 77.

2 Turn MULTI-CONTROL to select "Play Mode".

3 Press the center of MULTI-CONTROL to set.
Each press of **MULTI-CONTROL** changes the settings as follows:
- **Repeat All**:
  Repeats all songs in the selected list.
- **Repeat One**:
  Repeats just the current song.

❒ Icons below are displayed as the repeat play indicator.
When the setting is "**Repeat All**", ALL appears.
When the setting is "**Repeat One**", ONE appears.■

Playing songs in random order (shuffle)

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

1 Display the "Function Menu" screen.
➲ For details of the operation, refer to *Displaying the "**Function Menu**" screen* on page 77.

2 Turn MULTI-CONTROL to display "Shuffle Mode".

3 Press the center of MULTI-CONTROL to set.
Each press of **MULTI-CONTROL** changes the settings as follows:
- **Shuffle Off**:
  Plays back songs in normal order.
- **Shuffle Songs**:
  Plays back songs in random order within the selected list.
- **Shuffle Albums**:
  Selects an album randomly, and then plays back all songs in that album in order.■

Playback and Pause

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to select "Pause".

3 Press the center of MULTI-CONTROL to set.

4 Press the center of MULTI-CONTROL to switch between "On" and "Off".

Setting the audiobook play speed

While listening to an audiobook on iPod, playback speed can be changed.

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to display "Audiobooks".

3 Press the center of MULTI-CONTROL repeatedly until the desired setting appears in the display.

Each press of **MULTI-CONTROL** changes the settings as follows:

- **Normal**:
  Plays back audiobooks in normal speed.
- **Faster**:
  Plays back audiobooks faster than normal speed.
- **Slower**:
  Plays back audiobooks slower than normal speed.

You can use the navigation system to control an XM satellite digital tuner, which is sold separately.
For details concerning operation, refer to the XM tuner's operation manuals. This section provides information on XM operations with the navigation system which differs from that described in the XM tuner's operation manual.

The following XM satellite digital tuner units cannot be connected:
GEX-P900XM, GEX-P910XM

Reading the screen

Channel mode

Category mode

① **Source icon**
Shows which source has been selected.

② **Text display area**

- **Band**
  Shows the XM band that has been selected.
- **Channel number indicated next to "CH"**
  Shows the XM channel number the tuner is currently tuned to.
- **Preset number indicated next to "P.CH"**
  Shows what preset item has been selected.
- **Detail information**
  Shows the detailed information of the broadcast channel currently being received.
- **Artist name**
  Shows the artist name for the current song.
- **Song title**
  Shows the title of the current song and program.
- **Category name**
  Shows the category of broadcast channel.

③ **XM channel select mode indicator**
Shows what channel select mode has been selected. You can select a channel from all channels in **Channel** mode, and select a channel from selected category in **Category** mode.

➲ For details, refer to *Switching the XM channel select mode* on the next page.

Using the touch panel keys

① DISP:
Switches the combination of displayed items in the text display area.

② SAT:
Switching the XM channel select mode.
➲ For details, refer to *Switching the XM channel select mode* on this page.

③ P1 to P6:
Recalls channels from the preset.
➲ For details, refer to *Storing and recalling broadcast stations* on this page.

Operating by hardware buttons

Pressing the BAND/ESC button
Band can be selected from among **XM1**, **XM2**, or **XM3**. This is useful for switching the preset item.

Pressing MULTI-CONTROL up or down
During **Channel** mode:
You can recall radio stations assigned to preset tuning keys P1 to P6.
During **Category** mode:
The categories move up or down one at a time.

Pressing MULTI-CONTROL left or right
During **Channel** mode:
The channels move up or down one at a time.
During **Category** mode:
The channels move up or down one at a time within a selected category.

Pressing and holding MULTI-CONTROL left or right
During **Channel** mode:
You can skip the broadcasting channels.
During **Category** mode:
You can skip the broadcasting channels within a selected category.

Pressing the center of MULTI-CONTROL
The function select screen appears.

Storing and recalling broadcast stations

With a touch of any of the preset tuning keys (P1 to P6), you can easily store up to six broadcast channels for later recall (also with the touch of a key).

1 Select the channel that you want to store in memory.

2 Keep touching a preset tuning key P1 to P6 until the XM preset number (e.g., P.CH1) stops flashing.
The selected station has been stored in memory.
❒ Up to 18 stations, six for each of three XM bands can be stored in memory.

3 Touch the same preset tuning key P1 to P6.
The stations are recalled from memory.
❒ You can also press **MULTI-CONTROL** up or down to recall radio stations assigned to preset tuning keys P1 to P6.

Switching the XM channel select mode

You have two methods for selecting a channel: by number and by category. When selecting by number, channels in any category can be selected. Select by category to narrow your search down to only channels in a particular category.

- **Touch SAT repeatedly to set the desired channel select mode.**

The setting is changed as follows:

- Channel: **Channel mode**
  You can select a channel from all channels when you operate this function.
- Category: **Category mode**
  You can select a channel within a selected category that you operate this function.

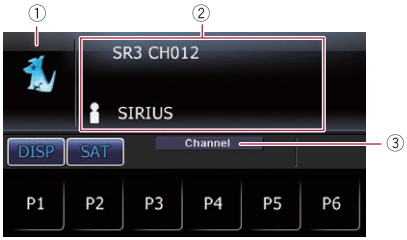
Using the SIRIUS tuner

You can use the navigation system to control a Pioneer Sirius Satellite Radio tuner, which is sold separately.
For details concerning operation, refer to the SIRIUS tuner's operation manuals. This section provides information on SIRIUS operations with navigation system which differs from that described in the SIRIUS tuner's operation manual.

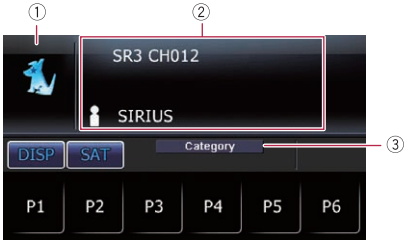
❒ When you use the SiriusConnect universal tuner (sold separately) with this navigation system, Pioneer SIRIUS BUS INTERFACE is required. For details concerning operation, refer to the owner's manual of Pioneer SIRIUS BUS INTERFACE and SiriusConnect universal tuner.

Reading the screen

Channel mode



Category mode



Instant Replay mode

① **Source icon**
Shows which source has been selected.

② **Text display area**

- **Band**
  Shows the SIRIUS band that has been selected.
- **Channel number indicated next to "CH"**
  Shows the SIRIUS channel number that the tuner is tuned to.
- **Preset number indicated next to "P.CH"**
  Shows what preset item has been selected.
- **Play time**
  Shows the elapsed playing time within the stored broadcast.
  ❒ Play time is displayed during the "**Instant Replay**" mode.
- : **Channel name**
  Shows the channel name of broadcast channel.
- : **Category name**
  Shows the category of broadcast channel.
- : **Artist name**
  Shows the artist name for the current song.
- : **Song title and program title**
  Shows the title of the current song and program.
- : **Composer name indicator**
  Shows the composer name of the song currently playing.

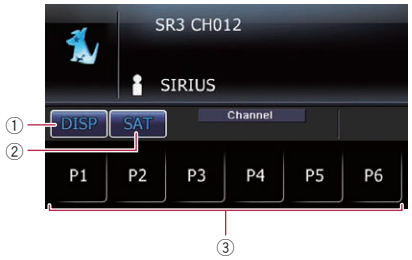
③ **SIRIUS channel select mode indicator**

Shows what channel select mode has been selected. You can select a channel from all channels in **Channel** mode, and select a channel from the selected category in **Category** mode.

➲ For details, refer to *Switching the SIRIUS channel select mode* on the next page.

④ **Instant Replay mode indicator**
Shows when the "**Instant Replay**" mode is on.

Using the touch panel keys



① DISP:
Switches the combination of displayed items in the text display area.
Each touch of DISP changes the display information.

❒ Touching and holding DISP scrolls displayed information.

② SAT:
Switching the SIRIUS channel select mode.

➲ For details, refer to *Switching the SIRIUS channel select mode* on the next page.

③ P1 to P6:
Recalls channels from the preset.

➲ For details, refer to *Storing and recalling broadcast stations* on this page.

Operating by hardware buttons

Pressing the BAND/ESC button
Band can be selected from among **SR1**, **SR2**, or **SR3**. This is useful for switching the preset item.

Pressing MULTI-CONTROL up or down
During **Channel** mode:
You can recall radio stations assigned to preset tuning keys P1 to P6.
During **Category** mode:
The categories move up or down one at a time.

Pressing MULTI-CONTROL left or right
During **Channel** mode:
The channels move up or down one at a time.
During **Category** mode:
The channels move up or down one at a time within a selected category.

Pressing and holding MULTI-CONTROL left or right
You can skip the broadcasting channels.

Pressing the center of MULTI-CONTROL
The function select screen appears.

Storing and recalling broadcast stations

With a touch of any of the preset tuning keys (P1 to P6), you can easily store up to six broadcast channels for later recall (also with the touch of a key).

1 Select the channel that you want to store in memory.

2 Keep touching a preset tuning key P1 to P6 until the SIRIUS preset number (e.g., P.CH1) stops flashing.
The selected station has been stored in memory.

❒ Up to 18 stations, six for each of three SIRIUS bands can be stored in memory.

3 Touch the same preset tuning key P1 to P6.

The station is recalled from memory.

❒ You can also press **MULTI-CONTROL** up or down to recall radio stations assigned to preset tuning keys P1 to P6. ■

Switching the SIRIUS channel select mode

You have two methods for selecting a channel: by number and by category. When selecting by number, channels in any category can be selected. Select by category to narrow your search down to only channels in a particular category.

● **Touch SAT repeatedly to set the desired channel select mode.**

The setting is changed as follows:

- Channel: **Channel mode**
  You can select a channel from all channels when you operate this function.
- Category: **Category mode**
  You can select a channel within a selected category that you operate this function. ■

Using the "Instant Replay" function

The "**Instant Replay**" function allows you to replay the stored broadcast on Pioneer SIRIUS BUS INTERFACE (if Pioneer SIRIUS BUS INTERFACE capable for this function). As soon as you tune to a channel, Pioneer SIRIUS BUS INTERFACE automatically begins storing the broadcast. It can store approximately up to 44 minutes previous (depending on the selected channel and the memory capacity of Pioneer SIRIUS BUS INTERFACE).

1 Touch and hold SAT on the SIRIUS screen to activate the "Instant Replay" mode.

❒ It begins replaying the stored broadcast on the SIRIUS tuner.

❒ To cancel the "**Instant Replay**" mode, press **BAND/ESC** button.

2 Use MULTI-CONTROL or touch panel keys on the screen for "Instant Replay".

▪ Pressing **MULTI-CONTROL** right

Forwards play to the next song or program.

▪ Pressing and holding **MULTI-CONTROL** right

Performs fast forward.

▪ Pressing **MULTI-CONTROL** left

Returns to the start of the current song or program. Pressing again will skip back to the previous song or program.

▪ Pressing and holding **MULTI-CONTROL** left

Performs fast reverse.

▪ Touching ▶/II

Switches between playback and pause.

❒ During "**Instant Replay**" mode, each touch of DISP changes the display information as follows;

Time position — Channel number — Channel name — Channel category — Artist name/feature — Song/program title — Composer

❒ You cannot replay the broadcast prior to the beginning of stored data.

Using the function menu

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to select a function.

Turning **MULTI-CONTROL** switches between the functions in the following order:
Game Alert (game alert setting) — **Team Setting** (team setting) — **Game Info** (game information)

Using the Game Alert function

Selecting teams for Game Alert

This navigation system can alert you when games involving your favorite sports teams are about to start. To use this function you need to store the teams you want to follow in advance.

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to display "Team Setting".

3 Press MULTI-CONTROL left or right to select a desired league.

League names are switched in the display.

4 Press the center of MULTI-CONTROL to store the selected league in memory.

The game alert function will start on that league.

❒ To turn the Game Alert off of the selected league, press the center of **MULTI-CONTROL** again.

5 Press MULTI-CONTROL up or down to select a desired team.

Teams in the selected category are switched in the display.

6 Press the center of MULTI-CONTROL to store the selected team in memory.

The game alert function will start on that team.

❒ To turn the Game Alert off of the selected team, press the center of **MULTI-CONTROL** again.

7 Repeat these steps for selecting other teams.

Switching the Game Alert on or off

Once you made team selections, you need to turn the Game Alert function on.

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to display "Game Alert".

3 Press the center of MULTI-CONTROL to switch between "On" and "Off".

When a game involving one of your favorite teams is broadcast

When a game of the selected team is about to start (or is currently playing) on a different station or when the power of this navigation system turns on, an alert is displayed. Press and hold the center of **MULTI-CONTROL** to switch to that station, and you can listen to that game.

- ❒ If you do not operate the function within about 10 seconds, the display is automatically returned.
- ❒ To cancel the alert, press **BAND/ESC** button.
- ❒ Alerts may not be available depending on the status of the navigation system.

Displaying Game Information

If games of your selected teams are currently playing, you can display information of the games and tune to the broadcast channel.

- ❒ The game information function is available when teams and leagues are registered while the "**Game Alert**" setting is "**On**".

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to display "Game Info".

The game information of your selected team is displayed.

3 Press MULTI-CONTROL up or down to select a game.

- ❒ The game score will be updated automatically.

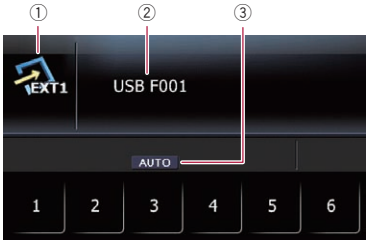
4 Press the center of MULTI-CONTROL to switch to that station to listen to the game.

- ❒ If you have not made any team selections, a message appears.
- ❒ When no games involving your favorite teams are currently being played, a message appears.

The term “external unit” refers to future Pioneer devices that are not currently planned for, or to devices that allow control of basic functions although they are not fully controlled by the navigation system. Two external units can be controlled by this navigation system. When two external units are connected, the navigation system allocates them as external unit 1 or external unit 2.
For details of the connection method, refer to Installation Manual.
For details of the operation, refer to the external unit’s operation manual. This section provides information on external unit operations with the navigation system that differ from those described in the external unit’s operation manual.

❒ Operation varies depending on the external unit connected. (In some cases, the external unit may not respond.)

Reading the screen



① **Source icon**
Shows which source has been selected.

② **External unit indicator**
Displays the information that is sent by connected external units.

③ **Auto/Manual mode indicator**
Shows the current mode.■

Using the touch panel keys

① The external unit can be operated by transmitting the operating commands set to “**1**” key through “**6**” key.

❒ Operation varies depending on the external unit connected. (In some cases, some functions may not be used until you touch and hold the key.)■

Operating by hardware buttons

Pressing the BAND/ESC button

You can send a band command to the external unit.

❒ Operation varies depending on the external unit connected. (In some cases, the external unit may not respond.)

Pressing MULTI-CONTROL up, down, left or right

You can operate the external unit.

❒ Operation varies depending on the external unit connected. (In some cases, some functions may not be used until you touch and hold the key.)

Pressing the center of MULTI-CONTROL

The function select screen appears.■

Using the function menu

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL to select a function.

Turning **MULTI-CONTROL** switches between the functions in the following order:
Function1 (function 1) — **Function2** (function 2) — **Function3** (function 3) — **Function4** (function 4) — **Auto/Manual** (auto/manual)■

Operate the external unit by using "Function1" — "Function4"

The external unit can be operated by transmitting the operating commands set to "**Function1**" through "**Function4**".

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

2 Turn MULTI-CONTROL until the desired setting appears in the display.

3 Press the center of MULTI-CONTROL to set.

- ❒ The operating commands set to "**Function1**" through "**Function4**" vary depending on the external unit.
- ❒ Some functions may not be used until you touch and hold the key.■

Switches between automatic and manual function

1 Display the "Function Menu" screen.

➲ For details of the operation, refer to *Displaying the "***Function Menu***" screen* on page 77.

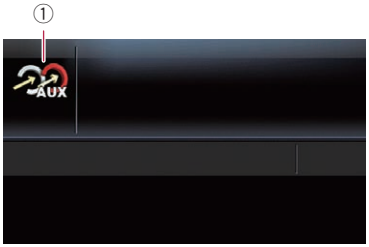
2 Turn MULTI-CONTROL until "Auto/Manual" appears in the display.

3 Pressing the center of MULTI-CONTROL switches between "Auto" and "Manual".

- ❒ Operating commands set for "**Auto**" and "**Manual**" operations vary depending on the external unit connected.■

A stereo mini plug cable lets you connect your navigation system to auxiliary equipment. For more details, refer to the stereo mini plug cable owner's manual.

Reading the screen



① **Source icon**
Shows which source has been selected.

Selecting "AUX" as the source

1 Turn on the "AUX" source.

➲ For details, refer to *Switching the auxiliary setting* on page 121.

2 Press the SRC/OFF button to display the "AUX" screen.

➲ For details, refer to *Switching the audio source* on page 75.

Displaying the "Settings Menu" screen

1 Touch [Home] on the map screen.
The "**Top Menu**" screen appears.

2 Touch [Settings].
The "**Settings Menu**" screen appears.

3 Touch the desired option.
❒ Touching ▶ or ◀ on the right of screen allows you to see the next or previous page.

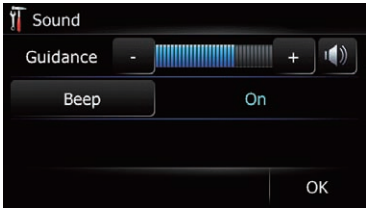
Setting the volume for navigation system

The sound volume for the navigation can be set.

1 Display the "Settings Menu" screen.
➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on this page.

2 Touch [Sound].
The "**Sound**" screen appears.

3 Touch [+] or [–] next to "Guidance".



Controls the master volume of both the navigation guidance and beep.
When set to 🔊, guidance is output. When set to 🔇, no guidance is output.

■ Touch [**Beep**].
Each time you touch the key changes the setting.
- **On** (default):
  A beep sounds.
- **Off**:
  The beep sound is muted.

Customizing the regional settings

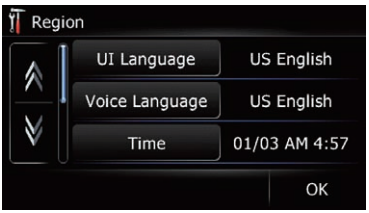
Selecting the language

You can set the languages used on the program and voice guidance. Each language can be set separately.

1 Display the "Settings Menu" screen.
➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on this page.

2 Touch [Region].
The "**Region**" screen appears.

3 Touch [UI Language].



The "**Select UI Language**" screen appears.

4 Touch the desired language.
After the language is selected, the previous screen returns.

5 Touch [Voice Language].
The "**Voice Language Selection**" screen appears.

6 Touch the desired language.
After the language is selected, the previous screen returns.

7 Touch [OK] on the "Region" screen.
The navigation system restarts.

Setting the time difference

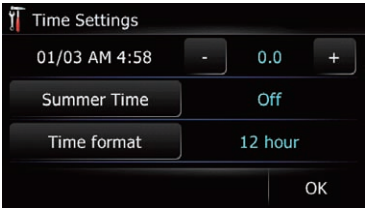
Adjusts the system's clock. Set the time difference (**+**, **–**) from the time originally set in your navigation system.

1 Display the "Settings Menu" screen.
➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on the previous page.

2 Touch [Region].
The "**Region**" screen appears.

3 Touch [Time].
The "**Time Settings**" screen appears.

4 To set the time difference, touch [+] or [–].



The time difference between the time originally set in the navigation system (Pacific Standard Time) and the current location of your vehicle is shown. If necessary, adjust the time difference. Touching [**+**] or [**–**] changes the time difference display in half-hour increments.
The time difference can be set from "**–4**" to "**+9**" hours.

5 Touch [Summer Time].
If necessary, set to summer time.
Summer time setting is off by default. Touch [**Summer Time**] to change the setting if you are in the summer time period.

6 Touch [Time format].
Each time you touch the key changes the setting.
- **12 hour** (default):
  Changes the display to 12-hour format with am/pm.
- **24 hours**:
  Changes the display to 24-hour format.

Changing the unit between km and miles

This setting controls the unit of distance and speed displayed on your navigation system.

1 Display the "Settings Menu" screen.
➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on the previous page.

2 Touch [Region].
The "**Region**" screen appears.

3 Touch [km / mile].
Each time you touch the key changes the setting.
- **mile** (default):
  Shows distance in miles.
- **Mile&Yard**:
  Shows distance in miles and yards.
- **km**:
  Shows distance in kilometers.

Changing the virtual speed of the vehicle

When calculating the expected time of arrival and the travel time to the destination, set the average speed for the freeway or ordinary roads using [**+**] and [**–**].
❒ Changing "**km / mile**" settings clears and resets input values to the default setting.

➲ For details, refer to *Changing the unit between km and miles* on the previous page.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [Region].

The "**Region**" screen appears.

3 Touch [Speed].

The "**Average Speed Settings**" screen appears.

4 Touch [+] or [–] to set the speed.

❒ The estimated time of arrival may not be taken into account other parameters than this speed value.

5 Touch [OK].

The settings are complete.

Setting the keyboard layout

You can select the type of keyboard to be used for inputting characters.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [Region].

The "**Region**" screen appears.

3 Touch [Keyboard].

Each time you touch the key changes the setting.

- [**QWERTY**] (default):

- [**QWERTZ**]:

- [**AZERTY**]:

- [**ABC**]:

■

Customizing the map screen settings

The general settings related with a map screen can be customized.

Displaying POI on the map

Displays icons for the surrounding facilities (POI) on the map.

❒ POI icons are not displayed when the map scale is 1 mile (2 kilometers) or more.

❒ You can select up to 10 items from the subcategories or detailed categories.

❒ Creating a customized POI is possible by using the utility program "AVIC FEEDS" which is available separately, on your PC. ("AVIC FEEDS" will be available on our website.) Store the customized POI into the SD memory card properly, and then insert it to the SD card slot. By selecting the POI icon, the system displays it on the map screen.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

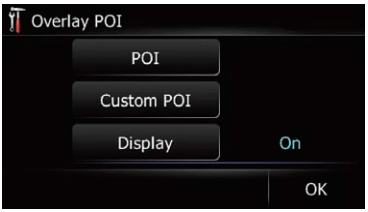
2 Touch [Map].

The map setting screen appears.

3 Touch [Overlay POI].

The "**Overlay POI**" screen appears.

4 Touch [Display] to change the setting to "On".



❒ If you do not want to display the POI icon on the map, touch [**Display**] to turn it "**Off**". (Even if "**Display**" is turned "**Off**", the POI selection setting is retained.)

5 Touch [POI].

The "**Overlay POI (Main Category)**" screen appears.

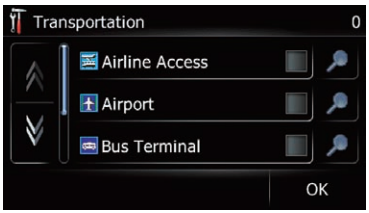
❒ Categories that are already set will have a blue check mark.

6 Touch the main category you want.

A list of subcategories under the selected main category appears.

❒ Categories that are already selected will have a blue check mark.

7 Touch the subcategory to display.



A red check mark appears next to the selected category. To cancel the selection, touch the entry again.

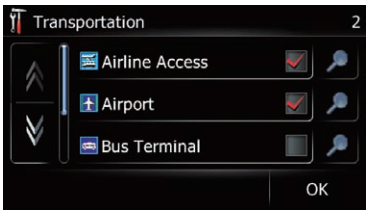
If there are more detailed categories within the subcategory, is active. If you select the subcategory that has more detailed categories, all detailed categories within the subcategory is selected and becomes inactive.

▪ Touch .

The detailed category list is displayed. Touch the item and touch [**OK**] to complete selecting the detailed categories you want to display.

❒ When only a few detailed categories are selected, a blue check mark will appear next to the selected subcategory.

8 Touch [OK].



The "**Overlay POI (Main Category)**" screen returns.
If you want to select or deselect other items, repeat these steps as many as necessary.

9 To finish the selection, touch [OK] in the "Overlay POI (Main Category)" screen.

Switching the map between 2D and 3D

❒ You can touch 2D or 3D on the map screen to switch between 2D and 3D.
➲ For details of the operations, refer to *Switching the map between 2D and 3D* on page 31.

1 Display the "Settings Menu" screen.
➲ For details of the operations, refer to *Displaying the "Settings Menu" screen* on page 111.

2 Touch [Map].
The map setting screen appears.

3 Touch [View Mode].
Each time you touch the key changes the setting.
- **2D** (default):
  Displays the 2D map screen.
- **3D**:
  Displays the 3D map screen.

Displaying maneuvers

Selects whether to display or hide maneuvers on the map.

➲ For details, refer to *How to read the map screen* on page 28.

1 Display the "Settings Menu" screen.
➲ For details of the operations, refer to *Displaying the "Settings Menu" screen* on page 111.

2 Touch [Map].
The map setting screen appears.

3 Touch [Show Maneuver].
Each time you touch the key changes the setting.
- **View** (default):
  Displays maneuvers on the map.
- **Hide**:
  Hides maneuvers on the map.

Changing the setting of navigation interruption screen

You can set whether to automatically switch to the navigation screen from the AV screen when your vehicle approaches a guidance point such as an intersection.

1 Display the "Settings Menu" screen.
➲ For details of the operations, refer to *Displaying the "Settings Menu" screen* on page 111.

2 Touch [Map].
The map setting screen appears.

3 Touch [AV Guide Mode].
Each time you touch the key changes the setting.
- **On** (default):
  Switches from the AV operation screen to the navigation screen.
- **Off**:
  Does not switch the screen.

❒ This setting is effective only when "**Close Up View**" is set to "**On**".

Setting the map color change between day and night

To improve the visibility of the map during the evening, you can set the timing for changing the combination of the map color.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [Map].

The map setting screen appears.

3 Touch [Day/Night Display].

Each time you touch the key changes the setting.

- **Automatic** (default):
  You can change the colors of a map between daytime and nighttime according to whether the vehicle lights are on or off.
- **Day**:
  The map is always displayed with daytime colors.

❒ To use this function with "**Automatic**", the orange/white lead of the navigation system must be connected correctly.

Changing the road color

You can set the road color to bluish or reddish.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [Map].

The map setting screen appears.

3 Touch [Road Color].

Each time you touch the key changes the setting.

- **Blue** (default):
  Changes to blue based road colors.
- **Red**:
  Changes to red based road colors.

Setting the auto-zoom display

This setting enables switching to an enlarged map around the point where your vehicle is approaching an intersection, entrance/exit of freeway or a junction.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [Map].

The map setting screen appears.

3 Touch [Close Up View].

Each time you touch the key changes the setting.

- **On** (default):
  Switches to an enlarged map.
  Displays the close up view with the 2D map.
- **Off**:
  Does not switch to an enlarged map.

Setting the "Favorites" icon display

You can select whether to display the "**Favorites**" icon on the map.

❒ "**Favorites**" icons are displayed when the map scale is 10 miles (20 kilometers) or less.

➲ For details, refer to *Editing the favorite location in the list* on page 49.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [Map].

The map setting screen appears.

3 Touch [Favorites Icon].

Each time you touch the key changes the setting.

- **On** (default):
  Displays the "**Favorites**" icon on the map.
- **Off**:
  Hides the "**Favorites**" icon on the map.

Setting the current street name display

Selects whether to display or hide the street name (or city name) that your vehicle is traveling along.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "**Settings Menu**" screen* on page 111.

2 Touch [Map].

The map setting screen appears.

3 Touch [Current Street].

Each time you touch the key changes the setting.

- **View** (default):
  Displays the street name (or city name) on the map.
- **Hide**:
  Hides the street name (or city name) on the map.

Displaying the fuel consumption information

Selects whether to display Eco-Meter, indicating the fuel consumption information, on the map.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "**Settings Menu**" screen* on page 111.

2 Touch [Map].

The map setting screen appears.

3 Touch [Eco Meter].

Each time you touch the key changes the setting.

- **On** (default):
  Displays Eco-Meter on the map.
- **Off**:
  Hides Eco-Meter on the map. ■

Setting the power-saving function

You can select the setting of the screen backlight to save the battery power.

❒ This setting can only be changed when the detachable device is removed from the head unit.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "**Settings Menu**" screen* on page 111.

2 Touch [Backlight Timeout].

Each time you touch the key changes the setting.

- **Never**:
  Deactivates the power-saving feature of the screen backlight.
- **30 sec** (default):
  Dims the backlight automatically if you do nothing for 30 seconds. ■

Checking the version information

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "**Settings Menu**" screen* on page 111.

2 Touch [Service Info].

The "**Service Information Screen**" screen appears.

3 Check the version information. ■

Registering and editing your home

When registering your home location, touch [**Set Home**].

➲ For details, refer to *Registering and editing your home* on page 51. ■

Correcting the current location

Touch the screen to adjust the current position and direction of the vehicle displayed on the map.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [Location].

3 Scroll to the position where you want to set, then touch [OK].

Checking the connections of leads

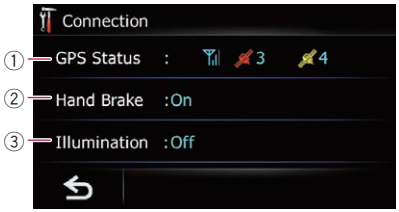
Check that leads are properly connected between the navigation system and the vehicle. Please also check whether they are connected in the correct positions.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [Connection].

The "**Connection**" screen appears.



① **GPS Status**

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

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

② **Hand Brake**

When the parking brake is applied, "**On**" is displayed. When the parking brake is released, "**Off**" is displayed.

③ **Illumination**

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

Adjusting the response positions of the touch panel (touch panel calibration)

If you feel that the touch panel keys on the screen deviate from the actual positions that respond to your touch, adjust the response positions of the touch panel screen.

❒ Make sure to use the supplied stylus for adjustment and gently touch the screen. If you press the touch panel forcefully, the touch panel may be damaged. Do not use a sharp pointed tool such as a ballpoint pen or a mechanical pen, which could damage the screen.

Stylus (supplied with the navigation system)

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [Calibrate].

A message confirming whether to start the calibration appears.

3 Touch and hold the target that point to the center and corners of the LCD screen.

The target indicates the order.

4 Touch anywhere on the screen.

The adjusted position data will be saved.

❒ Do not turn off the engine while saving the adjusted position data.

Adjusting the screen brightness

You can set the screen brightness for each of the following situations.

- When the detachable device is attached to the head unit and the vehicle lights are off.
- When the detachable device is attached to the head unit and the vehicle lights are on.
- When the detachable device is not attached to the head unit.

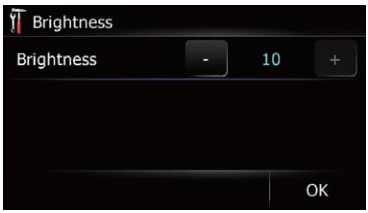
1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "**Settings Menu**" screen* on page 111.

2 Touch [Brightness].

The "**Brightness**" screen appears.

3 Touch [+] or [–] to adjust the brightness.



Each time you touch [**+**] or [**–**] increases or decreases the level. "**10**" to "**0**" is displayed as the level is increased or decreased.

4 Touch [OK].

The adjustment is completed.

Recording your travel history

Activating the track logger enables you to record your driving history (called "track log" below). You can review the travel history later.

❒ If an SD memory card is inserted into the SD card slot, the track logs will be stored in the SD memory card.

❒ When the detachable device is removed from the head unit, this function is not available.

1 Insert an SD memory card into the SD card slot.

2 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "**Settings Menu**" screen* on page 111.

3 Touch [Drive Log].

The "**Drive Log**" screen appears.

4 Touch [Drive Log].

Each time you touch the key changes the setting.

- **On**:
  You can store your track log to the SD memory card.
- **Off** (default):
  You cannot export your track log to the SD memory card.

5 Touch [Type].

Each time you touch the key changes the setting.

- **Private** (default):
  Changes the track log attribute to "**Private**".
- **Business**:
  Changes the track log attribute to "**Business**".
- **Other**:
  Changes the track log attribute to "**Other**".

❒ While the setting is "**On**", the navigation system continues to store the track logs in the inserted SD memory card.

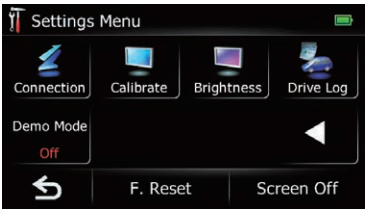
Using the demonstration guidance

This is a demonstration function for retail stores. After a route is set, touching this key starts the simulation of route guidance.

1 Display the "Settings Menu" screen.

➲ For details of the operations, refer to *Displaying the "**Settings Menu**" screen* on page 111.

2 Touch [Demo Mode].



Each time you touch the key changes the setting.

- **On**:
  Repeats the demonstration guidance.
- **Off** (default):
  The demonstration guidance is set off.■

Restoring the default setting

Resets various settings registered to the navigation system and restores them to the default or factory settings.

❒ Some data remains. Be sure to read *Setting items to be deleted* first.
➲ For detailed information about the items which would be erased, refer to *Setting items to be deleted* on page 129.

1 Display the "Settings Menu" screen.
➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [F. Reset].
The message confirming whether to restore the settings appears.

3 Touch [Yes].■

Turning off the screen

By turning off the backlight of the LCD screen, you can turn off the screen display without turning off the voice guidance.

1 Display the "Settings Menu" screen.
➲ For details of the operations, refer to *Displaying the "***Settings Menu***" screen* on page 111.

2 Touch [Screen Off].
The screen is turned off.
❒ Touch anywhere on the screen to turn it back on.■

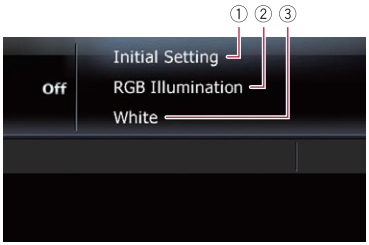
Displaying the "Initial Setting" screen

To customize the initial settings, display the "**Initial Setting**" screen.

1 Press the MODE button when the map of the current location is displayed.
The audio operation screen appears.

2 Press and hold the SRC/OFF button until the audio source turns off.
➲ For details, refer to *Switching the audio source* on page 75.

3 Press the center of MULTI-CONTROL and hold until the initial setting screen appears.



① **Screen title**
② **Function currently selected**
③ **Setting value**

4 Turn MULTI-CONTROL to select one of the initial settings.
Turning **MULTI-CONTROL** switches between the functions in the following order:
RGB Illumination (illumination setting) — **AUX** (auxiliary input) — **S/W Control** (subwoofer controller) — **Preout** (rear output controller) — **Guidance** (sound muting/attenuation)■

Setting the illumination color

The illumination color can be selected from 10 different colors. Furthermore, the illumination color can be switched between these 10 colors in order.

1 Display the "Initial Setting" screen.

➲ For details, refer to *Displaying the "**Initial Setting**" screen* on the previous page.

2 Turn MULTI-CONTROL to select "RGB Illumination".

3 Press MULTI-CONTROL left or right to select the desired color.

White (white) — **Light Green** (light green) — **Green** (green) — **Light Blue** (light blue) — **Blue** (blue) — **Yellow** (yellow) — **Amber** (amber) — **Red** (red) — **Scan** (scan) — **Custom** (custom)

- **Scan**:
  Shifts between the eight default colors in sequence gradually.
- **Custom**:
  Sets your created color which is installed from SD memory card as the illumination color.

Switching the auxiliary setting

It is possible to use auxiliary equipment with the navigation system as the one of sources. Activate the auxiliary setting when using auxiliary equipment connected to the navigation system.

1 Display the "Initial Setting" screen.

➲ For details, refer to *Displaying the "**Initial Setting**" screen* on the previous page.

2 Turn MULTI-CONTROL to select "AUX".

3 Press the center of MULTI-CONTROL to switch between "On" and "Off".

Setting the rear output and subwoofer controller

The navigation system's rear output can be used for a full-range speaker or subwoofer connection. If you switch "**S/W Control**" to "**Rear SP:S/W**", you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

Initially, the navigation system is set for a rear full-range speaker connection ("**Rear SP:F.Range**").

❒ Both rear speaker leads output and RCA rear output are switched simultaneously in this setting. (When you use the product without RCA rear output, this setting only applies to the rear speaker leads.)

1 Display the "Initial Setting" screen.

➲ For details, refer to *Displaying the "**Initial Setting**" screen* on the previous page.

2 Turn MULTI-CONTROL to select "S/W Control".

3 Press the center of MULTI-CONTROL to switch between "Rear SP:F.Range" and "Rear SP:S/W".

When no subwoofer is connected to the rear speaker leads directly, select "**Rear SP:F.Range**" and proceed to the next operation.

When a subwoofer is connected to the rear speaker leads directly, select "**Rear SP:S/W**" and finish the setting.

4 Turn MULTI-CONTROL to select "Pre-out".

5 Press the center of MULTI-CONTROL to switch between "Subwoofer" and "Rear".

When no subwoofer is connected or you want to control the subwoofer sound with the external amplifier, select "**Rear**".

When a subwoofer is connected to the RCA output, select "**Subwoofer**".

Switching the sound muting/attenuation

You can select the muting method when the voice guidance is output.

❒ When you use a cellular phone connected with Bluetooth technology (dialing, talking, incoming call), the audio source volume is always muted independently of this setting.

1 Display the "Initial Setting" screen.

➲ For details, refer to *Displaying the "**Initial Setting**" screen* on page 120.

2 Turn MULTI-CONTROL to select "Guidance".

3 Press the center of MULTI-CONTROL repeatedly until the desired setting appears in the display.

Each press of **MULTI-CONTROL** changes the settings as follows:

- **ATT**:
  The audio source is attenuated automatically when the voice guidance is output.
- **Mute**:
  The audio source is muted automatically when the voice guidance is output.
- **Normal**:
  The audio source volume does not change.

❒ AV source volume returns to normal when the corresponding action ends.

Displaying the "Audio Menu" screen

To customize the audio settings, display the "**Audio Menu**" screen.

1 Press the MODE button when the map of the current location is displayed.

The audio operation screen appears.

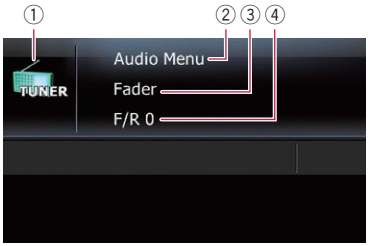
2 Press the center of MULTI-CONTROL to display the function select screen.

➲ For details, refer to *Audio screen switching overview* on page 76.

3 Turn MULTI-CONTROL to select "Audio Menu".

4 Press the center of MULTI-CONTROL.

The "**Audio Menu**" screen appears.



① **Source icon**
Shows which source has been selected.
② **Screen title**
③ **Function currently selected**
④ **Setting value**

5 Turn MULTI-CONTROL to select one of the initial settings.

Turning **MULTI-CONTROL** switches between the functions in the following order:
Fader (balance adjustment) — **Preset Equalizer** (equalizer adjustment) — **P.EQ Setting1** (equalizer band and the level of equalizer band) — **P.EQ Setting2** (frequency and Q factor) — **Loudness** (loudness) — **SubWoofer1** (phase of subwoofer output) — **SubWoofer2** (subwoofer setting) — **Bass Booster** (bass booster) — **HPF** (high pass filter) — **SLA** (source level adjustment)

❒ When "**Rear SP:F.Range**" is selected in "**S/W Control**" and "**Rear**" is selected in "**Preout**", "**SubWoofer1**" cannot be adjusted.

❒ When "**SubWoofer1**" is turned off, "**SubWoofer2**" cannot be adjusted.

❒ You cannot select [**SLA**] when the FM tuner is selected as the AV source.

Using balance adjustment

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

❒ When "**Rear SP:S/W**" is selected in "**S/W Control**", front/rear speaker balance cannot be adjusted.

➲ For details, refer to *Setting the rear output and subwoofer controller* on page 121.

1 Display the "Audio Menu" screen.

➲ For details, refer to *Displaying the "**Audio Menu**" screen* on the previous page.

2 Turn MULTI-CONTROL to select "Fader".

❒ If the balance setting has been previously adjusted, "**Balance**" will be displayed.

3 Press MULTI-CONTROL up or down to adjust front/rear speaker balance.

Each time **MULTI-CONTROL** is pressed up or down, the front/rear speaker balance moves towards the front or rear.
"**Front 15**" to "**Rear 15**" is displayed as the front/rear speaker balance moves from front to rear.
Setting "**F/R 0**" is correct when using a two speaker system.

4 Press MULTI-CONTROL left or right to adjust left/right speaker balance.

Each time **MULTI-CONTROL** is pressed left or right, the left/right speaker balance moves towards the left or right.
"**Left 15**" to "**Right 15**" is displayed as the left/right speaker balance moves from left to right.

Using the equalizer

The equalizer lets you adjust equalization to match vehicle interior acoustic characteristics as desired.

Recalling equalizer curves

There are six stored equalizer curves that you can easily recall at any time. Here is a list of the equalizer curves:

Equalizer curve
SuperBass (Super Bass) is a curve in which only low-pitched sound is boosted.
Powerful is a curve in which low-pitched and high-pitched sounds are boosted.
Natural is a curve in which low-pitched and high-pitched sounds are slightly boosted.
Vocal is a curve in which the midrange, which is the human vocal range, is boosted.
Custom is an adjusted equalizer curve that you create.
Flat is a flat curve in which nothing is boosted.

1 Display the "Audio Menu" screen.

➲ For details, refer to *Displaying the "**Audio Menu**" screen* on the previous page.

2 Turn MULTI-CONTROL to select "Preset Equalizer".

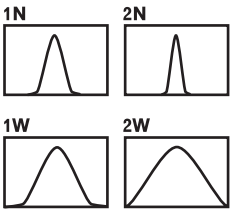
3 Press MULTI-CONTROL left or right to select an equalizer curve.

Customizing the equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjustments can be made with a 3-band parametric equalizer.

❒ If you make adjustments, **Custom** curve is updated.

- **Band**:
  You can select the equalizer band.
- **Level**:
  You can select the decibel (dB) level of the selected EQ.
- **Frequency**:
  You can select which frequency to set as the center frequency.
- **Q**:
  You can select the details of the curve characteristics. (The following figure shows the characteristic image.)



1 Display the "Audio Menu" screen.
➲ For details, refer to *Displaying the "**Audio Menu**" screen* on page 122.

2 Turn MULTI-CONTROL to select "P.EQ Setting1".

3 Press MULTI-CONTROL left or right to select the equalizer band to adjust.
Each time **MULTI-CONTROL** is pressed left or right, the equalization band is selected in the following order:
Low — **Mid** — **High**

4 Press MULTI-CONTROL up or down to adjust the level of the equalizer band.
Each time **MULTI-CONTROL** is pressed up or down, the level of the equalization band increases or decreases. "**+6**" to "**–6**" is displayed as the level is increased or decreased.

5 Turn MULTI-CONTROL to select "P.EQ Setting2".

6 Press MULTI-CONTROL left or right to select the desired frequency.
Press **MULTI-CONTROL** left or right until the desired frequency appears in the display.
Low: **40 Hz** — **80 Hz** — **100 Hz** — **160 Hz**
Mid: **200 Hz** — **500 Hz** — **1 kHz** — **2 kHz**
High: **3 kHz** — **8 kHz** — **10 kHz** — **12 kHz**

7 Press MULTI-CONTROL up or down to select the desired Q factor.
Press **MULTI-CONTROL** up or down until the desired Q factor appears in the display.
2W — **1W** — **1N** — **2N**

8 Repeat above adjustments.
If necessary, you can adjust other equalization bands successively. ■

Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

1 Display the "Audio Menu" screen.
➲ For details, refer to *Displaying the "**Audio Menu**" screen* on page 122.

2 Turn MULTI-CONTROL to select "Loudness".

3 Press the center of MULTI-CONTROL to turn loudness on.
Loudness level (e.g., **Mid**) appears in the display.
❒ To turn loudness off, press **MULTI-CONTROL** again.

4 Press MULTI-CONTROL left or right to select a desired level.
Each time **MULTI-CONTROL** is pressed left or right, level is selected in the following order:
Low — **Mid** — **High** ■

Using subwoofer output

The navigation system is equipped with a subwoofer output mechanism, which can be turned on or off.

1 Display the "Audio Menu" screen.
➲ For details, refer to *Displaying the "**Audio Menu**" screen* on page 122.

2 Turn MULTI-CONTROL to select "SubWoofer1".

3 Press the center of MULTI-CONTROL to turn subwoofer output on.
❒ To turn subwoofer output off, press **MULTI-CONTROL** again.

4 Press MULTI-CONTROL left or right to set the phase of subwoofer output.
Each time **MULTI-CONTROL** is pressed left or right, the phase of subwoofer output is selected in the following order:
Reverse (Reverse phase) — **Normal** (Normal phase)

5 Turn MULTI-CONTROL to select "SubWoofer2".

6 Press MULTI-CONTROL left or right to select cut-off frequency.
Each time **MULTI-CONTROL** is pressed left or right, frequencies are selected in the following order:
50 Hz — **63 Hz** — **80 Hz** — **100 Hz** — **125 Hz**

7 Press MULTI-CONTROL up or down to adjust the output level of the subwoofer.
Each time **MULTI-CONTROL** is pressed up or down, subwoofer level increases or decreases. "**+ 6**" to "**– 24**" is displayed as the level is increased or decreased.

Enhancing bass (Bass Booster)

You can enhance bass sounds that are often muted by driving noise.

1 Display the "Audio Menu" screen.
➲ For details, refer to *Displaying the "**Audio Menu**" screen* on page 122.

2 Turn MULTI-CONTROL to select "Bass Booster".

3 Press MULTI-CONTROL up or down to select a desired level.
"**0**" to "**+6**" is displayed as the level is increased or decreased.

Using the high pass filter

When you cut lower sounds from the subwoofer output frequency, activate **HPF** (high pass filter). Only frequencies higher than those in the selected range are output from the front or rear speakers.

1 Display the "Audio Menu" screen.
➲ For details, refer to *Displaying the "**Audio Menu**" screen* on page 122.

2 Turn MULTI-CONTROL to select "HPF".

3 Press the center of MULTI-CONTROL to turn high pass filter on.
❒ To turn high pass filter off, press **MULTI-CONTROL** again.

4 Press MULTI-CONTROL left or right to select cut-off frequency.
Each time **MULTI-CONTROL** is pressed left or right, frequencies are selected in the following order:
50 Hz — 63 Hz — 80 Hz — 100 Hz — 125 Hz

Adjusting source levels

SLA (source level adjustment) lets you adjust 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.

1 Compare the FM tuner volume level with the level of the source you wish to adjust.

2 Display the "Audio Menu" screen.
➲ For details, refer to *Displaying the "**Audio Menu**" screen* on page 122.

3 Turn MULTI-CONTROL to select "SLA".

4 Press MULTI-CONTROL up or down to adjust the source volume.

Each time **MULTI-CONTROL** is pressed up or down, source volume increases or decreases. "**+4**" to "**–4**" is displayed as the source volume is increased or decreased.

The following AV sources are set to the same source level adjustment volume automatically.

- **USB** and **iPod**
- **XM** and **SIRIUS**
- **EXT1** and **EXT2**

❒ The source volume level for AM can be set separately from FM. ■

Monitoring the battery status

You can check the battery status of the detachable device.

1 Attach the detachable device to the head unit.

➲ For detailed operations, refer to Operation Manual for AVIC-U310BT.

2 Press the MODE button to display the navigation map screen.

3 Touch [Home] on the map screen.

The "**Top Menu**" screen appears.

4 Touch [Settings].

The "**Settings Menu**" screen appears.

The battery status indicator is displayed on the upper right of the "**Settings Menu**" screen.

Battery status indicator	
	Fully charged
	Sufficient power
	Charging

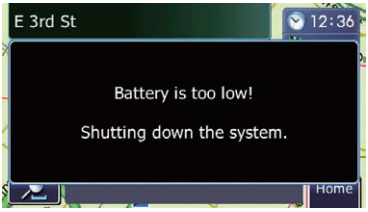
Automatic shutdown of the navigation system

When the battery of detachable device nearly runs out, the navigation system automatically turns off.

When the detachable device is turned on again after charging the battery, it returns to the last system status.

A message appears when the remaining battery life is getting low.

When the battery nearly runs out, a message appears and the navigation system automatically turns off.



❒ When the battery of the detachable device is completely run down, the splash screen is displayed the next time the system is booted up.

Replicating the settings

You can import settings you have made on the utility program AVIC FEEDS which is available separately to the navigation system.

❒ The utility program AVIC FEEDS is available from our website. For details, refer to the information on our website.

1 Use AVIC FEEDS to replicate the settings and store them on an SD memory card.

2 Insert an SD memory card into the SD card slot.

3 Touch [Home] on the map screen and then touch [Navigation].

➲ For details of the operations, refer to *Screen switching overview* on page 24.

4 Touch [Cpy Setting].
A message confirming whether to update the settings appears.

5 Touch [Yes].
Update starts.
After the settings are updated, a message confirming whether to restart the navigation system appears.

6 Touch [OK].
The navigation system restarts.

Returning the navigation system to the default or factory settings

You can return settings or recorded contents to the default or factory settings. There are four methods to clear user data, and the situations and the cleared contents are different for each method. For the contents that are cleared in each method, see the list presented later.

➲ For detailed information about the items which would be erased, refer to *Setting items to be deleted* on the next page.

- **Method 1: Press the RESET button**
  Pressing the **RESET** button clears almost all settings of the audio function.
- **Method 2: Touch [F. Reset].**
  ➲ For details, refer to *Restoring the default setting* on page 120.
- **Method 3: Touch [Reset] on the "Clear Data/Setting" screen.**
  ➲ For details, refer to *Displaying the "***Clear Data/Setting***" screen* on page 130.
- **Method 4: Touch [Clear user information] on the "Clear Data/Setting" screen.**
  ➲ For details, refer to *Displaying the "***Clear Data/Setting***" screen* on page 130.

Setting items to be deleted

The items to be deleted vary depending on the reset method. The items listed in the following table return to the default or factory settings. Any items not listed below will be retained.

However, if you carry out [Clear user information], all the settings related to the navigation function including the items not listed below are deleted.

—: The setting will be retained.

✓: The setting will be cleared and returned to the default or factory settings.

Navigation functions		Method 1	Method 2	Method 3	Method 4
Map function	View mode and scale setting on the map	—	—	✓	✓
	Direction of the map	—	—	✓	✓
	Last cursor position on the map screen	—	✓	✓	✓
Route setting	Current route	—	—	—	✓
	Guidance state of the current route	—	—	✓	✓
	Vehicle position information	✓	—	✓	✓
	Route info	—	✓	✓	✓
Navigation Menu	Point registered in **Favorites**	—	—	—	✓
	Sorting order selected in **Favorites**	—	—	✓	✓
	History	—	—	—	✓
	Gas Mileage	—	✓	✓	✓
	Driving data of **Eco Graph**	—	✓	✓	✓
	Eco Settings	—	✓	✓	✓
Settings Menu	**UI Language**, **Voice Language**	—	—	✓	✓
	Time	—	—	✓	✓
	Set Home	—	—	—	✓
	Demo Mode	✓	✓	✓	✓
	Other settings	—	✓	✓	✓
Phone Menu (*1)	**Contacts**	—	✓	✓	✓
	Volume	—	✓	✓	✓
	Setting	—	✓	✓	✓
	Call histories	—	✓	✓	✓

(*1) All stored data of 3 users is deleted.

Audio functions		Method 1	Method 2	Method 3	Method 4
Volume		✓ (*2)	—	—	—
Initial Settings	All settings	✓ (*2)	—	—	—
Audio Menu	All settings	✓ (*2)	—	—	—
TUNER, **iPod**, **EXT**, **SIRIUS**, **"HD"**	All settings (*3)	✓ (*2)	—	—	—
CD, **USB**, **XM**	All settings	✓ (*2)	—	—	—

(*2) Only when the detachable device is attached to the head unit, settings are cleared by the pressing the **RESET** button.
(*3) All settings including the setting on "**Function Menu**" are cleared.

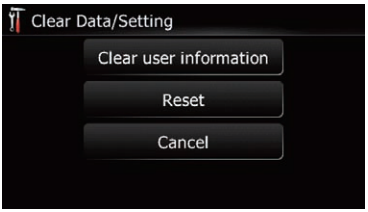
Displaying the "Clear Data/Setting" screen

❒ Be sure to read *Setting items to be deleted* before you perform this operation.
➲ For details, refer to *Setting items to be deleted* on the previous page.

1 Display the "Settings Menu" screen.
➲ For details of the operations, refer to *Displaying the "**Settings Menu**" screen* on page 111.

2 Touch and hold [F. Reset].
The "**Clear Data/Setting**" screen appears.

3 Touch [Clear user information] or [Reset].



The message confirming whether to erase the data appears.

4 Touch [Yes].
The recorded contents are cleared.
❒ You can also display the "**Clear Data/Setting**" screen by pressing and holding the **MODE** button while splash screen appears. ■

Troubleshooting

If you have problems operating your navigation system, 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 authorized Pioneer service facility.

Problems in the procedures for updating

Symptom	Cause	Action
The upgrade process doesn't start and the navigation system boots up as usual.	An incorrect SD memory card has been inserted.	Eject the inserted SD memory card and insert the correct upgrade SD memory card.
	Upgrade has been already done.	Check whether the upgrade was done properly. If the upgrade has not been done yet, consult the nearest authorized service station.
The navigation system does not work properly after upgrade.	The engine of your vehicle was stopped or the power supply to the navigation system was turned off during upgrade process.	Consult the nearest authorized service station.
	Upgrade SD memory card was pulled out during upgrade process.	Consult the nearest authorized service station.
	The screen that cannot begin the upgrade process is displayed.	Eject the upgrade SD memory card, and display the map of your current position, and then reinsert the card.

Problems with the navigation screen

Symptom	Cause	Action (Reference)
The power doesn't turn on. The navigation system doesn't operate.	Leads and connectors are incorrectly connected.	Confirm once more that all connections are correct.
	The fuse is blown.	Rectify the reason for the fuse blowing, then replace the fuse. Be very sure to install a correct fuse with the same rating.
	Noise and other factors are causing the built-in microprocessor to operate incorrectly.	Press the **RESET** button.
The detachable device does not turn on.	The battery of the detachable device is run down.	Charge the battery.
When you use the detachable device removed from the head unit, the battery runs out more rapidly than before.	There's a possibility a new battery is needed.	Contact the nearest authorized Pioneer Service Station.

Appendix

Symptom	Cause	Action (Reference)
You cannot position your vehicle on the map without a significant positioning error.	The GPS antenna is in an unsuitable location.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Check the GPS signal reception and the position of the GPS antenna if necessary.
	Obstacles are blocking signals from the satellites.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Check the GPS signal reception and the position of the GPS antenna if necessary, or continue driving until reception improves. Keep the antenna clean.
	The position of satellites relative to your vehicle is inadequate.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Continue driving until reception improves.
	Signals from the GPS satellites have been modified to reduce accuracy. (GPS satellites are operated by the US Department of Defense, and the US government reserves the right to distort positioning data for military reasons. This may lead to greater positioning errors.)	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Wait until reception improves.
You cannot position your vehicle on the map without a significant positioning error.	If a vehicle phone or cellular phone is used near the GPS antenna, GPS reception may be lost temporarily.	The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. When using a cellular phone, keep the antenna of the cellular phone away from the GPS antenna.
	Something covers the GPS antenna.	Do not cover the GPS antenna with spray paint or vehicle wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals.
"**Eco Graph**" is not available.	The navigation system is unable to obtain past average fuel mileage data, so "**Eco Graph**" cannot be displayed.	Drive about 10 km on a road without obstructions. Then park your vehicle in a safe place, turn off the navigation system and turn the power to the navigation system back on.
The map color does not switch automatically between daytime and nighttime.	"**Day/Night Display**" is set to "**Day**".	Check "**Day/Night Display**" setting and make sure "**Automatic**" is selected. (Page 116)
	The orange/white lead is not connected.	Check the connection.
The screen is too bright.	An improper value has been set on "**Brightness**".	Check the settings. (Page 119)
The display is very dim.	An improper value has been set on "**Brightness**".	Check the settings. (Page 119)
No sounds of audio source are produced. The volume level will not rise.	The volume level is low.	Adjust the volume level.
	A speaker lead is disconnected.	Check the connection.
The volume of navigation guidance and beeps cannot be adjusted.	**MULTI-CONTROL** is used to adjust the volume.	Turn the volume up or down using [**Sound**] on the "**Settings Menu**" screen. (Page 111)

Appendix

Symptom	Cause	Action (Reference)
The person on the other end of the phone call cannot hear the conversation due to an echo.	The voice from the person on the other end of the phone call is output from the speakers and then picked up by the microphone again, creating an echo.	Use the following methods to reduce the echo: —Lower the volume on the receiver —Have both parties pause slightly before speaking
There's no picture.	The backlight of the LCD panel is turned off.	Turn on the backlight. (Page 120)
There is no response when the touch panel keys are touched, or a different key responds.	The touch panel keys deviate from the actual positions that respond to your touch for some reason.	Perform touch panel calibration. (Page 118)
The USB storage device cannot be used.	The USB storage device has been removed immediately after plugging it.	Park your vehicle in a safe place, and turn off the engine. Turn the ignition key back to Acc off. Then start the engine again, and turn the power to the navigation system back on.

Problems with the audio screen

Symptom	Cause	Action (Reference)
CD playback is not possible.	The disc is inserted upside down.	Insert the disc with the label upward.
	The disc is dirty.	Clean the disc.
	The disc is cracked or otherwise damaged.	Insert a normal, round disc.
	The files on the disc are an irregular file format.	Check the file format.
	The disc format cannot be played back.	Replace the disc.
	The loaded disc is a type this system cannot play.	Check what type of disc it is.
The audio skips.	The navigation system is not firmly secured.	Secure the navigation system firmly.
No sounds are produced. The volume level will not rise.	Cables are not connected correctly.	Connect the cables correctly.
	The system is paused or performing, fast reverse or forward during the audio playback.	There is no sound on fast reverse or forward.
iPod cannot be operated.	The iPod is frozen.	• Reconnect the iPod with the USB interface cable for iPod. • Update the iPod software version.
	An error has occurred.	• Reconnect the iPod with the USB interface cable for iPod. • Park your vehicle in a safe place, and apply the parking brake. Turn the power off and then turn the power on. If this does not solve the problem, press **RESET** button on the navigation system. • Update the iPod software version.

Appendix

Problems with the phone screen

Symptom	Cause	Action (Reference)
Dialing is not possible because the touch panel keys for dialing are inactive.	Your phone is out of range for service.	Retry after re-entering the range for service.
	The connection between the cellular phone and the navigation system cannot be established now.	Perform the connection process.

If the screen becomes frozen...

Park your vehicle in a safe place, and apply the parking brake. Press **RESET** button on the navigation system.

Appendix

Messages and how to react to them

The following messages may be displayed by your navigation system. Refer to the table below to identify the problem, then take the suggested corrective action.
There are occasions when you may see error messages other than those shown here. In such a case, follow the instructions given on the display.

Messages in the procedures for updating

Message	When	What to do
An error occurred and the update failed.	Unexpected error occurred in the update process.	Consult your local Pioneer dealer if this message persist.

Messages for navigation functions

Message	When	What to do (Reference)
Preparing to start up system... please wait.	When the navigation system starts, the message is displayed if the remaining battery power of the detachable device is low.	• Wait until the message "**Ready to start up system.**" appears. After the message is displayed, the navigation system restarts. • Consult the nearest authorized Pioneer service station if this message persists.
Dataloading failed.	You may have transferred the data from your cellular phone in a format cannot be received by the navigation system.	• Select a suitable item and format, then retry. (Page 68) • Connect your cellular phone with another method again and retry. (Page 55)
Application startup failed. Check file on SD card. Press "OK" to exit Application Mode.	The application is not stored on the SD memory card.	Use the utility program AVIC FEEDS to confirm the proper solution.
	The application failed to download properly.	Use the utility program AVIC FEEDS to confirm the proper solution.
	A file required for application startup is not stored on the SD memory card or is damaged.	Use the utility program AVIC FEEDS to confirm the proper solution.
	The SD memory card is damaged.	Make sure there are no problems with the SD memory card.

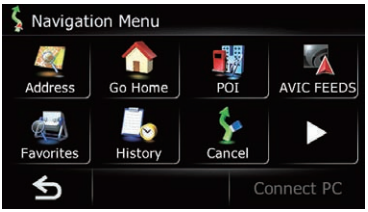
Messages for audio functions

➲ For details, refer to Operation Manual for AVIC-U310BT.

Appendix

Display information

“Navigation Menu” screen



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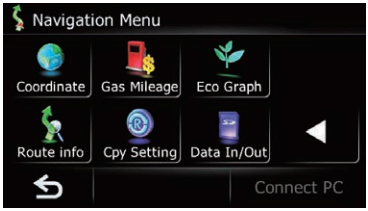

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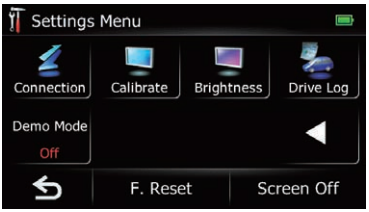

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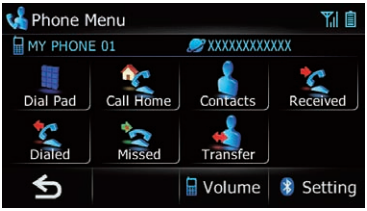
Appendix

“Phone Menu” screen



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http://www.pioneerelectronics.com

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au Canada **http://www.pioneerelectronics.ca**

See "Visit our website" page
Voir la page "Visitez notre site Web"

To keep up to date with the latest navigational data, you can periodically update your navigation system. For further details, please visit our website.

Pour vous tenir au courant des plus récentes données de navigation, vous pouvez mettre à jour périodiquement votre système de navigation. Pour de plus amples détails, veuillez visiter notre site Web.

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