

Operation Manual

GPS NAVIGATION AUDIO SYSTEM

AVIC-F310BT

Be sure to read “Important Information for the user” first!
“Important Information for the user” includes the
important information that you must understand before
using this navigation system.

Declaration of Conformity with regard to the R&TTE Directive 1999/5/EC

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English:

Hereby, Pioneer, declares that this AVIC-F310BT is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

Suomi:

Pioneer vakuuttaa täten että AVIC-F310BT tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.

Nederlands:

Hierbij verklaart Pioneer dat het toestel AVIC-F310BT in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG

Français:

Par la présente Pioneer déclare que l'appareil AVIC-F310BT est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE

Svenska:

Härmed intygar Pioneer att denna AVIC-F310BT står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Dansk:

Undertegnede Pioneer erklærer herved, at følgende understyr AVIC-F310BT overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF

Deutsch:

Hiermit erkläre Pioneer, dass sich dieses AVIC-F310BT in Übereinstimmung mit den grundlegenden Anforderungen und den anderen relevanten Vorschriften der Richtlinie 1999/5/EG befindet". (BMW i)

Ελληνικά:

ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Pioneer ΔΗΛΩΝΕΙ ΟΤΙ AVIC-F310BT ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ

Italiano:

Con la presente Pioneer dichiara che questo AVIC-F310BT è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.

Español:

Por medio de la presente Pioneer declara que el AVIC-F310BT cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE

Português:

Pioneer declara que este AVIC-F310BT está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.

Čeština:

Pioneer tímto prohlašuje, že tento AVIC-F310BT je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES

Eesti:

Käesolevaga kinnitab Pioneer seadme AVIC-F310BT vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.

Magyar:

Alulírott, Pioneer nyilatkozom, hogy a AVIC-F310BT megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.

Latviešu valoda:

Ar šo Pioneer deklarē, ka AVIC-F310BT atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.

Lietuvių kalba:

Šiuo Pioneer deklaruoją, kad šis AVIC-F310BT atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.

Malti:

Hawnhekk, Pioneer jiddikjara li dan AVIC-F310BT jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Direttiva 1999/5/EC

Slovenčina:

Pioneer týmto vyhlasuje, že AVIC-F310BT spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.

Slovenščina:

Pioneer izjavlja, da je ta AVIC-F310BT v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.

Română:

Prin prezenta, Pioneer declara ca acest AVIC-F310BT este in conformitate cu cerintele esentiale si alte prevederi ale Directivei 1999/5/EU.

Български:

С настоящето, Pioneer декларира, че този AVIC-F310BT отговаря на основните изисквания и други съответни постановления на Директива 1999/5/EC.

Polski:

Niniejszym Pioneer oświadcza, że AVIC-F310BT jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC

Norsk:

Pioneer erklærer herved at utstyret AVIC-F310BT er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

Íslenska:

Hér með lýsir Pioneer yfir því að AVIC-F310BT er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC

Thank you for buying this Pioneer product.

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



Important

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

01 Introduction

- Manual overview **8**
 - How to use this manual **8**
 - Terminology **8**
 - Definitions of terminology **8**
- Notice regarding MP3 file usage **8**
- iPod compatibility **9**
- Map coverage **9**
- Protecting the LCD panel and screen **9**
- Resetting the microprocessor **9**

02 Before you start

- Checking part names and functions **10**
- Inserting and ejecting a disc **11**
 - Inserting a disc **11**
 - Ejecting a disc **11**
- Inserting and ejecting an SD memory card **11**
 - Inserting an SD memory card **11**
 - Ejecting an SD memory card **12**
- Plugging and unplugging a USB storage device **12**
 - Plugging in a USB storage device **13**
 - Unplugging a USB storage device **13**
- Connecting and disconnecting an iPod **13**
 - Connecting your iPod **13**
 - Disconnecting your iPod **13**
- Protecting your product from theft **13**
- Flow from startup to termination **14**
- On first-time startup **14**
- Regular startup **14**

03 How to use the detachable device

- Checking part names and functions **15**

Removing and attaching the detachable device **15**

- Removing the detachable device **15**
- Attaching the detachable device **15**

Installing the battery **16**

Disposing of the battery **16**

Turning on the detachable device **17**

Charging the battery of detachable device **17**

Monitoring the battery status **17**

Automatic shutdown of the navigation system **17**

Connecting with your PC **18**

04 How to use the navigation menu screens

Screen switching overview **20**

What you can do on each menu **20**

Operating menu screens (e.g. "Navigation Menu" screen) **21**

Operating list screens (e.g. city list) **21**

Operating the on-screen keyboard **21**

05 How to use the map

How to read the map screen **22**

- Displaying the audio information bar **23**

- Enlarged map of the intersection **23**

- Display during motorway driving **23**

Operating the map screen **24**

- Changing the scale of the map **24**

- Switching the map orientation **24**

- Scrolling the map to the position you want to see **25**

Viewing information about a specified location **25**

Customising the map screen settings **25**

- Displaying POI on the map **26**

- Switching the map between 2D and 3D **27**

- Displaying manoeuvres **27**

- Setting the map colour change between day and night **27**

- Changing the road colour **28**

- Setting “Close Up View” **28**
- Setting the “Favourites” icon display **28**
- Setting the speed limit display **28**
- Selecting traffic information to display **28**
- Setting the current street name display **29**
- Changing the setting of navigation interruption screen **29**

06 Setting a route to your destination

- The basic flow of creating your route **30**
- Checking the location on the map **30**
- Checking the calculated route **30**
 - Modifying the route calculation conditions **31**
 - Checking the current itinerary **32**
 - Adding a waypoint **32**

07 Checking and modifying the current route

- Checking the current itinerary **34**
- Editing waypoints **34**
 - Adding a waypoint **34**
 - Deleting a waypoint **35**
 - Sorting waypoints **35**
- Modifying the route calculation conditions **35**
- Using the demonstration guidance **36**
- Cancelling the route guidance **36**

08 Searching for and selecting a location

- Searching for a location by address **37**
 - Searching for a name by entering multiple keywords **38**
- Finding the location by specifying the postcode **38**
- Setting up a route to your home **39**
- Searching for Points of Interest (POI) **39**
 - Searching for POIs by specifying a category first **40**

- Searching for a POI directly from the name of the facilities **40**
- Searching for a nearby POI **40**
- Searching for POIs around the destination **41**
 - Searching for POIs around the city **41**
- Selecting destination from “Favourites” **42**
- Searching for POIs by using the data on the SD memory card **42**
- Selecting a location you searched for recently **42**
- Searching for a location by coordinates **43**
- Searching for a location by scrolling the map **43**

09 Registering and editing locations

- Registering a location into “Favourites” **44**
 - Registering a location by “Favourites” **44**
 - Registering a location by scroll mode **44**
- Editing registered locations **44**
 - Editing the entry in “Favourites” **44**
 - Sorting the entry in “Favourites” **45**
 - Deleting the entry in “Favourites” **45**
- Registering and editing your home **45**
 - Registering your home **45**
 - Editing your home **46**
- Deleting an entry in “History” **46**

10 Using traffic information

- Checking all traffic information **48**
- Checking traffic information on the route **49**
- How to read traffic information on the map **49**
- Setting an alternative route to avoid traffic jams **49**
 - Checking for traffic jams automatically **50**
 - Checking traffic information manually **50**
- Selecting traffic information to display **51**

Selecting preferred RDS-TMC service provider manually **51**

11 Using hands-free phoning

Preparing communication devices **52**

Displaying the Phone Menu **52**

Registering your mobile phone **52**

- Searching for nearby phones **53**
- Searching for a specified phone **53**
- Pairing from your mobile phone **54**

Connecting and disconnecting a registered mobile phone **55**

- Connecting a registered mobile phone **55**
- Disconnecting a mobile phone **55**
- Deleting a registered phone **55**

Making a phone call **56**

- Direct dialling **56**
- Making a call home easily **56**
- Calling a number in the “Contacts” **56**
- Making a phone call using the received call history **57**
- Making a phone call using the dialled number history **57**
- Making a phone call using missed call history **58**
- Dialling the entry in the “Favourites” **58**
- Dialling a facility’s phone number **59**
- Dialling from the map **59**

Receiving a phone call **59**

- Answering an incoming call **59**
- Rejecting an incoming call **60**

Transferring the phone book **60**

Clearing memory **61**

Setting the phone **61**

- Setting the phone volume **61**
- Stopping Bluetooth wave transmission **62**
- Answering a call automatically **62**
- Setting the automatic rejection function **62**

– Echo cancelling and noise reduction **62**

– Setting automatic connection **63**

– Editing the device name **63**

Notes for hands-free phoning **63**

Updating the Bluetooth wireless technology software **64**

12 Modifying the general settings for navigation functions

Setting the volume for navigation system **65**

Customising the regional settings **65**

- Selecting the language **65**
- Setting the time difference **65**
- Changing the unit between km and miles **66**
- Changing the virtual speed of the vehicle **66**
- Setting the keyboard layout **66**

Replicating the settings **67**

Setting “Safe Mode” **67**

Inputting the fuel consumption information for calculating the fuel cost **67**

Setting the power-saving function **68**

Adjusting the response positions of the touch panel (touch panel calibration) **68**

Correcting the current location **69**

Checking the connections of leads **69**

Checking the version information **69**

Adjusting the screen brightness **69**

Turning off the screen **70**

Restoring the default setting **70**

Returning the navigation system to the initial state **70**

13 Other functions

Exporting data for “NavGate FEEDS” **71**

- Fuel details **71**
- Recording your travel history **72**

Exporting and importing the entry in “Favourites” **72**

- Exporting the entry in “Favourites” **72**

- Importing “Favourites” edited on “NavGate FEEDS” **73**
- Exporting the data of “Fuel details” from “Export/Import Menu” screen **73**
- “PC Mode” function **74**
 - Switching to “PC Mode” **74**
 - Cancelling “PC Mode” **74**
- 14 Basic flow of operation**
 - Using the audio source **75**
 - Switching the audio operation screen **75**
 - Screen switching overview **76**
 - What you can do on each menu **77**
- 15 Using the radio (FM)**
 - Reading the screen **78**
 - Operating by hardware buttons **78**
 - Storing and recalling broadcast frequencies **79**
 - Storing the strongest broadcast frequencies **79**
 - Tuning in strong signals **79**
 - Tuning into alternative frequencies **79**
 - PI Seek operation **80**
 - Activating the Auto PI seek for preset stations **80**
 - Limiting stations to regional programming **80**
 - Receiving traffic announcements **80**
 - Using news programme interruption **81**
 - Searching for an RDS station by PTY information **81**
 - Receiving PTY alarm broadcasts **82**
 - PTY list **83**
- 16 Using the radio (MW/LW)**
 - Reading the screen **84**
 - Operating by hardware buttons **84**
 - Storing and recalling broadcast frequencies **84**
 - Storing the strongest broadcast frequencies **85**
 - Tuning in strong signals **85**
- 17 Playing audio CDs**
 - Reading the screen **86**
 - Operating by hardware buttons **86**
 - Selecting a track from the list **87**
 - Setting a repeat play range **87**
 - Play tracks in random order **87**
 - Scan tracks of a CD **87**
 - Playback and Pause **88**
 - Using advanced sound retriever **88**
- 18 Playing music files on ROM**
 - Reading the screen **89**
 - Operating by hardware buttons **90**
 - Selecting a track from the list **90**
 - Setting a repeat play range **91**
 - Play tracks in random order **91**
 - Scan folders and tracks **91**
 - Playback and Pause **91**
 - Using advanced sound retriever **92**
- 19 Playing music files on USB**
 - Reading the screen **93**
 - Operating by hardware buttons **93**
 - Selecting a file from the list **94**
 - Setting a repeat play range **94**
 - Playing files in random order **95**
 - Scan folders and files **95**
 - Playback and Pause **95**
 - Using advanced sound retriever **95**
- 20 Using an iPod**
 - Reading the screen **96**
 - Operating by hardware buttons **97**
 - Selecting a song from the list **97**
 - Setting a repeat play range **98**
 - Playback and Pause **98**
 - Using advanced sound retriever **98**
 - Operating this navigation system's iPod function from your iPod **98**
 - Playing songs in random order (shuffle) **99**
 - Playing all songs in random order (shuffle all) **99**

- Playing songs related to the currently playing song **99**
- Searching for applicable items
 - alphabetically **100**
- Setting the audiobook play speed **100**
- 21 Using the AUX source**
 - Reading the screen **101**
 - Switching the auxiliary setting **101**
 - Selecting "AUX" as the source **101**
- 22 Turning the source off**
- 23 Customising the initial settings**
 - Displaying the "Initial Setting" screen **103**
 - Setting the illumination colour **103**
 - Setting the FM tuning step **103**
 - Using Auto PI Seek for preset stations **103**
 - Switching the auxiliary setting **104**
 - Setting the rear output and subwoofer controller **104**
 - Setting the rear output **104**
 - Switching the sound muting/attenuation **104**
- 24 Audio adjustments**
 - Displaying the "Audio Menu" screen **106**
 - Using balance adjustment **106**
 - Using the equaliser **106**
 - Recalling equaliser curves **106**
 - Adjusting the equaliser curves **107**
 - Adjusting loudness **107**
 - Using subwoofer output **108**
 - Using the high pass filter **108**
 - Adjusting source levels **109**
 - Enhancing bass (Bass) **109**
- 25 Returning the Navigation System to the Default or Factory Settings**
 - Setting items to be deleted **111**
- Appendix**
 - Troubleshooting **113**
 - Messages and how to react to them **116**
 - Messages for audio functions **117**
 - Positioning technology **119**
 - Positioning by GPS **119**
 - Map matching **119**
 - Handling large errors **119**
 - When positioning by GPS is impossible **120**
 - Conditions likely to cause noticeable positioning errors **120**
 - Route setting information **122**
 - Route search specifications **122**
 - Handling and care of discs **122**
 - Built-in drive and care **123**
 - Ambient conditions for playing a disc **123**
 - Playable discs **123**
 - CD **123**
 - Detailed information for playable media **124**
 - Compatibility **124**
 - Media compatibility chart **126**
 - Bluetooth **128**
 - SD and SDHC logo **128**
 - WMA **128**
 - AAC **128**
 - Detailed information regarding connectable iPods **129**
 - iPod **129**
 - iPhone **129**
 - iTunes **129**
 - Using the LCD screen correctly **130**
 - Handling the LCD screen **130**
 - Liquid crystal display (LCD) screen **130**
 - Maintaining the LCD screen **130**
 - LED (light-emitting diode) backlight **130**
 - Display information **131**
 - "Navigation Menu" screen **131**
 - "Settings Menu" screen **131**
 - "Phone Menu" screen **132**
 - Glossary **133**
 - Specifications **135**

Manual overview

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

How to use this manual

Finding the operation procedure for what you want to do

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

Finding the operation procedure from a menu name

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

Glossary

Use the glossary to find the meanings of terms.

Terminology

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.) **MENU** button, **MAP** button.
- Items in different menus, screen titles, and functional components are described in **bold** with double quotation marks “ ”: e.g.) “**Navigation Menu**” screen or “**Audio Source**” 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.
- References are indicated like this: e.g.)
 - ➔ For details, refer to *Registering your home* on page 45.

Definitions of terminology

“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”. ☐

Notice regarding MP3 file usage

Supply of this navigation system conveys only a licence for private, non-commercial use and does not convey a licence nor imply any right to use this product in any commercial (i.e. revenue-generating), real time broadcasting (terrestrial, satellite, cable and/or any other media), broadcasting/streaming via internet, intranets and/or other networks or in other electronic content distribution systems, such as pay-audio or audio-on-demand applications. An independent licence for such use is required. For details, please visit <http://www.mp3licensing.com>. ☐

Introduction

iPod compatibility

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

- iPod nano first generation; Ver. 1.3.1
 - iPod nano second generation; Ver. 1.1.3
 - iPod nano third generation; Ver. 1.1.3
 - iPod nano fourth generation; Ver. 1.0.3
 - iPod fifth generation; Ver. 1.3
 - iPod classic; Ver. 2.0
 - iPod touch first generation; Ver. 1.1.5
 - iPod touch second generation; Ver. 2.2
 - iPhone; Ver. 2.2
 - iPhone 3G; Ver. 2.2
- ❑ In this manual, iPod and iPhone will be referred to as iPod.
 - ❑ When you use this navigation system with a Pioneer USB interface cable for iPod (CD-IU50) (sold separately), you can control an iPod compatible with this navigation system.
 - ❑ To obtain maximum performance, we recommend that you use the latest software for the iPod.
 - ❑ Operation methods may vary depending on the iPod models and the software version of iPod.
 - ❑ For more details about iPod compatibility with this navigation system, refer to the information on our website.
 - ❑ iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
 - ❑ iPhone is a trademark of Apple Inc. ❑

Map coverage

For more details about the map coverage of this navigation system, refer to the information on our website. ❑

Protecting the LCD panel and screen

- ❑ Do not allow direct sunlight to fall on the LCD screen when this product is not being used. Extended exposure to direct sunlight can result in LCD screen malfunction due to the resulting high temperatures.

- ❑ When using a mobile phone, keep the aerial of the mobile phone away from the LCD screen to prevent disruption of the video in the form of spots, coloured stripes, etc.
- ❑ To protect the LCD screen from damage, be sure to touch the touch panel keys with your finger. (The stylus is supplied for special calibrations. Do not use the stylus for normal operations.) ❑

Resetting the microprocessor

⚠ CAUTION

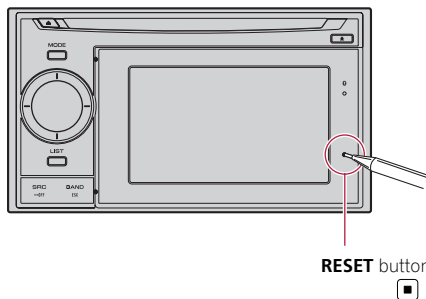
Pressing the **RESET** button clears the settings for the audio source without clearing all the navigation function items. Please refer to the related section before clearing.

- ➡ For more detailed information about the items which would be erased, refer to *Setting items to be deleted* on page 111.

The microprocessor must be reset under the following conditions:

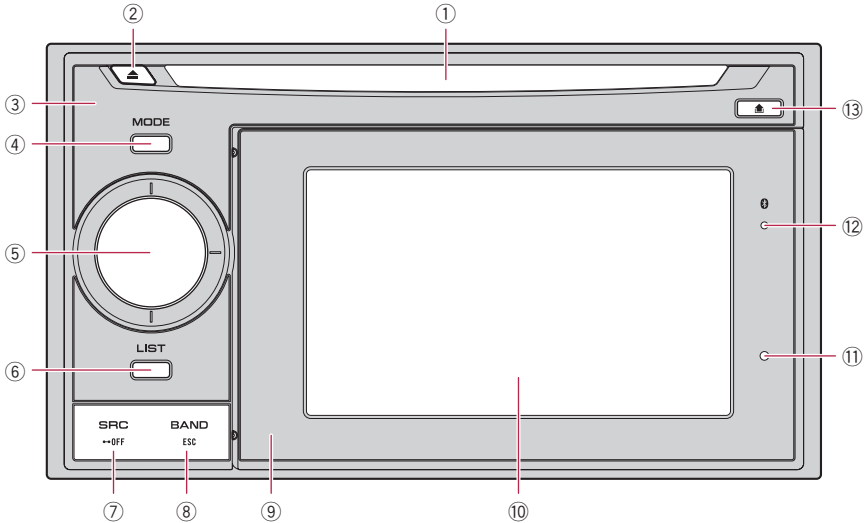
- Prior to using this product for the first time after installation.
- If the product fails to operate properly.
- If there appear to be problems with the operation of the system.
- When changing the combination of equipment.
- When adding/removing additional products that connect to the navigation system.
- If your vehicle position is shown on the map with a significant positioning error.

- **Press the RESET button with a pen tip or other pointed implement.**



Checking part names and functions

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



① Disc loading slot

Insert a disc to play.

➤ For details concerning operations, refer to *Inserting and ejecting a disc* on the next page.

② EJECT button

Press to eject the disc from the disc loading slot.

③ Head unit

④ MODE button

- Press to switch between the map screen and the audio operation screen.
- Press to display the map screen while the navigation function screen is displayed.

⑤ MULTI-CONTROL

MULTI-CONTROL is used only for the audio function.

➤ For more details, refer to the descriptions from Chapter 14 to Chapter 24.

• Rotating;

Adjusts the audio source volume.

• Moving MULTI-CONTROL to the left or right;

Allows you to change the frequency one step at a time; operates track search controls.

• Keep moving MULTI-CONTROL to the left or right;

Allows you to perform manual seek tuning, fast forward or reverse.

⑥ LIST button

This button is used only for audio functions.

➤ For more details, refer to the descriptions from Chapter 14 to Chapter 24.

⑦ SRC/OFF button

This button is used only for audio functions.

Before you start

➔ For more details, refer to the descriptions from Chapter 14 to Chapter 24.

⑧ BAND/ESC button

This button is used only for audio functions.

➔ For more details, refer to the descriptions from Chapter 14 to Chapter 24.

⑨ Detachable device

⑩ LCD screen

⑪ RESET button

➔ For details, refer to *Resetting the micro-processor* on page 9.

⑫ Bluetooth connection status indicator

Lights up when your phone is paired to the navigation system by Bluetooth wireless technology.

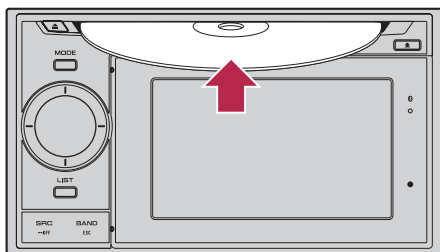
⑬ DETACH button

Press to remove the detachable device from the head unit.

Inserting and ejecting a disc

Inserting a disc

- Insert a disc into the disc loading slot.



- Do not insert anything other than a disc into the disc loading slot.

Ejecting a disc

- Press the EJECT button.

The disc is ejected.

Inserting and ejecting an SD memory card

⚠ CAUTION

- Keep the dummy SD card out of the reach of small children to prevent them from accidentally swallowing it.
- To prevent data loss and damage to the storage device, never remove it from this navigation system while data is being transferred.
- If data loss or corruption occurs on the storage device for any reason, it is usually not possible to recover the data. Pioneer accepts no liability for damages, costs or expenses arising from data loss or corruption.

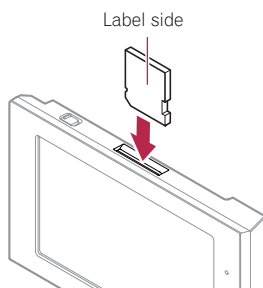
Inserting an SD memory card

1 Remove the detachable device from the head unit.

- ➔ For details, refer to *Removing and attaching the detachable device* on page 15.

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

Insert the card with the contact end first into the top of the detachable device and press the card until it clicks and completely locks.



- This system is not compatible with Multi Media Card (MMC).
- Compatibility with all SD memory cards is not guaranteed.
- This unit may not achieve optimum performance with some SD memory cards.

Before you start

- ❑ Do not insert anything other than SD memory cards or dummy SD cards into the SD card slot.
- ❑ When you insert the SD memory card which contains your customised POI data, the navigation system restarts.

Ejecting an SD memory card

1 Display the "Navigation Menu" screen.

2 Touch [Eject SD].

A message confirming whether to restart the navigation system appears.



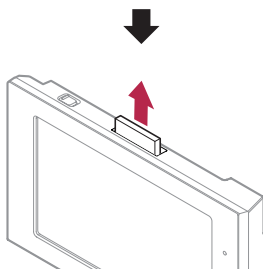
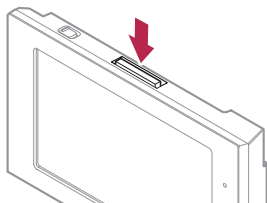
3 Touch [OK].

The navigation system restarts, and the following message appears.



4 Press the SD memory card until it clicks.

The SD memory card is ejected.



5 Pull out the SD memory card.

- ❑ Insert the dummy SD card to keep the SD card slot free of dust when the SD memory card is not inserted.

6 Touch [Restart].

The navigation system restarts. ▣

Plugging and unplugging a USB storage device

⚠ CAUTION

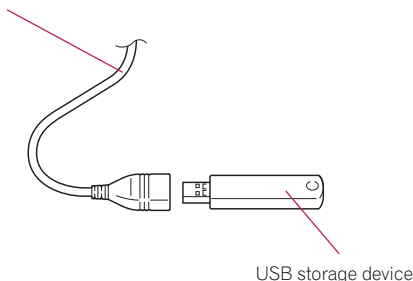
- To prevent data loss and damage to the storage device, never remove it from this navigation system while data is being transferred.
- If data loss or corruption occurs on the storage device for any reason, it is usually not possible to recover the data. Pioneer accepts no liability for damages, costs or expenses arising from data loss or corruption.

Before you start

Plugging in a USB storage device

- Plug a USB storage device into the USB connector.

USB connector



- ❑ Compatibility with all USB storage device is not guaranteed. This navigation system may not achieve optimum performance with some USB storage devices.
- ❑ Connection via USB hub is not possible.

Unplugging a USB storage device

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

Connecting and disconnecting an iPod



CAUTION

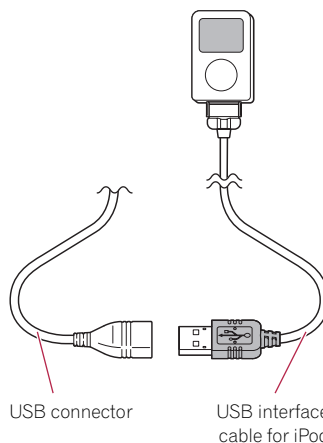
- To prevent data loss and damage to the storage device, never remove it from this navigation system while data is being transferred.
- If data loss or corruption occurs on the storage device for any reason, it is usually not possible to recover the data. Pioneer accepts no liability for damages, costs or expenses arising from data loss or corruption.

Connecting your iPod

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



- ❑ For more details about iPod compatibility with this navigation system, refer to the information on our website.
- ❑ Connection via USB hub is not possible.

- 2 Connect your iPod.

Disconnecting your iPod

- Pull out the USB interface cable for iPod after checking that no data is being accessed. ❑

Protecting your product from theft

The detachable device can be removed from the head unit to discourage theft.

- ➔ For details, refer to *Removing and attaching the detachable device* on page 15.



CAUTION

- Never grip the display and the buttons tightly or use force when removing or attaching.
- Avoid subjecting the detachable device to excessive shocks.

Before you start

- Keep the detachable device out of direct sunlight and high temperatures.
- After removing the detachable device, keep it in a safe place so it is not scratched or damaged.

Flow from startup to termination

1 Start the engine to boot up the system.

- To protect the LCD screen from damage, be sure to use your fingers to touch the touch panel keys. (The stylus is supplied for special calibrations. Do not use the stylus for normal operations.)

2 Turn off the vehicle engine to terminate the system.

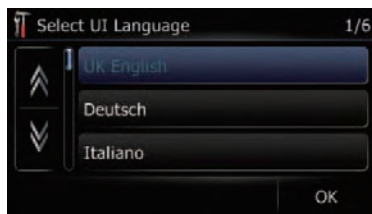
The navigation system is also turned off.

On first-time startup

When you use the navigation system for the first time, select the language that you want to use.

1 Start the engine to boot up the system.

After a short pause, the navigation splash screen appears. And then the "Select UI Language" screen appears.



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

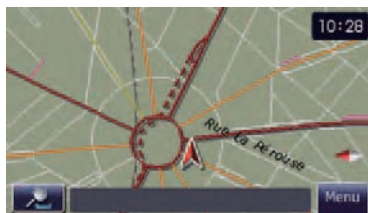
The "Voice Language Selection" screen appears.



3 Touch the language that you want to use for the voice guidance.

The navigation system will now restart.

4 Read the disclaimer carefully, checking its details, and then touch [OK] if you agree to the conditions.



The map screen appears.

Regular startup

• Start the engine to boot up the system.

- The screen shown will differ depending on the previous conditions.
- When there is no route, the disclaimer appears after the navigation system reboots. Read the disclaimer carefully, checking its details, and then touch [OK] if you agree to the conditions.

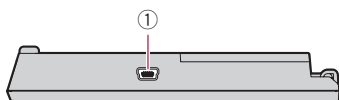
How to use the detachable device

Removing the detachable device from the head unit enables you to set routes and search locations even when you are out of your vehicle.

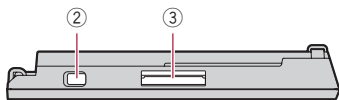
Also, you can connect the detachable device to your PC using the supplied USB cable. This chapter describes how to use the detachable device when not attached to the head unit.

Checking part names and functions

Bottom of the detachable device



Top of the detachable device



- ① **USB connector**
Use to connect with your PC.
- ② **Power switch**
Use to turn the detachable device on and off.
- ③ **SD card slot**
➔ For more detailed information, refer to *Inserting and ejecting an SD memory card* on page 11.

Removing and attaching the detachable device

Removing the detachable device

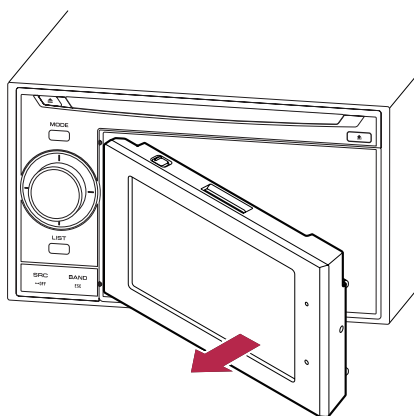
- The head unit can not be operated while the detachable device is removed from the head unit.
- Removing the detachable device automatically turns the audio source off.
- Removing the detachable device while displaying an audio screen automatically

turns the audio source off and switches the display to the map screen.

1 Press DETACH button to release the detachable device.

2 Gently grip the right side of the front panel and slowly pull it outward.

Take care not to drop the detachable device and protect it from contact with water or other fluids to prevent permanent damage.



3 Put the detachable device into the supplied case for safe keeping.

Attaching the detachable device

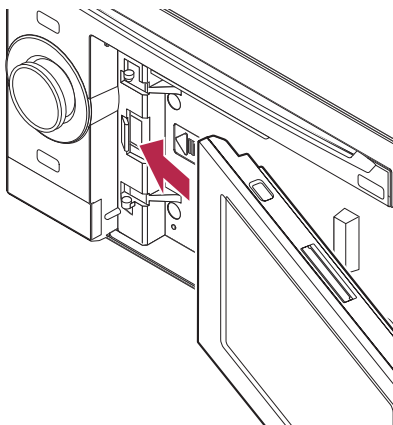
- If the detachable device is turned on before it is attached to the head unit, it will not turn off when the ignition switch is turned off (ACC OFF).

1 Turn off the power of detachable device.

2 Slide the detachable device to the left until it clicks.

The detachable device and the head unit are jointed on the left side. Make sure that the detachable device has been jointed to the head unit.

How to use the detachable device



3 Press the centre on the right side of the detachable device until it is firmly seated.

If you fail to successfully attach the detachable device to the head unit, try again but be careful not to force it as the device could be damaged. ▣

Installing the battery

⚠ CAUTION

- Do not under any circumstances attempt to change the battery yourself.
- The battery should only be changed by Pioneer service personnel. ▣

Disposing of the battery

⚠ WARNING

- Keep the battery pack out of the reach of small children to prevent them from accidentally swallowing it.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

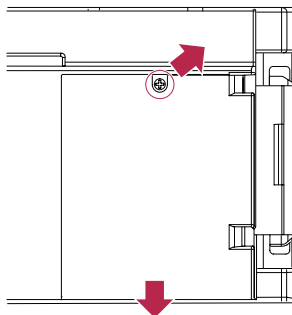
⚠ CAUTION

When disposing of used batteries, please comply with governmental regulations or environmental public institutions' rules that apply in your country/area.

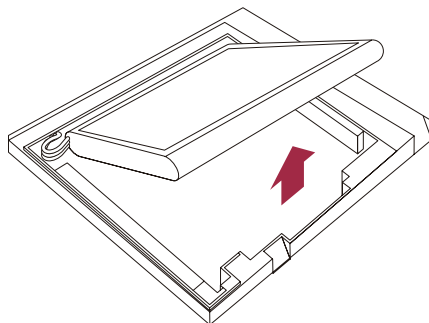
Do not open the cover except when you dispose the battery.

1 Remove the screw in the back of the detachable device.

2 Slide the cover off.

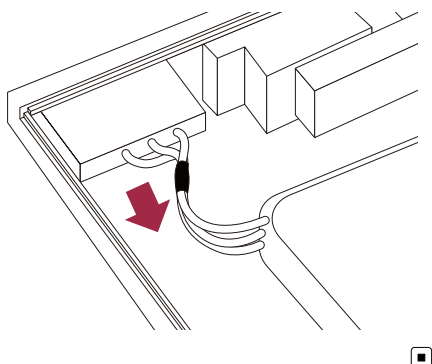


3 Remove the battery.



How to use the detachable device

4 Detach the cable to disconnect the battery.



Turning on the detachable device

If you turn on the detachable device while it is removed from the head unit, the navigation system switches to “Detach mode”.

- ❑ The following functions are not available in “Detach mode”.
 - Voice guidance
 - Auto reroute function
 - Map matching
 - Hands-free phoning
 - Audio functions
- ❑ When the battery of the detachable device is completely run down, the splash screen is displayed the next time the system is booted up. ❑

Charging the battery of detachable device

- The operating temperature range of the battery is from -20°C to $+60^{\circ}\text{C}$.
- The charging temperature range of the battery is from 0°C to $+55^{\circ}\text{C}$.
Charging cannot be done when the temperature is outside of the charging temperature range.

The battery of the detachable device is charged in the following situations.

- When the detachable device is attached to the head unit while the ignition switch is turned on (ACC ON).
- When the detachable device is connected to your PC.
 - ❑ Before charging the detachable device by connecting it to your PC, turn off the power of detachable device. If the power is on, the battery may not be charged.
 - ❑ When connected to your PC, the battery may not be charged depending on the setting of the screen brightness. Before charging the detachable device by connecting it to your PC, set the screen brightness to a low level.
 - ➔ For details, refer to *Adjusting the screen brightness* on page 69. ❑

Monitoring the battery status




You can check the battery status of the detachable device.

- 1 Display the “Navigation Menu” screen.
- 2 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

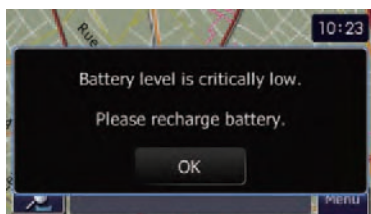
	Fully charged
	Sufficient power
	Charging

Automatic shutdown of the navigation system

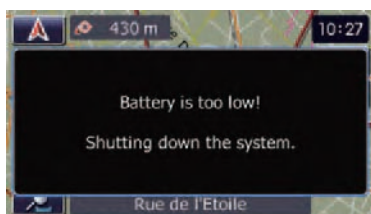
When the battery of detachable device nearly runs out, the navigation system automatically turns off.

When the detachable device is turned on again after charging the battery, it returns to the last system status.

- 1 A message appears when the remaining battery life is getting low.



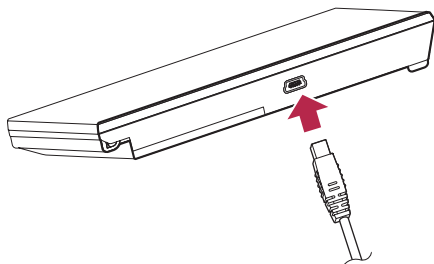
- 2 When the battery nearly runs out, a message appears and the navigation system automatically turns off.



Connecting with your PC

You can connect the detachable device and your PC using the USB cable (supplied with the navigation system).

- 1 Connect the supplied USB cable to USB connector.

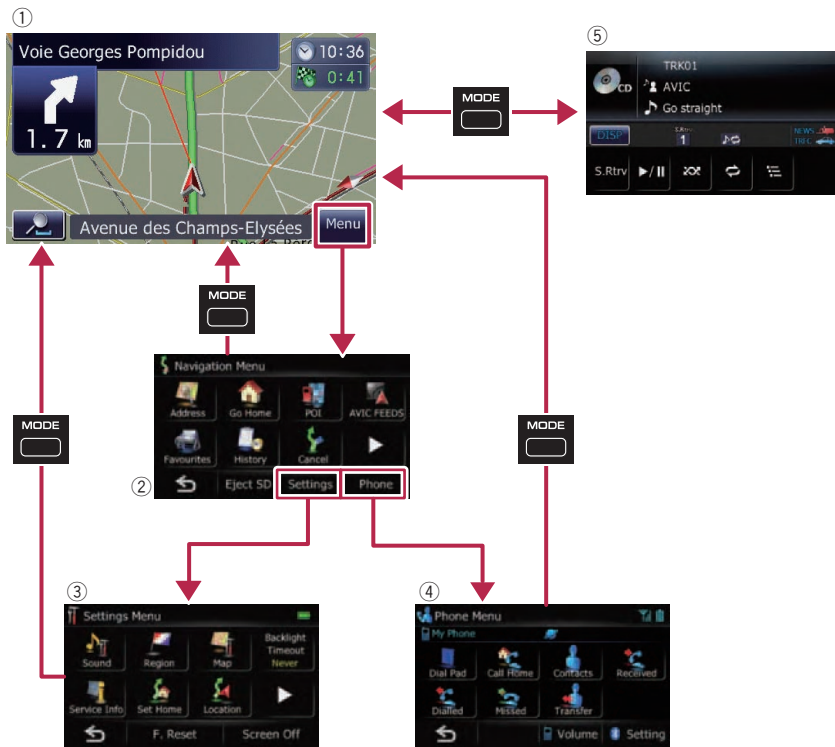


- 2 Connect the supplied USB cable to your PC. ■



How to use the detachable device

How to use the detachable device

Screen switching overview

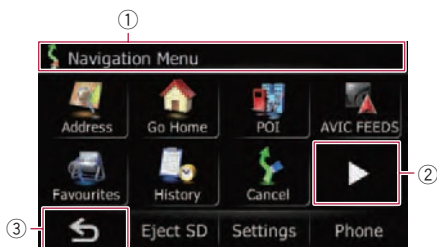


What you can do on each menu

- ① **Map screen**
Press the **MODE** button to display the navigation map screen.
- ② **"Navigation Menu"** screen
You can search for your destination on this menu. You can also check or cancel your set route from this menu.
- ③ **"Settings Menu"** screen
You can access the screen to customise settings.
- 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 **Audio operation screen**
When you play an audio source, this screen appears normally.
 - To return to the previous screen, touch  

How to use the navigation menu screens

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



① **Screen title**

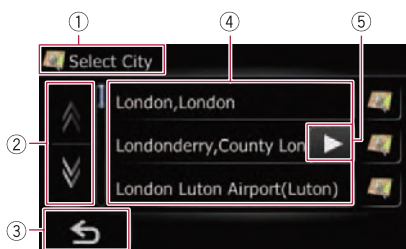


Shows the next or previous page.



Returns the previous screen.

Operating list screens (e.g. city list)



① **Screen title**



Touching or on the scroll bar scrolls through the list and allows you to view the remaining items.



Returns the previous screen.

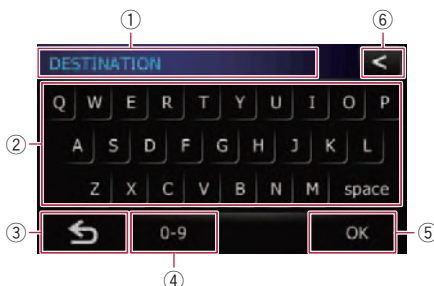
④ **Listed items**

Touching an item on the list allows you to narrow down the options and proceed to the next operation.



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.

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.



Returns the previous screen.

④ **[0-9], [Sym.], [Others]:**

You can enter other characters of alphabet. You can also enter text with marks such as [&] or [+] or numbers.

Touch to toggle the selection.

When 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.

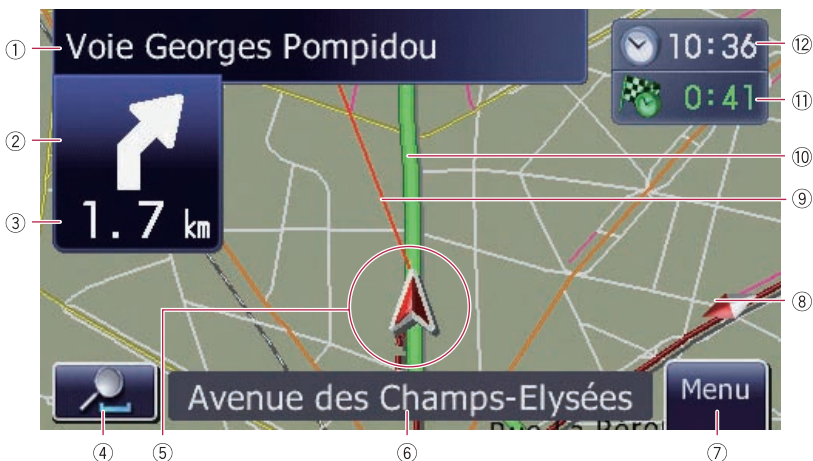


Deletes the input text one letter at a time, beginning at the end of the text. Continuing to touch the button deletes all of the text.

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 the mark (*) 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 **Zoom in/Zoom out**

Touching  displays touch panel keys for changing the map scale and the map orientation.

⑤ **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.

⑥ **Street name (or city name) that your vehicle is travelling along**

➔ For details, refer to *Setting the current street name display* on page 29.

⑦ **Menu key**

⑧ **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 page 24.

⑨ **Direction line***

How to use the map

The direction towards your destination (next waypoint, or cursor) is indicated with a straight line.

⑩ Current route*

The route currently set is highlighted in bright colour on the map. If a waypoint is set on the route, the route after the next waypoint is highlighted in another colour.

⑪ Multi-Info window

Each touch of [Multi-Info window] changes the display information.

- **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***

⑫ 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.

Displaying the audio information bar

You can check the current status on the selected 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 "Close Up View"* on page 28.

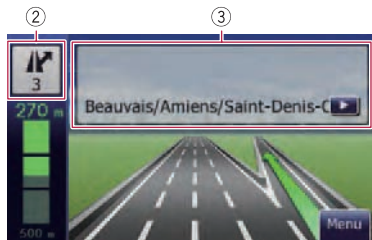
Display during motorway driving

In certain locations of the motorway, lane information is available, indicating the recommended lane to be in to easily manoeuvre the next guidance.



How to use the map

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



① Lane information

② Motorway exit information

Displays the motorway exit.

③ Motorway 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.



Operating the map screen

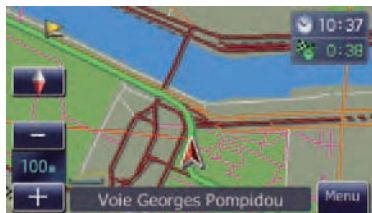
Changing the scale of the map

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

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 display is automatically returned.

Switching the map orientation

You can switch the vehicle's direction on the map 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" in the following situation.
 - When the map scale is 50 kilometres (25 miles) or more.
- The map orientation is fixed at "Heading up" in the following situation.
 - 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.

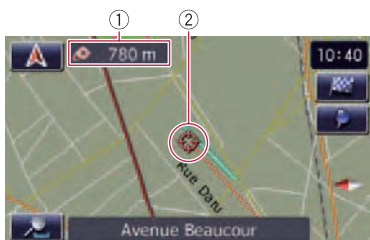
Each time you touch the key changes that setting.

How to use the map

- ❑ If you do not operate the function for a few seconds, the display is automatically returned.

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 in a brief informational overview about the location being displayed at the bottom of screen, with street name and other information for this location being shown. (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. .

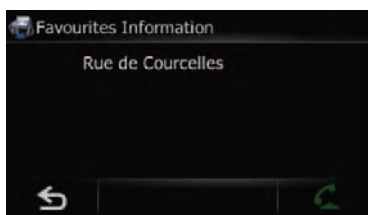
Viewing information about a specified location

An icon appears at registered places (home location, specific places, **Favourites** entries) and places where there is a POI icon or traffic information 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 .
- 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 “Favourites” icon display* on page 28.
- For details, refer to *Displaying POI on the map* on the next page.
- For details, refer to *How to read traffic information on the map* on page 49.
- For details, refer to *Dialling from the map* on page 59.

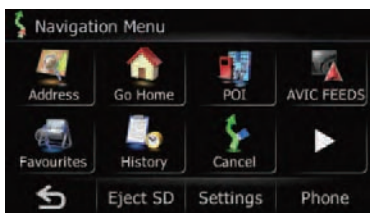
Customising the map screen settings

The general settings related with a map screen can be customised.

To customise the map screen, display the “**Map**” screen.

- 1 Touch **[Menu]** on the map screen.
- The “**Navigation Menu**” screen appears.

How to use the map



2 Touch [Settings].

The “Settings Menu” screen appears.



3 Touch [Map].

The “Map” screen appears.



Displaying POI on the map

Displays icons for the surrounding facilities (POI) on the map.

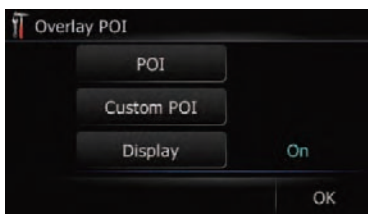
- POI icons are not displayed when the map scale is 2 kilometres (1 mile) or more.
- You can select up to 10 items from the detailed category.
- Creating a customised POI is possible by using the utility programme “NavGate FEEDS” which is available separately, on your PC. (“NavGate FEEDS” will be available on our website.) Store the customised POI into the SD memory card properly, and then insert it to the SD card slot. By select-

ing the POI icon, the system displays it on the map screen.

1 Display the “Map” screen.

2 Touch [Overlay POI].

The “Overlay POI” screen appears.



3 Touch [Display] to turn it [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.)

4 Touch [POI].

The “Overlay POI (Main Category)” screen appears.



5 Touch the category you want to display.

A list of subcategories under the selected main category appears.




- Touch [OK].

How to use the map

Returns previous screen.


6 Touch the subcategory.

A red tick mark appears next to the selected category. To cancel the selection, touch the entry again.

- If you want to search with more detailed categories, touch .

Touch the item and touch [OK]. When only a few types of the detailed categories are selected, blue tick marks will appear.



- When subcategory is selected,  is not available.

7 Touch [OK].

Returns previous screen.

8 To finish the selection, touch [OK].

Switching the map between 2D and 3D

Various types of screen displays can be selected for navigation guidance.

2D map screen



3D map screen



1 Display the "Map" screen.

2 Touch [View Mode].

Each time you touch the key changes that setting.

- [2D] (default):
Displays the 2D map screen.
- [3D Detection]:
Displays the 3D map screen.

Displaying manoeuvres

Selects whether to display or hide the next turn ahead of the vehicle on the map.

1 Display the "Map" screen.

2 Touch [Show Manoeuvre].

Each time you touch the key changes that setting.

- [View] (default):
Displays the next turn ahead of the vehicle on the map.
- [Hide]:
Hides the next turn ahead of the vehicle on the map.

Setting the map colour 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 colour.

1 Display the "Map" screen.

How to use the map

2 Touch [Day/Night Display].

Each time you touch the key changes that setting.

- **[Automatic]** (default):
You can change the colours 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 colours.
- ☐ To use this function with **[Automatic]**, the Orange/white lead of the navigation system must be connected correctly.

Changing the road colour

You can set the road colour to bluish or red-dish.

1 Display the "Map" screen.

2 Touch [Road Colour].

Each time you touch the key changes that setting.

- **[Red]** (default):
Changes to red based road colours.
- **[Blue]**:
Changes to blue based road colours.

Setting "Close Up View"

This setting enables switching to an enlarged map around the point where your vehicle is approaching an intersection, entrance/exit of motorway or a junction.

1 Display the "Map" screen.

2 Touch [Close Up View].

Each time you touch the key changes that 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 "Favourites" icon display

You can select whether to display the "Favourites" icon on the map.

1 Display the "Map" screen.

2 Touch [Favourites Icon].

Each time you touch the key changes that setting.

- **[On]** (default):
Displays the "Favourites" icon on the map.
- **[Off]**:
Hides the "Favourites" icon on the map.

Setting the speed limit display

Selects whether to display or hide the speed limit of the current road.



Speed Limit

1 Display the "Map" screen.

2 Touch [Show Speed Limit].

Each time you touch the key changes that setting.

- **[View]**:
Displays the speed limit on the map.
- **[Hide]** (default):
Hides the speed limit on the map.

Selecting traffic information to display

Selects whether to display or hide the traffic notification icons on the map when incidents occur on your route.

1 Display the "Map" screen.

How to use the map

2 Touch [Traffic Incident].

Each time you touch the key changes that setting.

- **[View]** (default):
Displays the icons on the map.
- **[Hide]**:
Hides the icons on the map.
- The notification icons will not be available when your vehicle deviates from the route.

Does not switch the screen.

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 "Map" screen.

2 Touch [Current Street].

Each time you touch the key changes that setting.

- **[View]** (default):
Displays the street name (or city name) on the map.
- **[Hide]**:
Hides the street name (or city name) on the map.

Changing the setting of navigation interruption screen

Set whether to automatically switch to the navigation screen from the audio screen when your vehicle approaches a guidance point such as an intersection while displaying a screen other than navigation.

1 Display the "Map" screen.

2 Touch [AV Guide Mode].

Each time you touch the key changes that setting.

- **[On]** (default):
Switches from the audio operation screen to the navigation screen.
- **[Off]**:

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 handbrake 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 handbrake.**
- 2 **Display the "Navigation Menu" screen.**
- 3 **Select the method of searching for your destination.**
 - ➔ For details, refer to *Searching for and selecting a location* on page 37.
- 4 **Enter the information about your destination to calculate route.**
- 5 **Confirm the location on the map.**
 - ➔ For details, refer to *Checking the location on the map* on this page.
- 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 *Checking the calculated route* on this page.

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

9 **After releasing the handbrake, drive in accordance with navigation guidance.** □

Checking the location on the map

After searching for the destination, the "Location confirmation screen" appears.

Location confirmation screen



● Touch [OK].

The destination is set, and then route calculation starts.

- If you press **MODE** button during route calculation, the calculation is cancelled and the map display 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.

- ➔ For details, refer to *Registering a location by scroll mode* on page 74.

■ Touch [Waypoint].

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

- If a destination is not set, [Waypoint] is not available. □

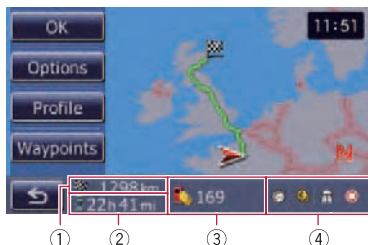
Checking the calculated route

After the destination is set, route calculation starts.

Setting a route to your destination

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


Route confirmation screen



- ① Distance to the destination
- ② Travel time to your destination
- ③ Estimate the fuel cost to your destination
 - ➔ For details, refer to *Inputting the fuel consumption information for calculating the fuel cost* on page 67.
- ④ Route calculation condition

● Touch [OK].

Sets the displayed route as your route, and starts the route guidance.

- Touch .

The message confirming whether to cancel the calculated route appears.

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

Modifying the route calculation conditions

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

1 Touch [Options] on the “Route confirmation screen”.

The “Route Options” screen appears.



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

The route is recalculated, and “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 or the distance or the 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]:

Calculate a route that passes major arterial road as a priority.

Avoid Toll Road

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

[Off]*:

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

[On]:

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

- The system may calculate a route that includes toll road even if **[On]** is selected.

Avoid Ferry

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

[Off]*:

Calculate a route that may include ferries.

[On]:

Calculate a route that avoids ferries.

Setting a route to your destination

- The system may calculate a route that includes ferry way even if **[On]** is selected.

Avoid Motorway

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

[Off]*:

Calculate a route that may include motorways.

[On]:

Calculate a route that avoids motorways.

- The system may calculate a route that includes motorway even if **[On]** is selected.

Time restrictions

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

- If you want to set your route to avoid opened bridges, select **[On]**.

[On]*:

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

[Off]:

Calculate 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

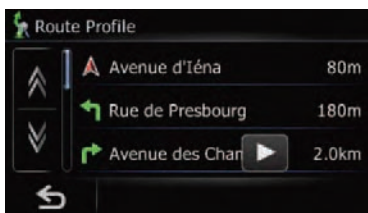
If the time difference is not set correctly, the navigation system cannot consider traffic regulations correctly. Set the time difference correctly (➔ Refer to *Setting the time difference* on page 65).

Checking the current itinerary

You can check the route details.

- **Touch [Profile] on the “Route confirmation screen”.**

The **“Route Profile”** screen appears.



- When a long distance route is calculated, your navigation system may not be able to list all roads. (In this case, the remaining roads will be shown in the list as you drive on.)

Adding a waypoint

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

- When you set waypoints in the route to your destination, the route up to the next waypoint will appear in light green. The rest of the route will appear in light blue.
- ➔ For details concerning operations, refer to *Adding a waypoint* on page 34.

1 Touch [Waypoints] on the “Route confirmation screen”.

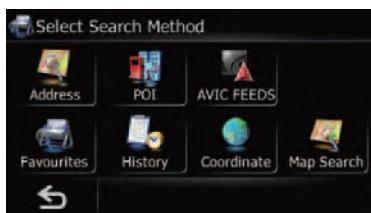
The **“Waypoints List”** screen appears.



2 Touch [Add].

The **“Select Search Method”** screen appears.

Setting a route to your destination



3 Search for a location.

After searching for a point, display it on a map, then touch [OK] to add to the “Waypoints List” screen.



➔ For details, refer to *Searching for and selecting a location* on page 37.

4 Touch [OK] on the “Waypoints List” screen.

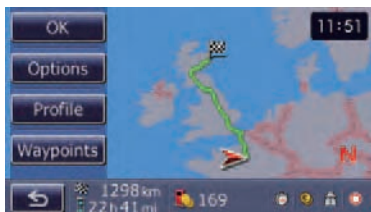
“Route confirmation screen” appears.

You can check the route details. You can also recalculate the route in different conditions.

1 Display the “Navigation Menu” screen.

2 Touch [Route info].

“Route confirmation screen” appears.



- [Route info] is active only when the route is set.

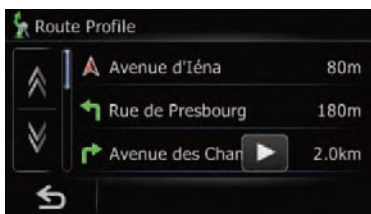
Checking the current itinerary

You can check the route details.

1 Display the “Route confirmation screen”.

2 Touch [Profile] on the “Route confirmation screen”.

The “Route Profile” screen appears.



- When a long distance route is calculated, your navigation system may not be able to list all roads. (In this case, the remaining roads will be shown in the list as you drive on.)

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.

To edit the waypoints, display the “Waypoints List” screen.

1 Display the “Route confirmation screen”.

2 Touch [Waypoints] on the “Route confirmation screen”.

The “Waypoints List” screen appears.



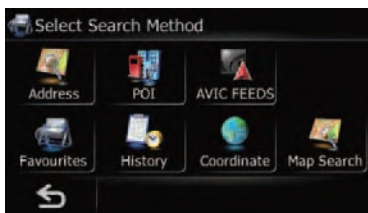
Adding a waypoint

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

1 Display the “Waypoints List” screen.

2 Touch [Add].

The “Select Search Method” screen appears.



3 Search for a location.

After searching for a point, display it on a map, then touch [OK] to add to the “Waypoints List” screen.

Checking and modifying the current route



➔ For details, refer to *Searching for and selecting a location* on page 37.

4 Touch [OK] on the “Waypoints List” screen.

“Route confirmation screen” appears.

5 Touch [OK].

The route is recalculated and the map of the current position appears.

Deleting a waypoint

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

1 Display the “Waypoints List” screen.

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

The touched waypoint will be deleted from the list.

3 Touch [OK] on the “Waypoints List” screen.

“Route confirmation screen” appears.

4 Touch [OK].

The route is recalculated and 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 “Waypoints List” screen.

2 Touch [Sort].

The “Sort Waypoints” screen appears.



3 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].

The sorting waypoints is cancelled.

4 Touch [OK].

The “Waypoints List” screen appears.

5 Touch [OK] on the “Waypoints List” screen.

“Route confirmation screen” appears.

6 Touch [OK].

The route is recalculated and the map of the current position appears.

Modifying the route calculation conditions

The settings related to route calculation can be customised.

1 Display the “Route confirmation screen”.

2 Touch [Options].

The “Route Options” screen appears.



- For details concerning operations, refer to *Modifying the route calculation conditions* on page 31.

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 “Navigation Menu” screen.

2 Touch [Settings].

The “Settings Menu” screen appears.



3 Touch [Demo Mode].

Each time you touch the key changes that setting.

- [On]: Repeat demo drive.
- [Off] (default): Demo Mode is set off.

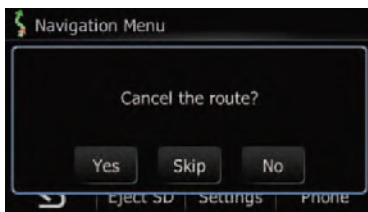
Canceling the route guidance

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

1 Display the “Navigation Menu” screen.

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 can be 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].

Returns to the previous display without deleting the route.

Searching for and selecting a location

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 handbrake 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.

Searching for a location by address

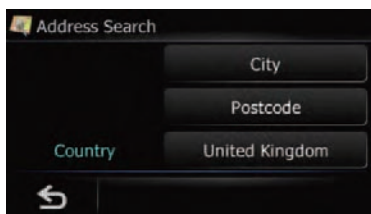
The most frequently used function is [Address], in which the address is specified and the location is searched.

- ❑ Depending on the search results, some steps may be skipped.

1 Display the “Navigation Menu” screen.

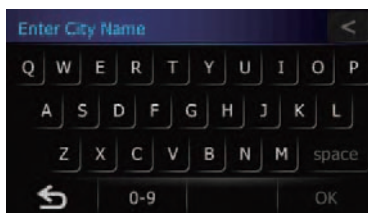
2 Touch [Address].

The “Address Search” screen appears.



3 Touch [City].

The “Enter City Name” screen appears.




- Touch the key next to “Country” to select the country.

If the location that you want to search for is in another country, this changes the country setting.

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

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

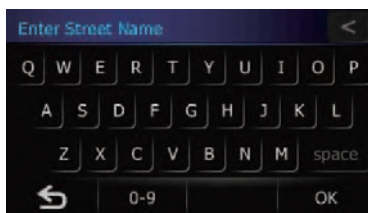
The “Select City” screen appears.

- ❑ You can search for the city name by keyword.
 - ➔ For details, refer to *Searching for a name by entering multiple keywords* on the next page.
- Touch .

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

5 Touch the desired city name.

The “Enter Street Name” screen appears.



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

The “Select Street” screen appears.

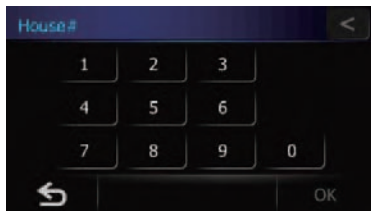
- ❑ You can search for the street name by keyword.

Searching for and selecting a location

- ➔ For details, refer to *Searching for a name by entering multiple keywords* on this page.

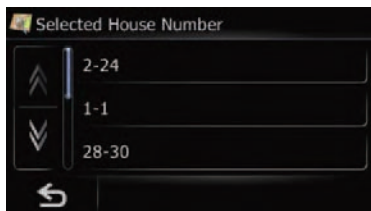
7 Touch the desired road.

The “House#” screen appears.



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

The “Selected House Number” screen appears.



9 Touch the desired house number range.

The searched location appears on the map screen.

Searching for a name by entering multiple keywords

You can search for a name (such as a city name or a street name) by entering multiple keywords.

- Up to three keywords can be entered.
- Enter a space between keywords as you want to enter several ones.

The result of search depends on the number of the entered keywords.

Entering a keyword

All names containing the word beginning with entered keyword are displayed as a search result.

Entering two keywords

The names including the following two words below are displayed as a result:

- The word that matches with the first keyword you entered.
- The word beginning with the second keyword.

Entering three keywords

The names including the following two words below are displayed as a result:

- The words that match with both first and second keywords you entered.
- The word beginning with the third keyword, e.g. Searching “**City of London**”.

Entered keywords	Search results
CITY L	“City of London” is searchable.
OF L	“City of London” is searchable.
CITY OF L	“City of London” is searchable.
OF LONDON C	“City of London” is searchable.
C O L	“City of London” is not searchable.
C OF LONDON	“City of London” is not searchable.



Finding the location by specifying the postcode

If you know the postcode of the location that you want to find, you can use it to find the location.

1 Display the “Navigation Menu” screen.

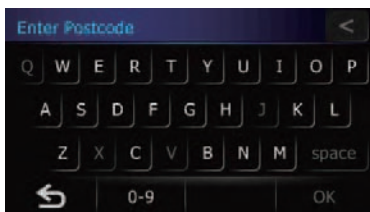
2 Touch [Address].

The “Address Search” screen appears.

Searching for and selecting a location

3 Touch [Postcode].

The “**Enter Postcode**” screen appears.



- Touch the key next to “**Country**” to select the country.

If the location that you want to find is in another country, this changes the country setting.

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

4 Input the postcode and then touch [OK].

The “**Select City**” screen appears.

- A list of cities with the specified postcode is shown (except for the following cases).

British postcode:

The searched location appears on the map screen.

Netherlands postcode:

— If you input a partial postcode (4 digits), and touch [OK], a list of cities is shown. Proceed to Step 5.

— If you input a complete postcode (6 digits), a list of street is shown. Select the street.

Proceed to Step 7.

5 Touch the city or area where the location you want to find is located.

The “**Enter Street Name**” screen appears.

- Touch .

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

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

The “**Select Street**” screen appears.


If there is no house number, the searched location appears on the map screen.

7 Touch the desired road.

The “**House#**” screen appears.

If the selected street has only one matching location, the searched location appears on the map screen.

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

The searched location appears on the map screen. .

Setting up a route to your home

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


1 Display the “Navigation Menu” screen.

2 Touch [Go Home].

If the home location has not been stored yet, the confirmation message appears.

- Touch [Register].

The “**Set Home**” screen appears.

- ➔ For details, refer to *Registering and editing your home* on page 45. .

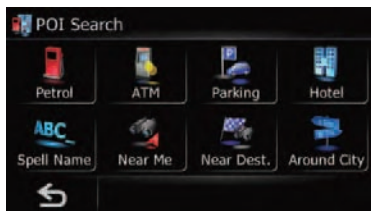
Searching for Points of Interest (POI)

Information about various facilities (Points of Interest - POI), such as petrol stations, car parks or restaurants, is available. You can search for a POI by selecting the category (or entering the POI Name).

1 Display the “Navigation Menu” screen.

2 Touch [POI].

The “**POI Search**” screen appears.



Searching for POIs by specifying a category first

You can search for POIs with one touch by touching the preset category.

1 Display the “POI Search” screen.

2 Touch the desired category.

The “POI List” screen appears.

3 Touch the POI you want.

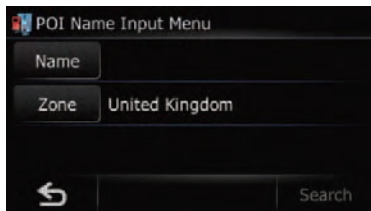
The searched location appears on the map screen.

Searching for a POI directly from the name of the facilities

1 Display the “POI Search” screen.

2 Touch [Spell Name].

The “POI Name Input Menu” screen appears.



3 Touch [Zone].

The “Country List” screen appears.

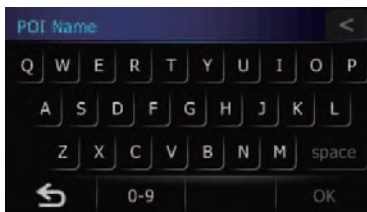
If the location that you want to search for is in another country, this changes the country setting.

- Once the country has been selected, you only have to change countries when the lo-

cation that you want to search for is outside of the country you selected.

4 Touch [Name].

The “POI Name” screen appears.



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

The “POI Name Input Menu” screen appears.

- You can search for a POI name by keyword.
 - ➔ For details, refer to *Searching for a name by entering multiple keywords* on page 38.

6 Touch [Search].

The “POI List” screen appears.

7 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 displayed on the upper right of the screen.
 - : Sorts the items in the list in order by distance from the vehicle position.
 - : Sorts the items in the list alphabetically.

Searching for a nearby POI

You can search for POIs in your surroundings.

1 Display the “POI Search” screen.

2 Touch [Near Me].

POI's are divided into several categories.

Searching for and selecting a location

3 Touch the category you want.

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

4 Touch the POI you want.

The searched location appears on the map screen.

Searching for POIs around the destination

- ☐ This function is available when the route is set.

1 Display the “POI Search” screen.

2 Touch [Near Dest.].

POI's are divided into several categories.

3 Touch the category you want.

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

4 Touch the POI you want.

The searched location appears on the map screen.

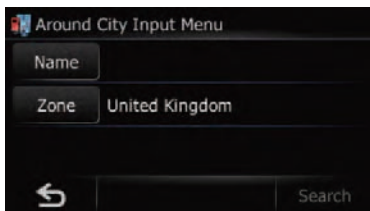
Searching for POIs around the city

You can search for POIs around a specified city.

1 Display the “POI Search” screen.

2 Touch [Around City].

The “**Around City Input Menu**” screen appears.



3 Touch [Zone].

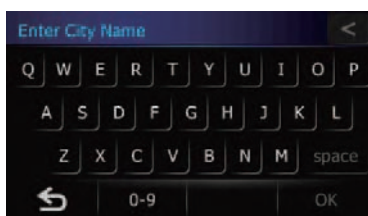
The “**Country List**” screen appears.

If the location that you want to search for is in another country, this changes the country setting.

- ☐ 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.

4 Touch [Name].

The “**Enter City Name**” screen appears.



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

The “**Around City Input Menu**” screen appears.

- ☐ You can search for the city name by keyword.
 - ➔ For details, refer to *Searching for a name by entering multiple keywords* on page 38.

6 Touch [Search].

The “**Select City**” screen appears.

7 Touch the desired city name.

POI's are divided into several categories.

- Touch .

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

8 Touch the category you want.

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

9 Touch the POI you want.

The searched location appears on the map screen. ☐

Selecting destination from “Favourites”

Storing locations you visit frequently saves time and effort.

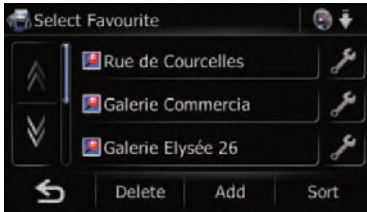
Selecting an item from the list provides an easy way to specify the position.

- ❑ This function is not available when there is no registered location in “Favourites”.
- ➔ For details, refer to *Registering a location into “Favourites”* on page 44.

1 Display the “Navigation Menu” screen.

2 Touch [Favourites].

The “Select Favourite” screen appears.



3 Touch the entry you want.

The searched location appears on the map screen. ◻

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

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

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

- ➔ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 11.

2 Display the “Navigation Menu” screen.

3 Touch [AVIC FEEDS].

The “Select List” screen appears.

4 Touch the folder you want on the list.

The “Select POI” screen appears.

5 Touch the POI you want.

The searched location appears on the map screen. ◻

Selecting a location you searched for recently

The places that you have searched for in the past are automatically stored in “History”.

- ❑ 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 Display the “Navigation Menu” screen.

2 Touch [History].

The “Destination History” screen appears.



3 Touch the entry you want.

The searched location appears on the map screen. ◻

Searching for and selecting a location

Searching for a location by coordinates

Entering a latitude and longitude pinpoints the location.

1 Display the “Navigation Menu” screen.

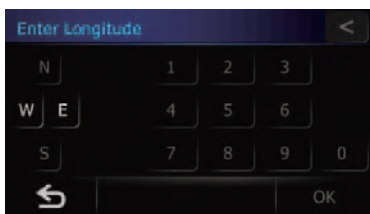
2 Touch [Coordinate].

The “Coordinate Input Menu” screen appears.



3 Touch [Longitude].

The “Enter Longitude” screen appears.

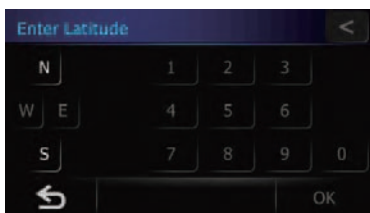


Enter the longitude, and then touch [OK].
The screen returns to the previous screen.

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

4 Touch [Latitude].

The “Enter Latitude” screen appears.



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].

5 Touch [OK].

The searched location appears on the map screen. □


Searching for a location by scrolling the map

Specifying a location after scrolling the map enables you to set the position as destination, waypoint, or register the location to “Favourites”.

1 Display the map screen.

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

The searched location appears on the map screen.

- When searching for a destination or waypoints, touch . □

Registering a location into “Favourites”

Registering a location by “Favourites”

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

1 Display the “Navigation Menu” screen.

2 Touch [Favourites].

The “Select Favourite” screen appears.

3 Touch [Add].

The “Select Search Method” screen appears.

4 Search for a location.

- ➔ For details, refer to *Searching for and selecting a location* on page 37.

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

The location is registered, and then the “Edit Favourite” screen appears.

- ➔ For details, refer to *Editing the entry in “Favourites”* on this page.

6 Touch [OK].

The registration is completed.

Registering a location by scroll mode

1 Scroll to the location you want to register.



Cursor

2 Touch [OK].

The location is registered, and then the “Edit Favourite” screen appears.

- ➔ For details, refer to *Editing the entry in “Favourites”* on this page.

3 Touch [OK].

The registration is completed. □

Editing registered locations

Editing the entry in “Favourites”

1 Display the “Navigation Menu” screen.

2 Touch [Favourites].

The “Select Favourite” screen appears.

3 Touch [OK] next to the location that you want to edit.

The “Edit Favourite” screen appears.



4 Touch [Name].

You can enter the desired name.

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

▪ Touch [Phone #].

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

- ➔ For details, refer to *Dialling the entry in the “Favourites”* on page 58.

▪ Touch [Icon].

The symbol displayed on the map and “Favourites”.

▪ Touch [Modify Location].

You can change the registered location by scrolling the map.

Registering and editing locations

Sorting the entry in “Favourites”




1 Display the “Navigation Menu” screen.

2 Touch [Favourites].

The “Select Favourite” screen appears.

3 Touch [Sort].

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

- Current order is displayed on the upper right of the screen.
-  :
Sorts the items in the list in order by distance from the vehicle position.
-  :
Sorts the items in the list alphabetically.
-  :
Sorts the items in the list in order of the recently used items.

Deleting the entry in “Favourites”

1 Display the “Navigation Menu” screen.

2 Touch [Favourites].

The “Select Favourite” screen appears.

3 Touch [Delete].

The “Delete from Favourites” screen appears.



4 Select the location you want to delete.
A tick mark appears by the selected location.



▪ Touch [All].

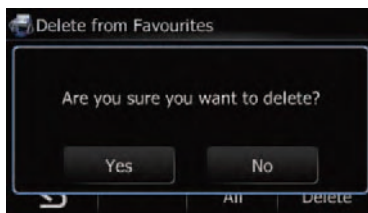
Selects all entries.

▪ Touch [None].

Displayed when all locations are selected. Cancels all selected locations.

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

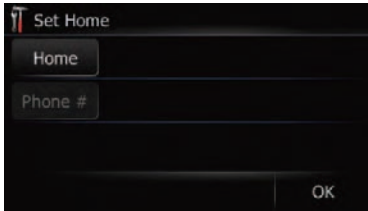
1 Display the “Navigation Menu” screen.

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 *Searching for and selecting a location* on page 37.

6 Touch [Phone #].

You can register your home phone number.

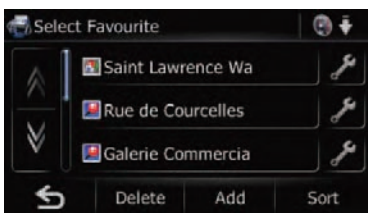
7 Touch [OK].

The registration is completed.

Editing your home**1 Display the “Navigation Menu” screen.****2 Touch [Favourites].**

The “Select Favourite” screen appears.

- ☐ Home location is displayed on the top of the list.

**3 Touch [] next to the home location.**

The “Edit Favourite” screen appears.



- Touch [Phone #].

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

- ➔ For details, refer to *Making a call home easily* on page 56.

- Touch [Modify Location].

You can change the registered location by scrolling the map.

4 Touch [OK].

The registration is completed. []

Deleting an entry in “History”

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

1 Display the “Navigation Menu” screen.**2 Touch [History].**

The “Destination History” screen appears.

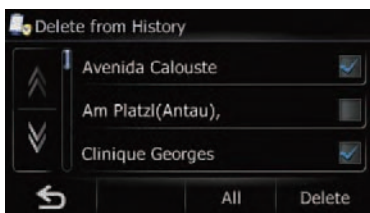
3 Touch [Delete].

The “Delete from History” screen appears.

**4 Select the location you want to delete.**

A tick mark appears by the selected location.

Registering and editing locations



- Touch **[All]**.

Selects all entries.

- Touch **[None]**.

Displayed when all locations are selected. Cancels all selected locations.

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.

You can check real-time traffic information transmitted by the Traffic Message Channel (TMC) of the FM Radio Data System (RDS) on the screen. Such traffic information is updated periodically. When the navigation system receives updated traffic information, the navigation system will overlay the traffic information on your map and also display detailed text information when available. When you are travelling along a route and there is traffic information on your current route, the system will detect it and ask you if you would like to be rerouted, or suggest another route automatically.

- ❑ The system acquires the traffic information up to 150 km in radius from the vehicle position. (If there is a lot of traffic information around your vehicle, the radius will be shorter than 150 km.)
- ❑ The navigation system provides the following functions by using the information from RDS-TMC service:
 - Displaying a list of traffic information
 - Displaying traffic information on a map
 - Suggesting a route to avoid traffic jams by using traffic information
- ❑ The term “traffic jam” in this section indicates the following types of traffic information: slow, queuing and stationary traffic and closed/blocked roads. This information is always taken into consideration when checking your route, and the information related with these events cannot be turned off. If you select other traffic information in [Traffic Settings], the information can be displayed in a list or on a map.
 - For details, refer to *Selecting traffic information to display* on page 51.

1 Display the “Navigation Menu” screen.

2 Touch [Traffic].

The “Traffic Menu” screen appears.

Checking all traffic information

All traffic information on the current route is displayed on screen in a list.

1 Display the “Traffic Menu” screen.

2 Touch [Traffic List].

The “Traffic Event List” screen appears. The list with received traffic information is shown.



3 Select an incident you want to view in detail.

The details of the selected incident are displayed.

- ❑ Touching an incident you want to see allows you to view the detailed information of the incident. If the information cannot be displayed on one screen, touch or to view the remaining information.
- Touch [Sort].

You can sort the traffic information.

Each time you touch the key changes that setting.



- You can sort the traffic information by distance from your current position. For the list displayed when you touch [Traffic List], the list will be sorted according to the linear distance from the vehicle position to the traffic information. For the list displayed when you touch [Traffic On Route], the list will be sorted according to the distance from the vehicle position to the traffic information.



Using traffic information

You can sort the traffic information in alphabetical order.

- :


You can sort the traffic information according to the incident.


The list will be sorted in the order of closed/blocked roads, traffic jam, accidents, road works and others.

Current order is displayed on the upper right of the screen.

- Touch **[Refresh]**.

When new traffic information is received, current information is changed or old information has been removed, the list is updated to reflect the new situation.

- Touch .

Touching  allows you to check the location on a map. (Traffic information without positional information cannot be checked on a map.)


- 4 Touch .

Return to the previous screen. .

Checking traffic information on the route

All traffic information on the current route is displayed on screen in a list.

- Touch **[Traffic On Route]**.

The “**Traffic On Route List**” screen appears. The method for checking the content displayed on the screen is the same for “*Checking all traffic information*”. .

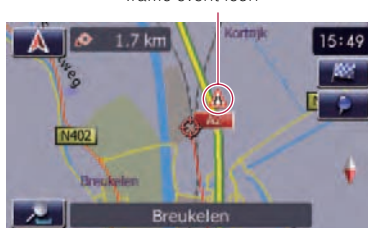
How to read traffic information on the map






The traffic event information displayed on the map is as follows.

- A line is displayed only when the map scale is 5 km (2.5 miles) or lower.
- Icon appears only when the scale on the map is 20 km (10 miles) or lower. If the

scale is changed, the icons are resized according to the selected scale.

Traffic event icon



-  with yellow line: Stop-and-go traffic
-  with red line: Stopped traffic
-  with black line: Closed/blocked roads
-  etc.: Accidents, constructions, etc. 

Setting an alternative route to avoid traffic jams

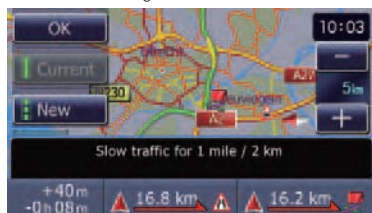
The navigation system checks whether or not there is the traffic information on your route at regular time intervals. If the navigation system detects any traffic jams on your current route, the system tries to find a better route in the background.

- The following types of traffic incidents on the route will be checked: slow, queuing and stationary traffic, and closed/blocked roads.

Checking for traffic jams automatically

If there is information about traffic jam on your current route and if an alternative route can be found, the navigation system will recommend a new alternative route automatically. In such a case, the following screen will appear.

Difference in distance and travel time between the existing route and new route.



Distance from the current position of your vehicle to the point of entry into the new route.

- There is no action if the system cannot find any traffic jam information on your route or the system cannot find an alternative.

1 Touch [New].

The recommended route is displayed on the screen.

- Touch [Current].

The current route is displayed on the screen.

2 Touch [OK].

The displayed route is set.

- When no selection is made, the screen returns to previous screen.

Checking traffic information manually

Touching the notification icon on the map screen allows you to check traffic information on your route while icon is displayed. The notification icon is only displayed on the navigation map screen if there is any traffic information on your route.

- The notification icon will not be available when your vehicle deviate from the route.

1 Set [Traffic Incident] to [View].

- For details, refer to *Selecting traffic information to display* on page 28.

2 Display the map screen.

The icon appears when the system acquires traffic information on the current route.

Notification icon



3 Touch the icon while the icon is displayed.

Traffic information on the current route is displayed on the map screen.



4 Touch [Diversion] to search for an alternative route.

After touching [Diversion], the route is recalculated taking all traffic jams on your current route into account.

- [Diversion] will be enable only when the system can find "traffic jam".
- "Notification icon" shows the nearest traffic information on the route. However, if you touch [Diversion], the route is recalculated by taking into account not only this information, but also all traffic jam information on the route.

For the subsequent operations, see "*Checking for traffic jams automatically*".


Using traffic information

➔ For details, refer to *Checking for traffic jams automatically* on the previous page.

- Touch **[List]**.

The “**Traffic On Route List**” screen appears.

- Touch **[↩]**

The message disappears, and the map display reappears. 

Selecting traffic information to display

There are different types of traffic information that can be received via the RDS-TMC service, and you can select which types will be incorporated and displayed on your navigation system.

1 Touch [Traffic Settings] on the “Traffic Menu” screen.

The “**Traffic Settings**” screen appears.

2 Touch [Displayed traffic information].

The “**Traffic Type Settings**” screen appears.



3 Touch the traffic information item to display.

A tick mark appears by the selected traffic information.



- Touching **[All (None)]** selects or deselects all traffic information.

- Touch **[All]**.

Selects all traffic information.

- Touch **[None]**.

Displayed when all traffic information are selected. Cancels all selected traffic information.

4 Touch [OK].

The selected traffic information icon is added to the screen.


5 Touch [OK].

Selecting preferred RDS-TMC service provider manually

A default preferred TMC service provider for each country has been set. The navigation system tunes to the radio station with good reception among the preferred RDS-TMC service providers. If you want to set another preferred RDS-TMC service provider, you can manually select one from available RDS-TMC service providers.

1 Touch [TMC Provider Selection] on the “Traffic Menu” screen.

2 Touch the desired service provider on the list.

After touching a service provider, the system starts tuning to the selected RDS-TMC service provider. When the tuning is successful, the system returns to the map display. 

CAUTION

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

If your mobile phone features Bluetooth® technology, this navigation system can be connected to your mobile 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 mobile phone to the navigation system. This section describes how to set up a Bluetooth connection and how to operate a mobile phone featuring Bluetooth technology on the navigation system.

For more information about the connectivity with the mobile phone featuring Bluetooth wireless technology, refer to the information on our website.

Preparing communication devices

This navigation system has a built-in function to use mobile phones featuring Bluetooth wireless technology.

While your mobile phone featuring Bluetooth wireless technology is connected, the Bluetooth connection status indicator lights.

- ➡ For details, refer to *Notes for hands-free phoning* on page 63.
- ❑ 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 mobile phone. Even when the connection is severed for some reason, the system automatically reconnects the specified mobile phone (except when the connection is severed due to mobile phone operation). ❑

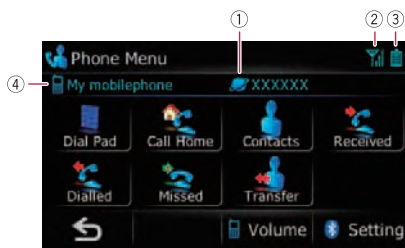
Displaying the Phone Menu

Use the “**Phone Menu**” if you connect the mobile phone to the navigation system for utilisation.

1 Display the “Navigation Menu” screen.

2 Touch [Phone].

The “**Phone Menu**” screen appears.



- ① Network name of the mobile phone company
- ② Reception status of the mobile phone
- ③ Battery status of the mobile phone
- ④ Name of connected mobile phone ❑

Registering your mobile phone

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

- Searching for nearby phones
- Searching for a specified phone
- Pairing from your mobile phone
- ❑ You can register up to 3 mobile phones to this navigation system.
- ❑ The default device name displayed on the mobile phone is “**PIONEER NAVI**”. The PIN code is “**1111**”.

Using hands-free phoning

Searching for nearby phones

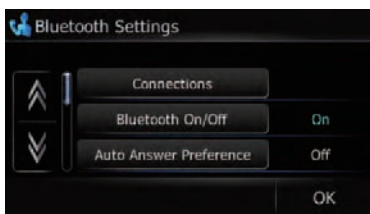
The system searches for available mobile phones near the navigation system, displays them in a list, and registers them for connection.

1 Activate the Bluetooth wireless technology on your mobile phone.

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

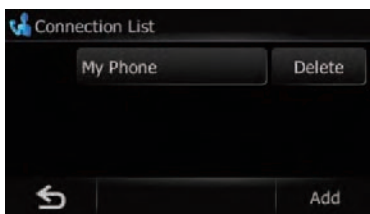
2 Touch [Settings] on the “Phone Menu” screen.

The “**Bluetooth Settings**” screen appears.



3 Touch [Connections].

The “**Connection List**” screen appears.

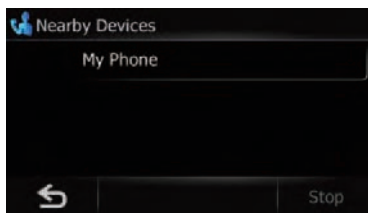


4 Touch [Add], and then [Search devices].

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

- Up to 15 mobile phones will be listed in the order that the mobile phone is found.

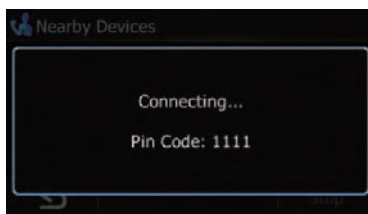
5 Wait until your mobile phone appears in the list.



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

6 Touch the mobile phone name you want to register.

A message prompting you to enter a PIN code appears.



7 Enter the PIN code “1111” using the mobile phone.

When a connection is successfully established, a connection complete message appears, the screen returns to the “**Bluetooth Settings**” screen by touching [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 mobile phone.

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

2 Touch [Settings] on the “Phone Menu” screen.

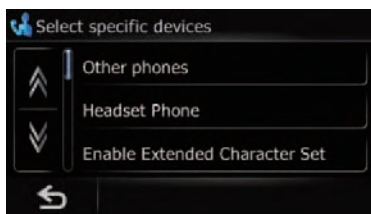
The “Bluetooth Settings” screen appears.

3 Touch [Connections].

The “Connection List” screen appears.

4 Touch [Add], and then [Select specific devices].

The “Select Specific Devices” screen appears.



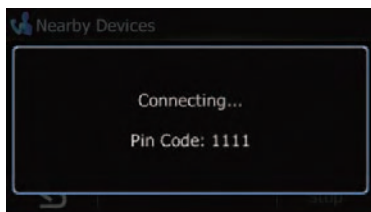
5 Touch the model name of the mobile phone to be connected.

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

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

6 Select the mobile phone you want to register from the list.

A message prompting you to enter a PIN code appears.



7 Enter the PIN code “1111” using the mobile 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 mobile phone

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

1 Activate the Bluetooth wireless technology on your mobile phone.

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

2 Touch [Settings] on the “Phone Menu” screen.

The “Bluetooth Settings” screen appears.

3 Touch [Connections].

The “Connection List” screen appears.

4 Touch [Add], and then [Pair from the mobile phone].

The navigation system waits for a Bluetooth wireless technology connection.

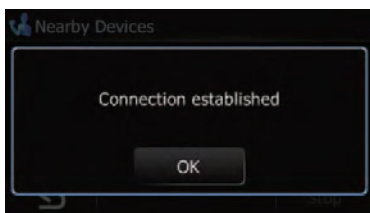


5 Register the navigation system on your mobile phone.

If your mobile 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.

Using hands-free phoning



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

Connecting and disconnecting a registered mobile phone

Connecting a registered mobile phone

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

- Two or more mobile phones are registered, and you want to manually select the mobile phone to be used.
- You want to reconnect a disconnected mobile 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 63.

1 Activate the Bluetooth wireless technology on your mobile phone.

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

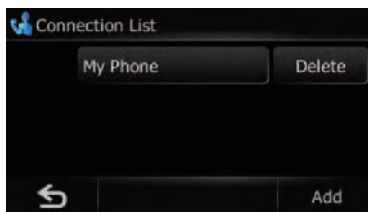
2 Display the “Phone Menu” screen.

3 Touch [Settings].

The “Bluetooth Settings” screen appears.

4 Touch [Connections].

The “Connection List” screen appears.



5 Touch the name of the mobile 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 mobile phone, touch [Cancel].
- ❑ If connection fails, check to see whether your mobile phone is waiting for a connection and then retry.

Disconnecting a mobile phone

1 Display the “Phone Menu” screen.

2 Touch [Settings].

The “Bluetooth Settings” screen appears.

3 Touch [Connections].

The “Connection List” screen appears.

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

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.

Using hands-free phoning

2 Touch [Settings].

The “Bluetooth Settings” screen appears.

3 Touch [Connections].

The “Connection List” screen appears.

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

The registration is cancelled. 

Making a phone call

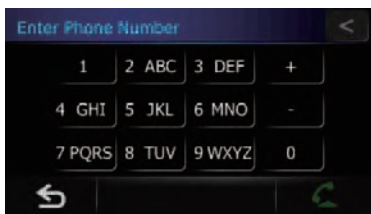
You can make a phone call in many different ways.

Direct dialling

1 Display the “Phone Menu” screen.


2 Touch [Dial Pad].


The direct dial 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 .

Return to the previous screen.

4 Touch to make a call.

- To cancel the call after the system starts dialling, 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.

2 Touch [Call Home].

Dialling home starts.

- If you have not registered your home number, a message appears. Touch [Yes] to start registration.
 - ➔ For more details about “Set Home”, refer to *Registering your home* on page 45.

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 set the phone number from the phone book to “Contacts”.
 - ➔ For details, refer to *Transferring the phone book* on page 60.

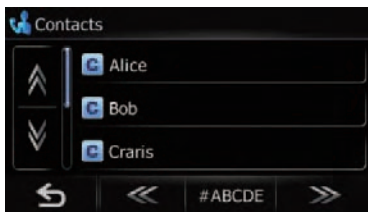
1 Display the “Phone Menu” screen.

2 Touch [Contacts].

The “Contacts” screen appears.

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

If you touch an alphabet tab, you can jump to the first page of the contacts whose names start with that letter.





Using hands-free phoning

Alphabet tabs

Makes the screen jump to the beginning of the page including the entry whose names start with any of selected alphabets.

Touching [#ABCDE] also displays the page including the entry whose names start with primary symbols or numbers.

Touching [Others] displays the page including entries that are not assigned to any of the other tabs.

 or :

Shows the next or previous alphabet tab.

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

5 Touch  to end the call.

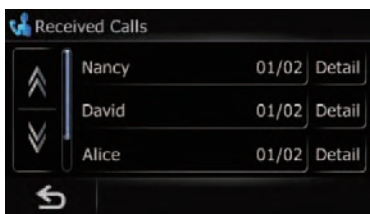
Making a phone call using the received call history

The received call history saves 30 calls per registered mobile phone. If the number of calls exceeds 30, the oldest entry will be deleted.

1 Display the “Phone Menu” screen.


2 Touch [Received].

The “**Received Calls**” screen appears.



3 Touch an entry on the list.

Dialling starts.

To cancel the call after the system starts dialling, 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.

Making a phone call using the dialled number history

The dialled number history saves 30 calls per registered mobile phone. If the entries exceed 30, the oldest one will be deleted.

1 Display the “Phone Menu” screen.


2 Touch [Dialled].

The “**Dialed Calls**” screen appears.



3 Touch an entry on the list.

Dialling starts.

To cancel the call after the system starts dialling, 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.

Making a phone call using missed call history

The missed call history saves 30 calls per registered mobile phone. If the number of calls exceeds 30, the oldest entry will be deleted.

1 Display the “Phone Menu” screen.


2 Touch [Missed].

The “Missed Calls” screen appears.



3 Touch an entry on the list.

Dialling starts.

- To cancel the call after the system starts dialling, 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.


Dialling the entry in the “Favourites”

You can make a call to the entry registered in the “Favourites”.

1 Display the “Navigation Menu” screen.


2 Touch [Favourites].

The “Select Favourite” screen appears.

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

The “Edit Favourite” screen appears.

4 Touch .

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

5 Touch  to end the call.

Using hands-free phoning

Dialling 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.

2 Touch [POI].

The "POI Search" screen appears.

3 Search for the POI.


The "POI List" screen appears.

- ➔ For details concerning operations, 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 dialling, touch .

6 Touch to end the call.

Dialling 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 dialling, 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 once.

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.

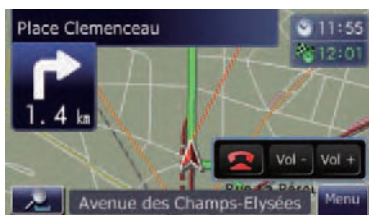
- ➔ For details, refer to *Answering a call automatically* on page 62.


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 more details about "Phone Volume", refer to *Setting the phone volume* on the next page.
- ❑ 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 62.

● 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 *Making a phone call using missed call history* on page 58. .

Transferring the phone book

You can transfer the numbers in a registered user phone's address book into the **Contacts**.

- ❑ Depending on the mobile phone, "Phone Book" may be called a name such as "Contacts", "Business card" or something else.
- ❑ With some mobile 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 mobile phone.
- ❑ The maximum 400 entries can be transferred per mobile phone. If the entries exceed 400, the extra entries will not be transferred. If more than one number is re-

gistered for one person, such as work place and home, each number is counted separately.

- ❑ Each entry can hold up to 3 phone numbers.
- ❑ Depending on the mobile 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 mobile phone contains image data, the phone book may not be correctly transferred.

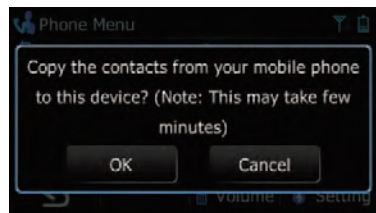
1 Connect the mobile phone that has the phone book to transfer.

- ➔ For details, refer to *Connecting a registered mobile phone* on page 55.

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

The confirmation messages appear.

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



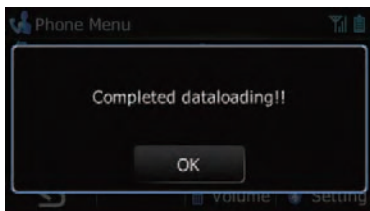
- ❑ You can send the phone book entries repeatedly before touching [OK]. If your mobile phone supports one-by-one transfer only, send all the entries that you want to transfer before touching [OK].
- ❑ If your phone has a capability for automatic transfer of phone book, this screen is skipped and transfer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

Using hands-free phoning

4 Touch [OK].

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

5 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 mobile phone: phone book, dialled/received/missed call history list and preset dials.

1 Touch [Settings] on the “Phone Menu” screen.

The “**Bluetooth Settings**” screen appears.

2 Touch [Clear Memory].

The “**Clear Memory**” screen appears.



On this screen, you can select the following items:

- **Contacts:**
You can clear the registered phone book.
- **Received Calls:**
You can clear the received call history list.
- **Dialed Calls:**
You can clear the dialed call history list.

- **Missed Calls:**

You can clear the missed call history list.

- Touch [Clear All].

It clears all the data that correspond to the connected mobile phone.

3 Touch [OK].

Data on the selected item is cleared from this navigation system’s memory.

- If you do not want to clear memory that you have selected, touch [No].

Setting the phone

Setting the phone volume

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

1 Touch [Volume] on the “Phone Menu” screen.

The “**Phone Volume**” screen appears.

2 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 59.

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 Touch **[Settings]** on the “Phone Menu” screen.

The “**Bluetooth Settings**” screen appears.

2 Touch **[Bluetooth On/Off]**.

Touching **[Bluetooth On/Off]** switching between **[On]** and **[Off]**.

Answering a call automatically

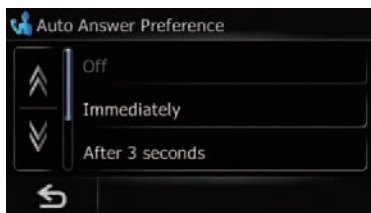
The navigation system automatically answers incoming calls to the mobile phone, so you can answer a call while driving without taking your hands off the steering wheel.

1 Touch **[Settings]** on the “Phone Menu” screen.

The “**Bluetooth Settings**” screen appears.

2 Touch **[Auto Answer Preference]**.

The “**Auto Answer Preference**” screen appears.



3 Touch the desired option.

- **[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 Touch **[Settings]** on the “Phone Menu” screen.

The “**Bluetooth Settings**” screen appears.

2 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 not be stored in the missed call list.

Echo cancelling 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 Touch **[Settings]** on the “Phone Menu” screen.

The “**Bluetooth Settings**” screen appears.

2 Touch **[Echo Cancel]**.

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

Using hands-free phoning

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 mobile phones, it may not be possible to perform automatic connection.

1 Touch [Settings] on the “Phone Menu” screen.

The “**Bluetooth Settings**” screen appears.

2 Touch [Auto Connect].

Touching [Auto Connect] switches between [On] and [Off].

- Automatic connection is performed in the registration number order.
- Some mobile phones do not support automatic connection.

Editing the device name

You can change the device name to be displayed on your mobile phone. (Default is [PIONEER NAVI].)

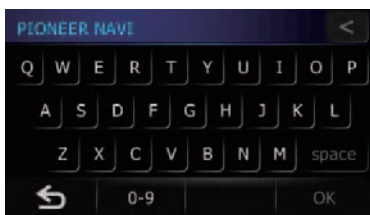
1 Touch [Settings] on the “Phone Menu” screen.

The “**Bluetooth Settings**” screen appears.

2 Touch [Edit Name].

The keyboard to enter the name appears.

3 Touch to delete the current name, and enter the new name by using the keyboard.



4 Touch [OK].

The name is changed.

- Up to 16 characters can be entered for a device name.

Notes for hands-free phoning

General notes



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

Registration and connection

- Mobile phone operations vary depending on the type of mobile phone. Refer to the instruction manual that came with your mobile phone for detailed instructions.
- With mobile phones, phone book transfer may not work even though your phone is paired with 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 mobile phones, even if you press the accept button on the mobile phone when a call comes in, hands-free phoning may not be performed.

- The registered name appears if the phone number of the received call is already registered in the phone book. When one phone number is registered under different names, the name that comes first alphabetically 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 dialled number history

- Calls made or editing performed only on your mobile phone will not be reflected to the dialled 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 mobile phone, the dialled 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 mobile phone, all entries may not be able to be downloaded completely.
- With some mobile 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 mobile phone.
- Depending on the mobile phone, this navigation system may not display the phone book correctly. (Some characters may be garbled, or first name and last name may be in reverse order.)
- If the phone book in the mobile phone contains image data, the phone book may not be transferred correctly. (Image data cannot be transferred from the mobile phone.)
- Depending on the mobile phone, phone book transfer may not be available.

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.

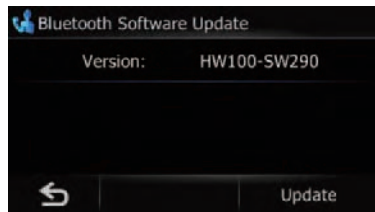
- ➔ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 11.

2 Touch [Settings] on the “Phone Menu” screen.

The “**Bluetooth Settings**” screen appears.

3 Touch [Bluetooth Software Update].

The current version is displayed.



4 Touch [Update].

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

5 To finish the update, touch [OK].

Update is completed.

Modifying the general settings for navigation functions

Setting the volume for navigation system

The sound volume for the navigation can be set.

- When using a phone, the sound volume of the navigation system is dependent on the phone volume setting.

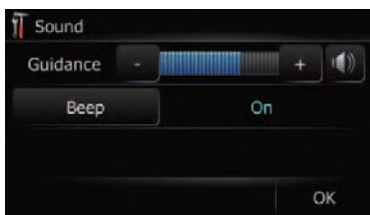
1 Display the “Navigation Menu” screen.

2 Touch [Settings].

The “Settings Menu” screen appears.



3 Touch [Sound].

The “Sound” screen appears.



4 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 that setting.

- [On] (default):
A beep sounds.
- [Off]:
Muting the beep sound. □

Customising the regional settings

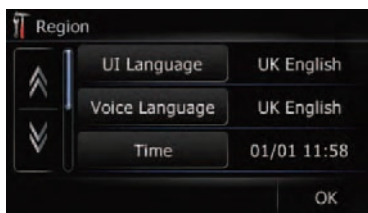
1 Display the “Navigation Menu” screen.

2 Touch [Settings].

The “Settings Menu” screen appears.

3 Touch [Region].

The “Region” screen appears.



Selecting the language

You can set the languages used on the programme and voice guidance. Each language can be set separately.

1 Display the “Region” screen.

2 Touch [UI Language].

The “Select UI Language” screen appears.

3 Touch the desired language.

After the language is selected, the screen returns to the previous screen.

4 Touch [Voice Language].

The “Voice Language Selection” screen appears.

5 Touch the desired language.

After the language is selected, the screen returns to the previous screen.

6 Touch [OK] on the “Region” screen.

The navigation system restarts.

Setting the time difference

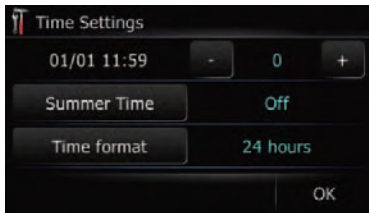
Adjusts the systems clock. Set the time difference (+, -) from the time originally set in your navigation system.

1 Display the “Region” screen.

2 Touch [Time].

The “Time Settings” screen appears.

Modifying the general settings for navigation functions



3 To set the time difference, touch [+] or [-].

The time difference between the time originally set in the navigation system (Central European Time) and the current location of your vehicle is shown. If necessary, adjust the time difference. Touching [+] or [-] changes the time difference display in one-hour increments.

The time difference can be set from **-4** to **+9** hours.

4 Touch [Summer Time].

If necessary, set to summer time.

Summer time is off by default. Touch **[Summer Time]** to change the time if you are in the summer time period. This turns the display below summer time **[On]**.

5 Touch [Time Format].

Each time you touch the key changes that setting.

- **[24 hours]** (default):
Switching the display for 24 hours.
- **[12 hour]**:
Switching the display for 12 hours with am/pm.

Changing the unit between km and miles

This setting controls the unit of distance and speed displayed on your navigation system.

1 Display the "Region" screen.

2 Touch [km / mile].

Each time you touch the key changes that setting.

- **[km]** (default):
Show distance in kilometres.
- **[mile]**:
Show distance in miles.
- **[Mile&Yard]**:
Show distance in miles and yards.

Changing the virtual speed of the vehicle

When calculating the expected time of arrival and the number of hours to the destination, set the average speed for the motorway or ordinary roads using [+] and [-].

1 Display the "Region" screen.

2 Touch [Speed].

The **"Average Speed Settings"** screen appears.



3 Touch [+] or [-] to set the speed.

- The estimated time of arrival is not necessarily estimated based on this speed value.

4 Touch [OK].

The settings are completed.

Setting the keyboard layout

You can select the type of keyboard to be used for inputting characters.

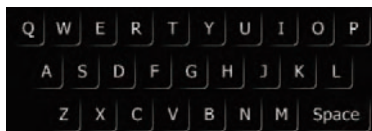
1 Display the "Region" screen.

2 Touch [Keyboard].

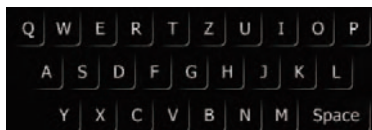
Each time you touch the key changes that setting.

- **[QWERTY]** (default):

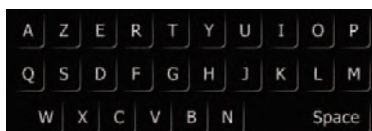
Modifying the general settings for navigation functions



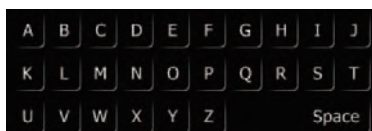
- [QWERTZ]:



- [AZERTY]:



- [ABC]:



- [Greek]:



Replicating the settings

You can import settings you have made on the utility programme "NavGate FEEDS" which is available separately to the navigation system.

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

- ➔ For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 11.

2 Display the "Navigation Menu" screen.

3 Touch [Cpy Setting].

A message confirming whether to update the settings appears.

4 Touch [Yes].

Update starts.

After updating the settings is finished, a message confirming whether to restart the navigation system appears.

5 Touch [OK].

The navigation system restarts.

Setting "Safe Mode"

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

1 Display the "Navigation Menu" screen.

2 Touch [Settings].

The "Settings Menu" screen appears.

3 Touch [Safe Mode].

Each time you touch the key changes that setting.

- [On] (default):
Activates the "Safe Mode" function.
- [Off]:
Deactivates the "Safe Mode" 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.

1 Display the "Navigation Menu" screen.

2 Touch [Fuel details].

The "Fuel details" screen appears.

Modifying the general settings for navigation functions

3 Enter the fuel consumption information.

Enter the following items:

- **[Surface Road]:**
Enter the fuel cost when you drive on ordinary roads.
 - How the fuel cost is entered depends on the **[Fuel Unit]** setting.
 - When **[Fuel Unit]** is set to **[Litre]**.
Enter how much fuel you need to travel 100 kilometres (60 miles).
 - When **[Fuel Unit]** is set to **[Gallon]**.
Enter how many kilometres (miles) you get to a gallon.
- **[MW Fuel Mile]:**
Enter the fuel cost when you drive on the motorway.
 - How the fuel cost is entered depends on the **[Fuel Unit]** setting.
 - When **[Fuel Unit]** is set to **[Litre]**.
Enter how much fuel you need to travel 100 kilometres (60 miles).
 - When **[Fuel Unit]** is set to **[Gallon]**.
Enter how many kilometres (miles) you get to a gallon.
- **[Fuel Price/Unit]:**
Enter the fuel unit price.
- **[Fuel Unit]:**
Set the fuel unit.
- **[Currency]:**
Set the unit of currency.

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

Setting the power-saving function

You can select the setting of the screen backlight to save the battery power.

1 Display the “Navigation Menu” screen.

2 Touch [Settings].

The “Settings Menu” screen appears.

3 Touch [Backlight Timeout].

Each time you touch the key changes that setting.

- **[Never]:**
Deactivates the power-saving feature of the screen backlight.
- **[30 sec]:**
Dims the backlight automatically if you do nothing for 30 seconds.

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 “Navigation Menu” screen.

2 Touch [Settings].

The “Settings Menu” screen appears.

3 Touch [Calibrate].

A message confirming whether to start the calibration appears.

4 Touch and hold the target that point to the centre and corners of the LCD screen.

The target indicates the order.

Modifying the general settings for navigation functions

5 Touch anywhere on the screen.

The adjusted position data will be saved.

- Do not turn off the engine while saving the adjusted position data.

Correcting the current location

Touch the screen to adjust the current position and direction of the vehicle displayed on the map.

- 1 Display the "Navigation Menu" screen.
- 2 Touch [Settings].
The "Settings Menu" screen appears.
- 3 Touch [Location].
- 4 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 "Navigation Menu" screen.
- 2 Touch [Settings].
The "Settings Menu" screen appears.
- 3 Touch [Connection].
The "Connection" screen appears.



- ① Status

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

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

- ② **Hand Brake**
When the handbrake is applied, [On] is displayed. When the handbrake 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.)

Checking the version information

- 1 Display the "Navigation Menu" screen.
- 2 Touch [Settings].
The "Settings Menu" screen appears.
- 3 Touch [Service Info].
The "Service Information Screen" screen appears.
- 4 Check the version information.

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.

Modifying the general settings for navigation functions

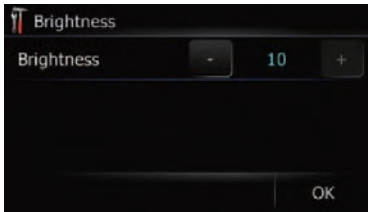
1 Display the “Navigation Menu” screen.

2 Touch [Settings].

The “Settings Menu” screen appears.

3 Touch [Brightness].

The “Brightness” screen appears.



4 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.

5 Touch [OK].

The adjustment is completed.

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 “Navigation Menu” screen.

2 Touch [Settings].

The “Settings Menu” screen appears.

3 Touch [Screen Off].

The screen is turned off.

- Touch anywhere on the screen to turn it back on.

Restoring the default setting

Resets various settings registered to the navigation system and restores them to the default or factory settings.

➔ For more detailed information about the items which would be erased, refer to *Setting items to be deleted* on page 111.

1 Display the “Navigation Menu” screen.

2 Touch [Settings].

The “Settings Menu” screen appears.

3 Touch [F. Reset].

The message confirming whether to restore the settings appears.

4 Touch [Yes].

Returning the navigation system to the initial state

You can return settings or recorded content to the default or factory settings.

➔ For more detailed information about the items which would be erased, refer to *Setting items to be deleted* on page 111.

1 Press the RESET button.

The navigation system restarts, and the splash screen appears.

2 Wait about 10 seconds, and then press and hold the MODE button until the “Date/Setting Clear” screen appears.

The “Date/Setting Clear” screen appears.

3 Touch [Clear user information].

Touching [Clear user information] displays the confirmation message for clearing the memory.

- Touch [Reset].

Various settings registered to the navigation system is reset to the default or factory settings.

4 Touch [Yes].

The recorded contents are cleared.

Exporting data for “NavGate FEEDS”

You can export data to an SD memory card for browsing on a PC.

The following data can be exported.

- Fuel details
- Drive Log

Fuel details

Entering the fuelling information

- Up to 24 sets of “Fuel details” entries 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.

Fuel details function only assists you to calculate your average mileage based on the information you input. The function does not receive data directly from the vehicle.

1 Display the “Navigation Menu” screen.

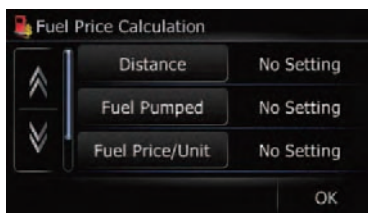
2 Touch [Fuel details].

The “Fuel details” screen appears.



3 Touch [Fuel Price].

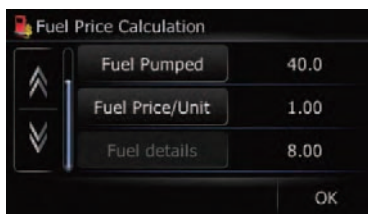
The “Fuel Price Calculation” screen appears.



4 Enter the following settings:

- **[Distance]:**
Enter the distance travelled since the previous fuelling.
 - The distance is entered automatically only when the distance travelled since the previous fuelling is recorded.
- **[Fuel Pumped]:**
Enter the amount of fuel pumped.
- **[Fuel Price/Unit]:**
Enter the fuel unit price.

When all the items are entered, the fuel consumption is displayed next to “Fuel details”.



5 Touch [OK].

The “Fuel Price Calculation” screen appears. And then touch [OK] to display the “Fuel details” screen.

Exporting the data of “Fuel details”

Exporting the “Fuel details” 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.

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

- For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 11.

2 Display the “Navigation Menu” screen.

3 Touch [Fuel details].

The “Fuel details” 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 “Fuel details” screen appears when it is done.

- Touching [Export] next to “Fuel details” on the “Export/Import Menu” screen enables you to perform the equivalent operation.
- For details, refer to *Exporting the data of “Fuel details” from “Export/Import Menu” screen* on the next page.

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.

- For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 11.

2 Touch [Settings].

The “Settings Menu” screen appears.

3 Touch [Drive Log].

The “Drive Log” screen appears.

4 Touch [Drive Log].

Each time you touch the key changes that setting.

- [On]:
You can export your track log to the SD card.
- [Off] (default):
You cannot export your track log to the SD card.
- Touch [Type].

Each time you touch the key changes that setting.

- [Private] (default):
Set the track log attribute to “Private”.
- [Business]:
Set the track log attribute to “Business”.
- [Other]:
Set 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.

Exporting and importing the entry in “Favourites”

Exporting the entry in “Favourites”

Exporting the “Favourites” data to an SD memory card for editing is possible by using the utility programme “NavGate FEEDS” which is available separately, on your PC.

Other functions

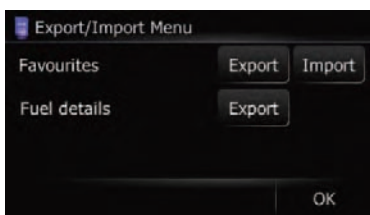
1 Insert an SD memory card into the SD card slot.

- For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 11.

2 Display the “Navigation Menu” screen.

3 Touch [Data In/Out].

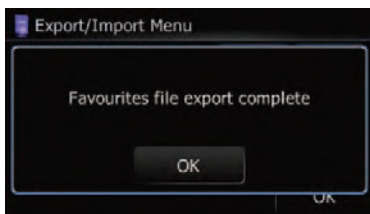
The “Export/Import Menu” screen appears.



4 Touch [Export] next to “Favourites”.

Exporting the data starts.

After exporting the data is finished, the following message appears.



5 Touch [OK].

The “Navigation Menu” screen appears.

Importing “Favourites” edited on “NavGate FEEDS”

You can import the locations that you have edited on the utility programme “NavGate FEEDS” which is available separately to “Favourites”.

- ☐ When a location that is already registered in “Favourites” is imported, the location is overwritten.

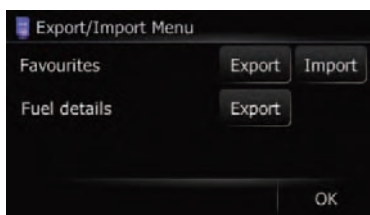
1 Insert an SD memory card into the SD card slot.

- For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 11.

2 Display the “Navigation Menu” screen.

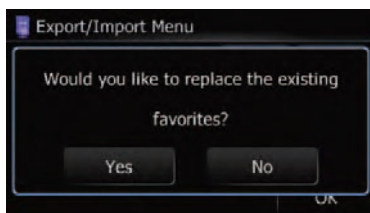
3 Touch [Data In/Out].

The “Export/Import Menu” screen appears.



4 Touch [Import] next to “Favourites”.

The following message appears.



5 Touch [Yes].

Data import starts.

After importing the data is finished, the “Navigation Menu” screen appears. □

Exporting the data of “Fuel details” from “Export/Import Menu” screen

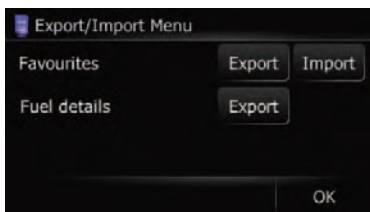
1 Insert an SD memory card into the SD card slot.

- For more details of the operation, refer to *Inserting and ejecting an SD memory card* on page 11.

2 Display the “Navigation Menu” screen.

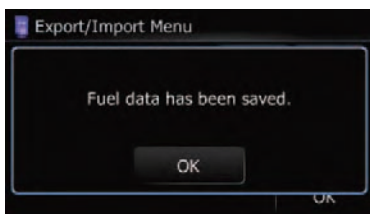
3 Touch [Data In/Out].

The “**Export/Import Menu**” screen appears.

**4 Touch [Export] next to “Fuel details”.**

Exporting the data starts.

After exporting the data is finished, the following message appears.

**5 Touch [OK].**

The “**Navigation Menu**” screen appears.

4 Touch [OK].

The navigation system restarts.

And then the navigation system changes to “**PC Mode**”.

Cancelling “PC Mode”

1 Disconnect the detachable device from your PC.

2 Touch [End].

“**PC Mode**” is cancelled, and then the system restarts.

“PC Mode” function

When you connect a detachable device containing an SD memory card to your PC, “**PC Mode**” enables your PC to identify the detachable device as a removable disc.

Switching to “PC Mode”

1 Connect the detachable device and your PC using the USB cable.

⇒ For details, refer to *Connecting with your PC* on page 18.

2 Display the “Navigation Menu” screen.


3 Touch [Connect PC].

A message confirming whether to restart the navigation system appears.

Basic flow of operation

Using the audio source

You can play or use the following sources with the navigation system.


- TUNER (FM, MW/LW)
- CD
- ROM (MP3, AAC, WAV, WMA)
- USB
- iPod
- AUX (auxiliary device) 

Switching the audio operation screen

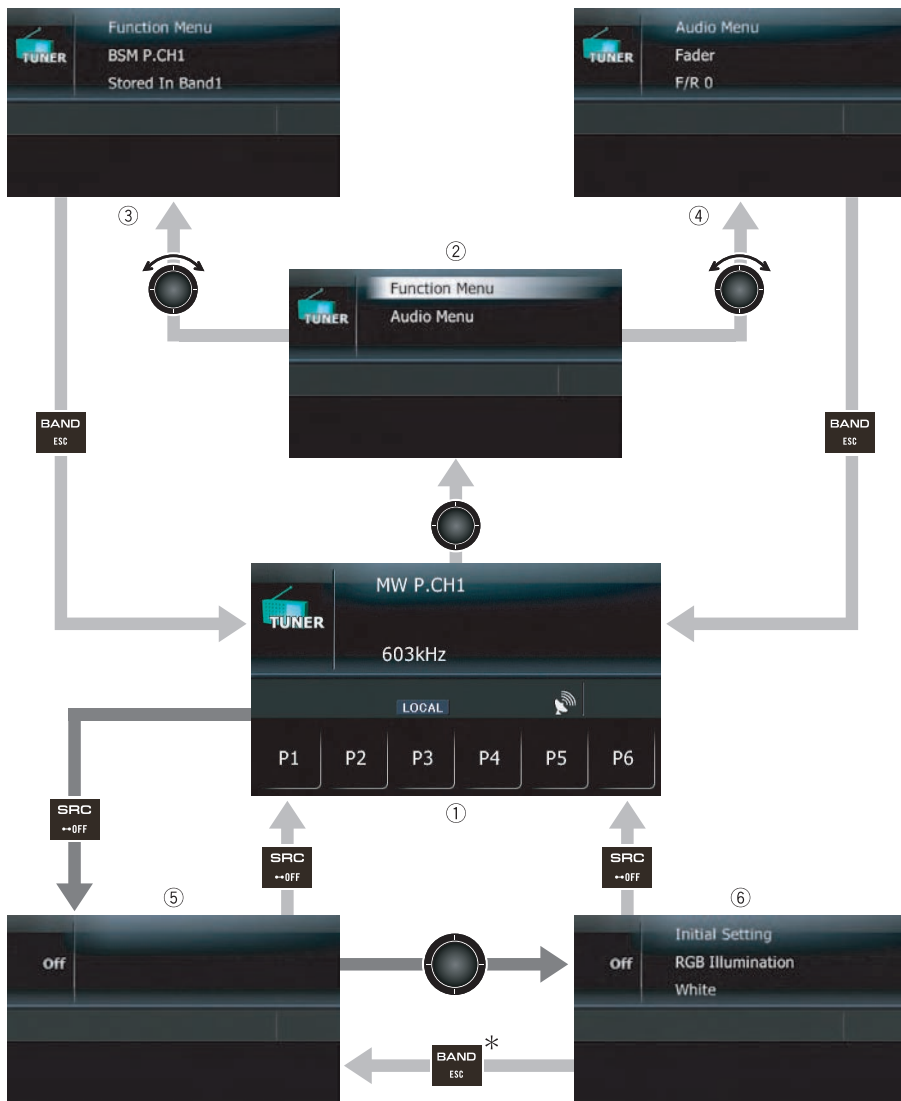
1 Press MODE button when the map of the current location is displayed.

2 Press SRC/OFF button repeatedly to switch between the following sources.

TUNER (tuner) — **CD** (built-in CD player) —

USB (USB storage device)/**iPod** (iPod connected using USB input) — **AUX** (auxiliary device) 

Screen switching overview



- : Press
- : Press and hold for a few seconds
- ⊙ : Press the centre of **MULTI-CONTROL**

- ⊙ : Turn and press the centre of **MULTI-CONTROL**
- * Pressing **LIST** or **EJECT** button enables you to perform the equivalent operation. □

Basic flow of operation

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 access the screen for selecting either "Function Menu" or "Audio Menu".
Depending on the source, "Function Menu" may not exist.
- ③ **"Function Menu" screen**
You can access the screen to customise additional function settings.
- ④ **"Audio Menu" screen**
You can access the screen where various settings are available with the audio source according to your sound requests.
- ⑤ **Source off screen**
- ⑥ **"Initial Setting" screen**
You can access the screen that lets you perform system set up of different settings for this navigation system. ■

Using the radio (FM)

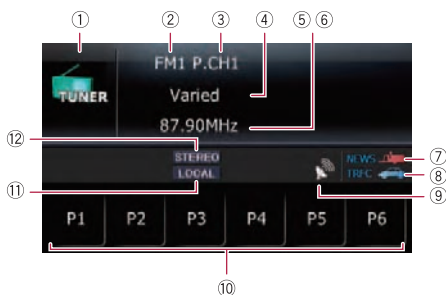
You can listen to the radio by using the navigation system. This section describes operations for radio (FM).

The functions related to RDS (Radio Data System) are available only in areas with FM stations broadcasting RDS signals. Even if the navigation system is receiving an RDS station, not all the functions related with RDS will be available.

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

- ➔ For details, refer to *Switching the audio operation screen* on page 75.

Reading the screen



- ① **Source icon**
Shows which source has been selected.
- ② **Band**
Shows which band the radio is tuned to: FM1 to FM3.
- ③ **Preset number indicated next to "P.CH"**
Shows what preset item has been selected.
- ④ **PTY**
Shows the programme type of the current station (when available).
- ⑤ **Frequency**
- ⑥ **Programme service name**
Shows the programme service name (station name) of the current station. If the programme service name (station name) cannot

be received, the frequency will be displayed instead.

- ⑦ **NEWS indicator**
Shows when the set news programme is received.
- ⑧ **TRFC indicator**
Shows when a TP station (a station that broadcasts traffic information) is tuned in.
- ⑨ **Signal level indicator**
- ⑩ **Touch panel keys**
P1 to P6:
Recalls radio stations.
➔ For details, refer to *Storing and recalling broadcast frequencies* on the next page.
- ⑪ **Local indicator**
Shows when local seek tuning is on.
➔ For details, refer to *Tuning in strong signals* on the next page.
- ⑫ **STEREO indicator**
Shows when the selected frequency is being broadcast in stereo.

Operating by hardware buttons

Pressing BAND/ESC button

Band can be selected from among **FM1**, **FM2**, **FM3**, or **MW/LW**.

Pressing MULTI-CONTROL up or down

You can recall radio stations assigned to pre-set 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 centre of MULTI-CONTROL

The function select screen appears.

Using the radio (FM)

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 stations, 6 for each of three FM bands can be stored in memory.

2 Touch the same preset tuning key P1 to P6.

The radio station frequencies are recalled from memory. ❑

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, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to display “BSM”.

3 Press the centre of MULTI-CONTROL to start “BSM”.

BSM begins to flash. While BSM 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, BSM stops flashing.

- ❑ To cancel the storage process, press the centre 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, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to display “Local”.

3 Pressing the centre 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.

FM: Level1 — Level2 — Level3 — Level4

- ❑ The level “4” setting allows reception of only the strongest stations, while lower settings let you receive weaker stations. ❑

Tuning into alternative frequencies

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

1 Display the “Function Menu” screen.

- ➔ For details, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to display “Alternative FREQ”.

3 Pressing the centre of MULTI-CONTROL switches between “On” and “Off”.

- Only RDS stations are tuned in during seek tuning or BSM when AF (alternative frequencies) is on.
- When you recall a preset station, the tuner may update the preset station with a new frequency from the station's AF list. (This is only available when using presets on **FM1** or **FM2** bands.) No preset number appears on the display if the RDS data for the station received differs from that for the originally stored station.
- Sound may be temporarily interrupted by another programme during an AF frequency search.
- AF can be turned on or off independently for each FM band.

PI Seek operation

If the unit fails to find a suitable alternative frequency, or if you are listening to a broadcast and the reception becomes weak, the navigation system will automatically search for a different station with the same programming. During the search, **PI Seek** is displayed and the output is muted. Muting is discontinued after completion of the PI Seek, whether or not a different station is found.

Activating the Auto PI seek for preset stations

When preset stations cannot be recalled, as when travelling long distances, the unit can be set to perform PI Seek during preset recall.

- The default setting for Auto PI Seek is off.
- For details, refer to *Using Auto PI Seek for preset stations* on page 103.

Limiting stations to regional programming

When AF is used to automatically retune frequencies, the regional function limits the se-

lection to stations broadcasting regional programmes.

1 Display the “Function Menu” screen.

- For details, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to display “Regional”.

3 Pressing the centre of MULTI-CONTROL switches between “On” and “Off”.

- Regional programming and regional networks are organised differently depending on the country (i.e., they may change according to the time, country or broadcast area).
- The preset number may disappear on the display if the tuner tunes in a regional station that differs from the originally set station.
- The regional function can be turned on or off independently for each FM band.

Receiving traffic announcements

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

1 Tune in a TP station or another enhanced network's TP station.

When you are tuned into a TP station or another enhanced network's TP station,

 indicator will light.

2 Display the “Function Menu” screen.

- For details, refer to *Screen switching overview* on page 76.

Using the radio (FM)

3 Turn MULTI-CONTROL to display “Traffic Announce”.

4 Pressing the centre of MULTI-CONTROL switches between “On” and “Off”.

- You can also cancel the announcement by changing the source or moving **MULTI-CONTROL** to the left or right.

5 Press BAND/ESC while a traffic announcement is being received to cancel the announcement.

The tuner returns to the original source but remains in standby mode until turning the traffic announcement standby off.

- Pressing **SRC/OFF** button enables you to perform the equivalent operation.
- The system switches back to the original source following traffic announcement reception.
- Only TP stations and other enhanced networks' TP stations are tuned in during seek tuning or BSM when **TA** is on.

Using news programme interruption

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

1 Display the “Function Menu” screen.

- ➔ For details, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to display “News Interrupt”.

3 Pressing the centre of MULTI-CONTROL switches between “On” and “Off”.

- A news programme can be cancelled by pressing **BAND/ESC** or **SRC/OFF** button.

Searching for an RDS station by PTY information

You can search for general types of broadcasting programmes.

- ➔ For details, refer to *PTY list* on page 83.

1 Display the “Function Menu” screen.

- ➔ For details, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to display “PTY Search”.

3 Press MULTI-CONTROL left or right to select a programme type.

There are four programme types:

News&Information — Popular — Classics — Others

4 Press the centre of MULTI-CONTROL to start “PTY Search”.

The tuner searches for a station broadcasting that programme type.

- To stop the search, press the centre of **MULTI-CONTROL**.
- The programmes of some stations may differ from that indicated by the transmitted PTY.
- If no station is broadcasting the type of programme you searched for, **Not Found** is displayed for about two seconds and then the tuner returns to the original station.

Receiving PTY alarm broadcasts

PTY alarm is a special PTY code for announcements regarding emergencies such as natural disasters. When the tuner receives the radio alarm code, **Alarm** appears on the display and the volume adjusts to the TA volume. When the station stops broadcasting the emergency announcement, the system returns to the previous source.

- ❑ You can also cancel an emergency announcement by changing the source or moving **MULTI-CONTROL** to the left or right. ❑

Using the radio (FM)

PTY list

General	Specific	Type of programme
News&Information	News	News
	Affairs	Current affairs
	Info	General information and advice
	Sport	Sports
	Weather	Weather reports/meteorological information
	Finance	Stock market reports, commerce, trading, etc.
Popular	Pop Mus	Popular music
	Rock Mus	Contemporary modern music
	Easy Mus	Easy listening music
	Oth Mus	Non categorised music
	Jazz	Jazz
	Country	Country music
	Nat Mus	National music
	Oldies	Oldies music, golden oldies
Classics	Folk Mus	Folk music
	L. Class	Light classical music
	Classics	Serious classical music
Others	Educate	Educational programmes
	Drama	All radio plays and serials
	Culture	National or regional culture
	Science	Nature, science and technology
	Varied	Light entertainment
	Children	Children's
	Social	Social affairs
	Religion	Religion affairs or services
	Phone In	Phone In
	Touring	Travel programmes, not for announcements about traffic problems
	Leisure	Hobbies and recreational activities
	Document	Documentaries



Using the radio (MW/LW)

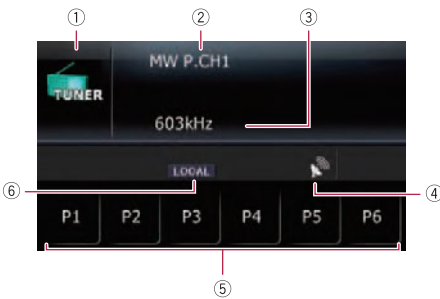
You can listen to the radio using this navigation system. This section describes operations for radio (MW/LW).

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

- ➔ For details, refer to *Switching the audio operation screen* on page 75.

2 Press BAND/ESC button repeatedly until "MW/LW" in the display.

Reading the screen



① Source icon

Shows which source has been selected.

② Preset number indicated next to "P.CH"

Shows what preset item has been selected.

③ Frequency

④ Signal level indicator

⑤ Touch panel keys

P1 to **P6**:

Recalls radio stations.

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

⑥ Local indicator

Shows when local seek tuning is on.

- ➔ For details, refer to *Tuning in strong signals* on the next page.

Operating by hardware buttons

Pressing BAND/ESC button

Band can be selected from among **FM1**, **FM2**, **FM3**, or **MW/LW**.

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 centre 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 6 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 radio (MW/LW)

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, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to display “BSM”.

3 Press the centre of MULTI-CONTROL to start “BSM”.

BSM begins to flash. While **BSM** 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, **BSM** stops flashing.

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

MW/LW: Level1—Level2

- The level “2” setting allows reception of only the strongest stations, while lower settings let you receive weaker stations.

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, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to display “Local”.

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

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

There are two levels of sensitivity for MW/LW.

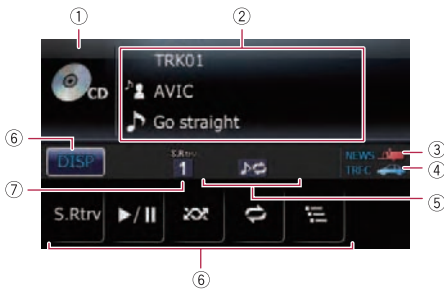
You can play a normal music CD using the built-in drive of the navigation system. This section describes how.

● **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 set, press **SRC/OFF** button to display the "CD" screen.
- ➔ For details, refer to *Switching the audio operation screen* on page 75.

Reading the screen



① **Source icon**

Shows which source has been selected.

② **Text display area**

- **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**

Shows the artist name of the disc currently playing (when available).

- **Artist name**

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 **NEWS indicator**

Shows when the set news programme is received.

④ **TRFC indicator**

Shows when a TP station (a station that broadcasts traffic information) is tuned in.

⑤ **Repeat/Random/Scan indicator**

Shows the current playback status.

⑥ **Touch panel keys**

- **DISP:**
Changes the display in the text area.
- **S.Rtrv:**
Sets advanced sound retriever function.
➔ For details, refer to *Using advanced sound retriever* on page 88.
- **Play/Pause:**
Playback and Pause
- **Random:**
Plays tracks in random order.
➔ For details, refer to *Play tracks in random order* on the next page.
- **Repeat:**
Repeats playback.
➔ For details, refer to *Setting a repeat play range* on the next page.
- **Scan:**
Scans tracks of a CD.
➔ For details, refer to *Scan tracks of a CD* on the next page.
- ⑦ **Advanced sound retriever indicator**
➔ For details, refer to *Using advanced sound retriever* on page 88. □

Operating by hardware buttons

Pressing BAND/ESC button

➔ For details, refer to *Pressing BAND/ESC button* on page 90.

Pressing MULTI-CONTROL right

Skips to the start of the next track.

Playing audio CDs

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 is cancelled when it reaches the beginning of the first track on the disc.

Pressing the centre of MULTI-CONTROL

The function select screen appears.

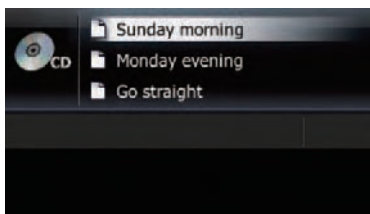
Pressing LIST button

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

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 LIST button.

The list of track titles appears.

- To return to the previous screen, press **BAND/ESC** or **LIST** button.



2 Use MULTI-CONTROL to select the desired track title.

- Pressing **MULTI-CONTROL** up or down
Selects the desired track title.

- Turning **MULTI-CONTROL** enables you to perform the equivalent operation.
- Pressing the centre of **MULTI-CONTROL**
Plays the selected track.
- Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.

Setting a repeat play range

• Touch repeatedly until the desired repeat range appears in the display.





- :
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.

Play tracks in random order

Tracks 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 disc repeat automatically and tracks will be played in random order.







Scan 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 cancelled.
- ❑ If you touch  during scan play, the scan play is automatically cancelled and play-back of the current track will be repeated.
- ❑ If you touch  during scan play, the scan play is automatically cancelled 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 advanced sound retriever

Advanced 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:

- : Sets to **S.Rtrv1**.
- : Sets to **S.Rtrv2**.
- No indicator: Sets to off.
- ❑ **S.Rtrv2** is more effective than **S.Rtrv1**. 

Playing music files on ROM

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 set, press **SRC/OFF** button to display the “**CD**” screen.
- ➡ For details, refer to *Switching the audio operation screen* on page 75.
- When playing a disc containing a mixture of various media file types, you can switch between media file types to play. Press **BAND/ESC** button to switch between CD (audio data (CD-DA)) and ROM (compressed audio file).
- ➡ For details, refer to *Pressing 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.

- **Artist name**

Shows the artist name for the current song.

- **Album title**

Shows the title of the album for the current song.

- ③ **NEWS indicator**

Shows when the set news programme is received.

- ④ **TRFC indicator**

Shows when a TP station (a station that broadcasts traffic information) is tuned in.

- ⑤ **File type indicator**




Shows the type of audio file currently playing.

- ⑥ **Repeat/Random/Scan indicator**

Shows the current playback status.

- ⑦ **Touch panel keys**

- **DISP:**
Changes the display in the text area.
- **S.Rtrv:**
Sets advanced sound retriever function.
➡ For details, refer to *Using advanced sound retriever* on page 92.
- **Play/Pause:**
Playback and Pause
- **Repeat:**
Plays tracks in random order.
➡ For details, refer to *Play tracks in random order* on page 91.

- : Repeats playback.
 - ➔ For details, refer to *Setting a repeat play range* on the next page.
 - : Scans folders and tracks.
 - ➔ For details, refer to *Scan folders and tracks* on the next page.
- ⑧ **Advanced sound retriever indicator**
- ➔ For details, refer to *Using advanced sound retriever* on page 92. 

Operating by hardware buttons

Pressing 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 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 is cancelled when it reaches the beginning of the first track on the disc.

Pressing the centre of MULTI-CONTROL

The function select screen appears.

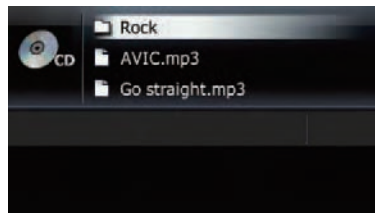
Pressing LIST button

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 LIST button.

The list of track titles and folder names appears.

- To return to the previous screen, press **BAND/ESC** or **LIST** button.
- If the selected folder does not contain any playable track, the track list is not displayed.

2 Use MULTI-CONTROL to select the desired track title.

- Pressing **MULTI-CONTROL** up or down Selects the desired track title.
 - Turning **MULTI-CONTROL** enables you to perform the equivalent operation.
- Pressing the centre of **MULTI-CONTROL** When a folder is selected, it displays the content of the lower folder.

Playing music files on ROM

When a track is selected, it plays the selected track.

- Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.
- Pressing and holding the centre of **MULTI-CONTROL**

When a folder is selected, it plays the first track in the selected folder.
- Pressing **MULTI-CONTROL** left








When the lower folder is listed, it returns to the upper folder.

 - If the root folder is listed, this operation is not available.
- Pressing and holding **MULTI-CONTROL** left

Displays the content of the root folder.

 - If the root folder is listed, this operation is not available.

Setting a repeat play range






- **Touch  repeatedly until the desired repeat range appears in the display.**
 - : Repeats just the current track.
 - : Repeats the folder currently playing.
 - No indicator (disc repeat): Repeats the current disc.
- 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.

Play tracks in random order

Tracks 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 tracks will be played in random order.

Scan 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 cancelled.
 - If you touch  during scan play, the scan play is automatically cancelled and playback of the current track will be repeated.
 - If you touch  during scan play, the scan play is automatically cancelled 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 advanced sound retriever

Advanced 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:

- **1**:
Sets to **S.Rtrv1**.
 - **2**:
Sets to **S.Rtrv2**.
 - No indicator:
Sets to off.
- S.Rtrv2** is more effective than **S.Rtrv1**.

Playing music files on USB

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.
 - **Artist name**
Shows the artist name currently playing (when available).
 - **Album title**
Shows the title of the album for the current track (when available).
- ③ **NEWS indicator**

Shows when the set news programme is received.

- ④ **TRFC indicator**
Shows when a TP station (a station that broadcasts traffic information) is tuned in.
- ⑤ **File type indicator**
Shows the type of audio file currently playing.
- ⑥ **Repeat/Random/Scan indicator**
Shows the current playback status.
- ⑦ **Touch panel keys**
 - **DISP:**
Changes the display in the text area.
 - **S.Rtrv:**
Sets advanced sound retriever function.
➔ For details, refer to *Using advanced sound retriever* on page 95.
 - **Play and Pause:**
Playback and Pause
 - **Stop:**
Plays files in random order.
➔ For details, refer to *Playing files in random order* on page 95.
 - **Repeat:**
Repeats playback.
➔ For details, refer to *Setting a repeat play range* on the next page.
 - **Shuffle:**
Scans folders and files.
➔ For details, refer to *Scan folders and files* on page 95.
- ⑧ **Advanced sound retriever indicator**
➔ For details, refer to *Using advanced sound retriever* on page 95.

Operating by hardware buttons

Pressing and holding 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 previous file.

Pressing and holding MULTI-CONTROL left

Performs fast reverse.

- There is no sound on fast reverse or forward.

Pressing the centre of MULTI-CONTROL

The function select screen appears.

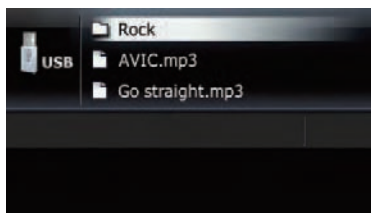
Pressing LIST button

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 list of file names or folder names on a USB. 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 LIST button.**

The list of file and folder names appears.




- To return to the previous screen, press **BAND/ESC** or **LIST** button.

- If the selected folder does not contain any file that can be played, the file list is not displayed.




2 Use MULTI-CONTROL to select the desired file name.

- Pressing **MULTI-CONTROL** up or down
Selects the desired file name.
 - Turning **MULTI-CONTROL** enables you to perform the equivalent operation.
- Pressing the centre of **MULTI-CONTROL**
When a folder is selected, it displays the content of the lower folder.
When a file is selected, it plays the selected file.
 - Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.
- Pressing and holding the centre of **MULTI-CONTROL**
When a folder is selected, it plays the first file in the selected folder.
- Pressing **MULTI-CONTROL** left
When the lower folder is listed, it returns to the upper folder.
 - If the root folder is listed, this operation is not available.
- Pressing and holding **MULTI-CONTROL** left
When the lower folder is listed, it returns to the root folder.
 - If the root folder is listed, this operation is not available.

Setting a repeat play range

- Touch  repeatedly until the desired repeat range appears in the display.
 - :
Repeats just the current file.
 - :
Repeats the folder currently playing.
 - No indicator (all repeat):
Repeats all.

Playing music files on USB







- ❑ 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. 



Scan 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 cancelled.
- ❑ If you touch  during scan play, the scan play is automatically cancelled and playback of the current file will be repeated.

- ❑ If you touch  during scan play, the scan play is automatically cancelled 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 advanced sound retriever

Advanced 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:

- : Sets to **S.Rtrv1**.
- : Sets to **S.Rtrv2**.
- No indicator: Sets to off.
- ❑ **S.Rtrv2** is more effective than **S.Rtrv1**. 

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.
- ❑ iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

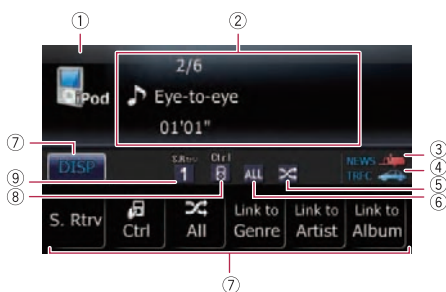
1 Connect your iPod.

- ➔ For details, refer to *Connecting your iPod* on page 13.

2 Press SRC/OFF button to display the "iPod" screen.

- ➔ For details, refer to *Switching the audio operation screen* 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 for the current song.

When a podcast is played, the podcast title is displayed.

3 NEWS indicator

Shows when the set news programme is received.

4 TRFC indicator

Shows when a TP station (a station that broadcasts traffic information) is tuned in.

5 Shuffle play indicator

Appears when shuffle play is activated.

6 Repeat play indicator

Appears when repeat play is activated.

7 Touch panel keys

- **DISP:**
Changes the display in the text area.
- **S. Rtrv:**
Sets advanced sound retriever function.
➔ For details, refer to *Using advanced sound retriever* on page 98.
- **Ctrl:**
Sets iPod control mode.
➔ For details, refer to *Operating this navigation system's iPod function from your iPod* on page 98.
- **All:**
Sets shuffle all.
➔ For details, refer to *Playing all songs in random order (shuffle all)* on page 99.
- **Link to Genre:**
Link to Artist:
Link to Album:
Narrows down a song with the list of songs related to the currently playing song.
➔ For details, refer to *Playing songs related to the currently playing song* on page 99.
- 8 **iPod control mode indicator**
➔ For details, refer to *Operating this navigation system's iPod function from your iPod* on page 98.

Using an iPod

- ⑨ **Advanced sound retriever indicator**
 ➔ For details, refer to *Using advanced sound retriever* 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 centre of MULTI-CONTROL

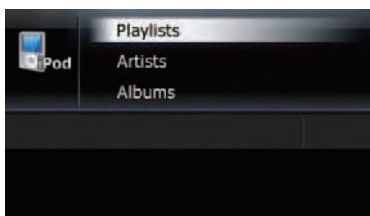
The function select screen appears.

Pressing 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 LIST button to display the top category menu.

- To return to the previous screen, press **BAND/ESC** button.

2 Use 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
 Select the desired item.
 - Turning **MULTI-CONTROL** enables you to perform the equivalent operation.
- Pressing the centre of **MULTI-CONTROL**
 When an item is selected, it narrows down the item with the list.
 - Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.
- Pressing and holding the centre of **MULTI-CONTROL**
 When an item is selected, it plays the first song in the selected item.
 - Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.
- Pressing **MULTI-CONTROL** left
 When the lower tier of items are listed, it returns to the upper tier of items.
 - If the uppermost tier of items are listed, this operation is not available.
- Pressing and holding **MULTI-CONTROL** left
 When the lower tier of items are listed, it returns to the uppermost tier of items.
 - If the uppermost tier of items are listed, this operation is not available.

3 Repeat step 2 to find a song you want to listen to.

- Pressing the centre of **MULTI-CONTROL**
 Plays the selected song (or episode).

Setting a repeat play range



1 Display the "Function Menu" screen.

- ➔ For details, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to select "Play Mode".

3 Press the centre 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"**,  appears.
When the setting is **"Repeat One"**,  appears. ☐

Playback and Pause

1 Display the "Function Menu" screen.

- ➔ For details, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to select "Pause".

3 Press the centre of MULTI-CONTROL to set.



4 Press the centre of MULTI-CONTROL to switch between "On" and "Off". ☐

Using advanced sound retriever

Advanced 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:

- :
Sets to **S.Rtrv1**.
- :
Sets to **S.Rtrv2**.
- No indicator:
Sets to off.
- ☐ **S.Rtrv2** is more effective than **S.Rtrv1**. ☐

Operating this navigation system's iPod function from your iPod


This navigation system's iPod function can be operated from your iPod. 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
- ☐ 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.

Using an 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.
 - Volume
 - Fast forward/reverse
 - Song up/down
 - Pausing
 - S.Rtrv 

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, refer to *Screen switching overview* on page 76.

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

3 Press the centre of MULTI-CONTROL to set.


Each press of **MULTI-CONTROL** changes the settings as follows:

- **"Shuffle Off"**:
Does not shuffle.
- **"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. 

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 this page. 

Playing songs related to the currently playing song


Songs related to the currently playing song are played. You can play songs 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.

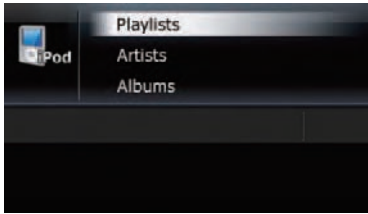
Searching flashes while searching the list and then the playback of the list starts.

- Operations below turn the link play mode off.
 - Pressing **BAND/ESC** or **LIST** button
 - Touching panel keys
 - Pressing **MULTI-CONTROL**
- If the related albums or songs are not found, **Not Found** is displayed. 

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 LIST button to display the top category menu.

- ❑ To return to the previous screen, press **BAND/ESC** button.

2 Turn MULTI-CONTROL to display the desired category.

- **Playlists** (playlists)
- **Artists** (artists)
- **Albums** (albums)
- **Songs** (songs)
- **Podcasts** (podcasts)
- **Genres** (genres)
- **Composers** (composers)
- **Audiobooks** (audiobooks)

3 Press the centre of MULTI-CONTROL to set.

- ❑ Pressing **MULTI-CONTROL** right enables you to perform the equivalent operation.
- ❑ To return to the previous screen, press **MULTI-CONTROL** left.

4 Press LIST button to change the search mode to ABC search.

5 Turn MULTI-CONTROL to select the desired character.

6 Press the centre of MULTI-CONTROL to display the alphabetical list.

- ❑ 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 alphabet search is aborted, **Not Found** is displayed.

7 On the song (or episode) list, turn MULTI-CONTROL to select the song you want to play.

8 Press the centre of MULTI-CONTROL to set. ❑

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, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to display "Audiobooks".

3 Press the centre of MULTI-CONTROL repeatedly until the desired setting appears in the display.

Each press of **MULTI-CONTROL** changes the settings as follows:

- **"Normal"**:
Playback in normal speed.
- **"Slower"**:
Playback slower than normal speed.
- **"Faster"**:
Playback faster than normal speed. ❑

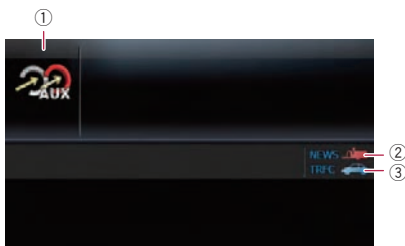
Using the AUX source

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.

Selecting "AUX" as the source

- Press SRC/OFF button to display the "AUX" screen.
 - ☞ For details, refer to *Switching the audio operation screen* on page 75.

Reading the screen



- ① **Source icon**
Shows which source has been selected.
- ② **NEWS indicator**
Shows when the set news programme is received.
- ③ **TRFC indicator**
Shows when a TP station (a station that broadcasts traffic information) is tuned in.

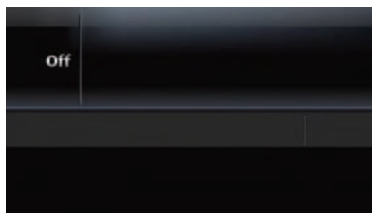
Switching the auxiliary setting

1 Turn MULTI-CONTROL to select "AUX" in the "Initial Setting" screen.

- ☞ For details, refer to *Displaying the "Initial Setting" screen* on page 103.

2 Press the centre of MULTI-CONTROL to turn "AUX" on.

- To turn **AUX** off, press **MULTI-CONTROL** again.



- **Press SRC/OFF and hold until the audio source turns off.**

- ➔ For details, refer to *Switching the audio operation screen* on page 75.
- ☐ To return to the display of each source, press **SRC/OFF** button.

Customising the initial settings

Using the initial settings, you can customise various system settings to achieve optimal performance from this navigation system.

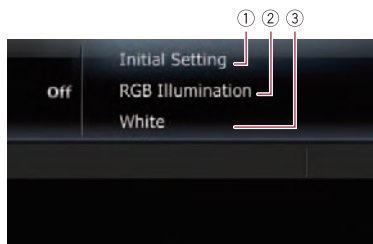
Displaying the “Initial Setting” screen

To customise the initial settings, display the “Initial Setting” screen.

1 Press SRC/OFF and hold until the audio source turns off.

- For details, refer to *Switching the audio operation screen* on page 75.

2 Press the centre of MULTI-CONTROL and hold until the initial setting screen appears in the display.



- ① Screen title
- ② Setting item
- ③ Setting value

Setting the illumination colour

The illumination colour can be selected from 10 different colours. Furthermore, the illumination colour can be switched between these 10 colours in order.

1 Display the “Initial Setting” screen.

- For details, refer to *Displaying the “Initial Setting” screen* on this page.

2 Turn MULTI-CONTROL to select “RGB Illumination”.

3 Press MULTI-CONTROL left or right to select the desired colour.

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 colours in sequence gradually.
- **“Custom”**:
Sets your created colour which is installed from SD as the illumination colour.

Setting the FM tuning step

Normally the FM tuning step employed by seek tuning is 50 kHz. When **AF** or **TA** is on, the tuning step automatically changes to 100 kHz. It may be preferable to set the tuning step to 50 kHz when **AF** is on.

1 Display the “Initial Setting” screen.

- For details, refer to *Displaying the “Initial Setting” screen* on this page.

2 Turn MULTI-CONTROL to select “FM Step”.

3 Press the centre of MULTI-CONTROL to switch between “50kHz” and “100kHz”.

- The tuning step remains at 50 kHz during manual tuning.

Using Auto PI Seek for preset stations

The navigation system can automatically search for a different station with the same programming, even during preset recall.

Customising the initial settings

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 “Auto PI”.

3 Press the centre of MULTI-CONTROL to switch between “On” and “Off”.

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 centre 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**).

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 centre of MULTI-CONTROL to switch between “Rear SP:F.Range” and “Rear SP:S/W”.

When no subwoofer is connected to the rear output, select **Rear SP:F.Range**.

When a subwoofer is connected to the rear output, select **Rear SP:S/W**.

- 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.) 

Setting the rear output

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 “Pre-out”.

3 Press the centre of MULTI-CONTROL to switch between “Subwoofer” and “Rear”.

Switching the sound muting/attenuation

You can select the muting method when the voice guidance is output.

- When you use a mobile phone connected with Bluetooth technology (dialling, 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 the previous page.

Customising the initial settings

2 Turn MULTI-CONTROL to select "Guidance".

3 Press the centre 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.
- Operation returns to normal when the correspond action is ended.

Displaying the “Audio Menu” screen

To customise the audio settings, display the “Audio Menu” screen.

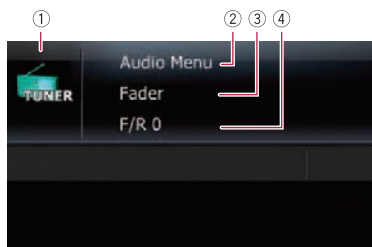
1 Press MULTI-CONTROL to display the function select screen.

- ➔ For details, refer to *Screen switching overview* on page 76.

2 Turn MULTI-CONTROL to select “Audio Menu”.

3 Press the centre of MULTI-CONTROL.

The “Audio Menu” screen appears.



- ① **Source icon**
Shows which source has been selected.
- ② **Screen title**
- ③ **Setting item**
- ④ **Setting value**

Using balance adjustment

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

1 Display the “Audio Menu” screen.

- ➔ For details, refer to *Displaying the “Audio Menu” screen* on this 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.

“Front15” to “Rear15” is displayed as the front/rear speaker balance moves from front to rear.

Setting “Front” and “Rear” to “0” is correct when using a two speaker system.

When “Rear SP:S/W” is selected in “S/W Control”, front/rear speaker balance cannot be adjusted.

- ➔ Refer to *Setting the rear output* on page 104.

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 equaliser

The equaliser lets you adjust equalisation to match vehicle interior acoustic characteristics as desired.

Recalling equaliser curves

There are six stored equaliser curves that you can easily recall at any time. Here is a list of the equaliser curves:

Equaliser curve

SuperBass

SuperBass is a curve in which only low-pitched sound is boosted.

Powerful

Powerful is a curve in which low-pitched and high-pitched sounds are boosted.

Natural

Natural is a curve in which low-pitched and high-pitched sounds are slightly boosted.

Audio adjustments

Vocal

Vocal is a curve in which the midrange, which is the human vocal range, is boosted.

Flat

Flat is a flat curve in which nothing is boosted.

Custom

Custom is an adjusted equaliser curve that you create. A separate custom curve can be created for each source.

1 Display the “Audio Menu” screen.

- For details, refer to *Displaying the “Audio Menu” screen* on the previous page.

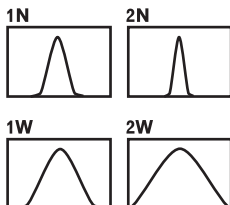
2 Turn MULTI-CONTROL to select “Preset Equalizer”.

3 Press MULTI-CONTROL left or right to select an equaliser curve.

Adjusting the equaliser curves

You can adjust the currently selected equaliser curve setting as desired. Adjustments can be made with a 3-band parametric equaliser.

- **Band:**
You can select the equaliser band.
- **Frequency:**
You can select which frequency to set as the centre frequency.
- **Level:**
You can select the decibel (dB) level of the selected EQ.
- **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 the previous page.

2 Turn MULTI-CONTROL to select “PEQ Setting1”.

3 Press MULTI-CONTROL left or right to select the equaliser band to adjust.

Each time **MULTI-CONTROL** is pressed left or right, level is selected in the following order:

Low — Mid — High

4 Press MULTI-CONTROL up or down to adjust the level of the equaliser band.

Each time **MULTI-CONTROL** is pressed up or down, the level of the equalisation band increases or decreases. “+6” to “-6” is displayed as the level is increased or decreased.

5 Turn MULTI-CONTROL to select “PEQ 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 

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 the previous page.

Audio adjustments

2 Turn MULTI-CONTROL to select “Loudness”.

3 Press the centre 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 106.

2 Turn MULTI-CONTROL to select “Sub-Woofers1”.

3 Press the centre 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.

It changes the settings as follows:

- **“Reverse”**:
Sets to reverse phase.
- **“Normal”**:
Sets to normal phase.

5 Turn MULTI-CONTROL to select “Sub-Woofers2”.

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.

Using the high pass filter

When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, 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 106.

2 Turn MULTI-CONTROL to select “HPF”.

3 Press the centre 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

Audio adjustments

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 106.

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. “**SLA +4**” to “**SLA -4**” is displayed as the source volume is increased or decreased. □

Enhancing bass (Bass)

The “**Bass**” enhances bass sounds, which can be muted by driving noise.

1 Display the “Audio Menu” screen.

- ⇒ For details, refer to *Displaying the “Audio Menu” screen* on page 106.

2 Turn MULTI-CONTROL to select “Bass”.

3 Press MULTI-CONTROL up or down to select a desired level.

“**0**” to “**+6**” is displayed as the level is increased or decreased. □

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.

- ❑ Some data remains. Read *Setting items to be deleted* before you operate this function.
- **Method 1: Press the RESET button**

Pressing the **RESET** button clears almost all settings of the audio function.

 - For details, refer to *Resetting the micro-processor* on page 9.
- **Method 2: Touch [F. Reset]**
 - For details, refer to *Restoring the default setting* on page 70.
- **Method 3: Touch [Reset] on the “Date/Setting Clear” screen**
- **Method 4: Touch [Clear user information] on the “Date/Setting Clear” screen**

Clears some items in the “Settings Menu” and “Phone” menu.

 - For details, refer to *Returning the navigation system to the initial state* on page 70.

Returning the Navigation System to the Default or Factory Settings

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 conditions	—	✓	✓	✓
[Navigation Menu]	Point registered in [Favourites]	—	—	✓	✓
	Sorting order selected in [Favourites]	✓	—	✓	✓
	[History]	—	—	✓	✓
	[Fuel details]	—	✓	✓	✓
	[Traffic Settings]	—	✓	✓	✓
	[TMC Provider Selection]	—	✓	✓	✓
	[Sound]	—	✓	✓	✓
[Settings] menu	[UI Language], [Voice Language]	—	—	✓	✓
	[Time]	—	—	✓	✓
	[Set Home]	—	—	—	✓
	[Demo Mode]	—	✓	✓	✓
	[Brightness]	—	—	✓	✓
	Other settings	—	✓	✓	✓

Returning the Navigation System to the Default or Factory Settings

	[Contacts]	—	✓	✓	✓
[Phone Menu]	[Volume]	—	✓	✓	✓
menu	[Settings]	—	✓	✓	✓
	Call histories	—	✓	✓	✓

Audio functions		Method 1	Method 2	Method 3	Method 4
Volume		✓	—	—	—
Initial Settings	All settings	✓	—	—	—
Audio Menu	All settings	✓	—	—	—
Function Menu of each source	All settings	✓	—	—	—



Appendix

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. While this list is not comprehensive, it should answer your most common problems. If a solution to your problem cannot be found here, contact your dealer or the nearest authorised Pioneer service facility.

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 (in the vehicle power charger) 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. (Page 9)
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 authorised Pioneer Service Station.
You cannot position your vehicle on the map without a significant positioning error.	Signal quality from the GPS satellites is poor causing reduced positioning accuracy. Such a loss of signal quality may occur for the following reasons: <ul style="list-style-type: none"> • This product is in an unsuitable location. • Obstacles are blocking signals from the satellites. • The position of satellites relative to your vehicle is inadequate. • 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.) • If a mobile phone is used near the GPS module, GPS reception may be lost temporarily. 	Check the GPS signal reception, the position of this product and the topside clearance if necessary, or continue driving until reception improves.
	You cannot position your vehicle on the map without a significant positioning error.	Something covers this product's topside.
The navigation system may not be mounted securely in your vehicle.		Check that the navigation system is securely mounted and, if necessary, consult the dealer that installed the system.

Appendix

The map colour 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 27)
The screen is too bright.	An improper value has been set on "Brightness".	Check the settings.
The display is very dim.	An improper value has been set on "Brightness".	Check the settings.
No sounds of audio source are produced. The volume level will not rise.	The volume level is low. A speaker lead is disconnected.	Adjust the volume level. Check the connection.
The volume of navigation guidance and beeps cannot be adjusted.	Try to adjust them with MULTI-CONTROL .	Turn the volume up or down using [Sound] on the "Settings Menu" screen. (Page 65)
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 70)
There is no response when the touch panel key 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 68)

Problems in 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. (For more cautions about handling each type of media, refer to Page 124.)
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.

Appendix

Cannot be operated.	The iPod is frozen.	<ul style="list-style-type: none"> • Reconnect the iPod with the USB interface cable for iPod. • Update the iPod software version.
	An error has occurred.	<ul style="list-style-type: none"> • Reconnect the iPod with the USB interface cable for iPod. • Park your vehicle in a safe place, and apply the handbrake. 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.

Problems with the phone screen

Symptom	Cause	Action (Reference)
Dialling is not possible because the touch panel keys for dialling are inactive.	Your phone is out of range for service.	Retry after re-entering the range for service.
	The connection between the mobile phone and 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 hand 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 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.	<ul style="list-style-type: none"> • Wait until the message "Ready to start up system." appears. After the message is displayed, the navigation system restarts. • Consult the nearest authorised Pioneer service station if this message persists.
Dataloading failed.	You may have transferred the data from your mobile phone in a format cannot be received by the navigation system.	<ul style="list-style-type: none"> • Select a suitable item and format, then retry. (Page 64) • Connect your mobile phone with another method again and retry. (Page 52)



Appendix

Messages for audio functions

When problems occur in the audio source, a message may appear on the display. Refer to the table below to identify the problem, then take the suggested corrective action. If the error persists, contact your dealer or your nearest Pioneer Service Centre.

Built-in CD drive

Message	Cause	Action (Reference)
Error-11, 12, 17, 30	Dirty	Clean the disc.
	Scratched disc	Replace the disc.
Error10, 11, 12, 15, 17, 30, A0, CHK CDCORE	Electrical or mechanical	Turn the ignition switch OFF and back ON, or switch to a different source, then back to the CD player.
Error-15	The inserted disc does not contain any data.	Replace the disc.
Error-23	The CD format cannot be played back.	Replace the disc.
Error-22	The inserted disc does not contain any files that can be played back.	Replace the disc.
No Audio	The inserted disc does not contain any files that can be played back.	Replace the disc.
TRK Skipped	The inserted disc contains files that are protected by DRM.	Replace the disc.
Protect	All the files on the inserted disc are secured by DRM.	Replace the disc.
Heat	The temperature of the navigation system is outside of the normal operating range.	Wait until the unit's temperature returns to within normal operating limits.

USB/iPod

Message	Cause	Action (Reference)
No Audio	The connected USB storage device does not contain any files that can be played back.	Store playable files.
Protect	All the files on the inserted external storage device are secured by DRM.	Store playable files.
TRK Skipped	The protected files are skipped.	Store playable files.
Check USB	The USB connector or USB cable is short-circuited.	Confirm that the USB connector or USB cable is not caught in something or damaged.
	The connected USB storage device consumes more than 500 mA (maximum allowable current).	Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect the compliant USB storage device.
Error-A1	The connected USB storage device consumes more than 500 mA (maximum allowable current).	Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect the compliant USB storage device.

Appendix

CHK CDCORE	Electrical or mechanical	Turn the ignition switch OFF and back ON, or switch to a different source, then back to the USB source.
Error-19	Communication failure	<ul style="list-style-type: none"> • Disconnect the cable from iPod. Once iPod main menu is displayed, connect the cable again. • Disconnect the USB storage device and do not use it. Turn the ignition switch to OFF, then to ACC or ON and then connect the compliant USB storage device. • If the message appears frequently, consult your dealer.
Error-16	The iPod is not compatible with this navigation system.	Use an iPod of a compatible version.
	Communication failure	<ul style="list-style-type: none"> • Disconnect the cable from iPod. Once iPod main menu is displayed, connect the cable again. • Disconnect the cable from iPod. Once iPod main menu is displayed, connect the cable again. • If the message appears frequently, consult your dealer.
N/A USB	The iPod is not compatible with this navigation system.	Use an iPod of a compatible version.
	Old version of iPod	Update the iPod version.
	The USB storage device connected to is not supported by this navigation system.	Connect a USB storage device that is USB Mass Storage Class compliant.
NO SONGS	No songs	Transfer the songs to iPod.
STOP	No songs in the current list	Select a list that contains the songs.



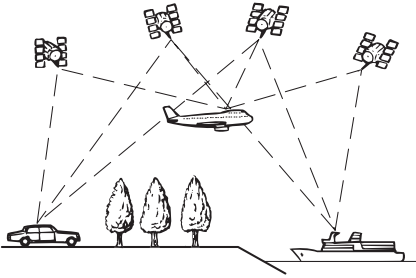
Appendix

Positioning technology

Positioning by GPS

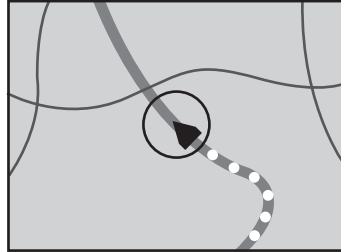
The Global Positioning System (GPS) uses a network of satellites orbiting the Earth. Each of the satellites, which orbit at a height of 21 000 km, continually broadcasts radio signals giving time and position information. This ensures that signals from at least three can be picked up from any open area on the earth's surface.

The accuracy of the GPS information depends on how good the reception is. When the signals are strong and reception is good, GPS can determine latitude, longitude and altitude for accurate positioning in three dimensions. But if signal quality is poor, only two dimensions, latitude and longitude, can be obtained and positioning errors are somewhat greater.

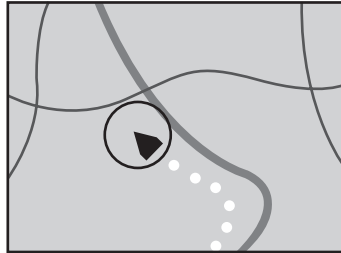


Map matching

As mentioned, the positioning systems used by this navigation system are susceptible to certain errors. Their calculations may, on occasion, place you in a location on the map where no road exists. In this situation, the processing system understands that vehicles travel only on roads, and can correct your position by adjusting it to a nearby road. This is called map matching.



With map matching



Without map matching



Handling large errors

Positioning errors are kept to a minimum by combining GPS and map matching. However, in some situations, these functions may not work properly, and the error may become bigger.

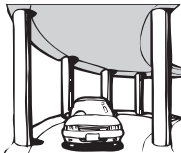
Appendix

When positioning by GPS is impossible

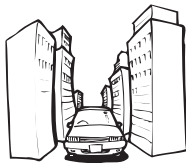
- GPS positioning is disabled if signals cannot be received from more than two GPS satellites.
- In some driving conditions, signals from GPS satellites may not reach your vehicle. In this case, it is impossible for the system to use GPS positioning.



In tunnels or enclosed parking garages



Under elevated roads or similar structures



When driving among high buildings



When driving through a dense forest or tall trees

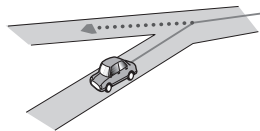
- If a car phone or mobile phone is used near this product, GPS reception may be lost temporarily.
- Do not cover this product with spray paint or vehicle wax, because this may block the reception of GPS signals.
- ☐ If a GPS signal have not been received for a long time, your vehicle's actual position and the current position mark on the map diverge considerably or do not be updated. In such case, once GPS reception is restored, accuracy will be recovered.

Conditions likely to cause noticeable positioning errors

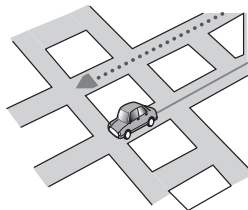
For various reasons, such as the state of the road you are travelling on and the reception status of the GPS signal, the actual position of

your vehicle may differ from the position displayed on the map screen.

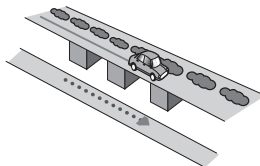
- If you make a shallow turn.



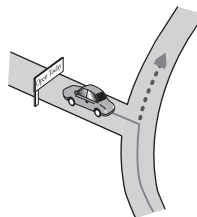
- If there is a parallel road.



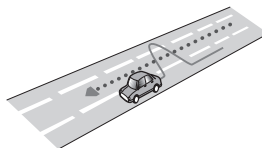
- If there is another road very nearby, such as in the case of an elevated motorway.



- If you take a recently opened road that is not on the map.

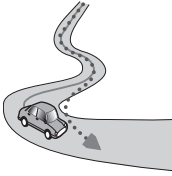


- If you drive in zigzags.

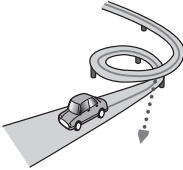


Appendix

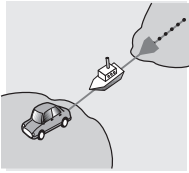
- If the road has a series of hairpin bends.



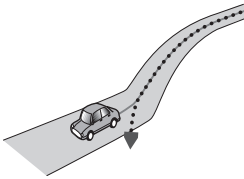
- If there is a loop or similar road configuration.



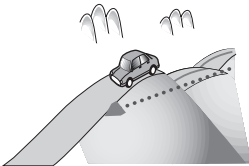
- If you take a ferry.



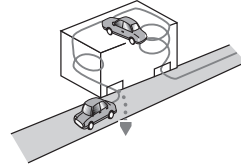
- If you are driving on a long, straight road or a gently curving road.



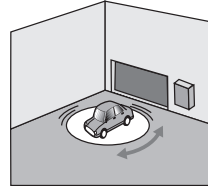
- If you are on a steep mountain road with many height changes.



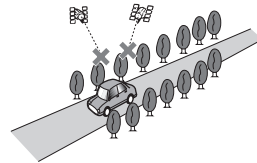
- If you enter or exit a multi-storey car park or similar structure using a spiral ramp.



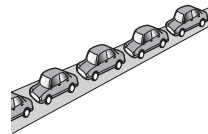
- If your vehicle is turned on a turntable or similar structure.



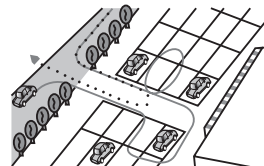
- If trees or other obstacles block the GPS signals for a considerable period.



- If you drive very slowly, or in a start-and-stop manner, as in a traffic jam.

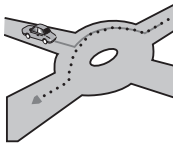


- If you join the road after driving around a large car park.



Appendix

- When you drive around a roundabout.



- When starting driving immediately after starting the engine.

Route setting information

Route search specifications

Your navigation system sets a route to your destination by applying certain built-in rules to the map data. This section provides some useful information about how a route is set.

CAUTION

When a route is calculated, the route and voice guidance for the route are automatically set. Also, for day or time traffic regulations, only information about traffic regulations applicable at the time when the route was calculated is shown. One-way streets and street closures may not be taken into consideration. For example, if a street is open during the morning only, but you arrive later, it would be against the traffic regulations so you cannot drive along the set route. When driving, please follow the actual traffic signs. Also, the system may not know some traffic regulations.

- The calculated route is one example of the route to your destination decided by the navigation system while taking the type of streets or traffic regulations into account. It is not necessarily an optimum route. (In some cases, you may not be able to set the streets you want to take. If you need to take a certain street, set a waypoint on that street.)
- If the destination is too far, there may be instances where the route cannot be set.

- During voice guidance, turns and intersections from the motorway are announced. However, if you pass intersections, turns, and other guidance points in rapid succession, some may delay or not be announced.
- It is possible that guidance may direct you off a motorway and then back on again.
- In some cases, the route may require you to travel in the opposite direction to your current heading. In such cases, you are instructed to turn around, so please turn around safely by following the actual traffic rules.
- In some cases, a route may begin on the opposite side of a railway or river from your actual current location. If this happens, drive towards your destination for a while, and try route calculation again.
- When there is a traffic jam ahead, a detour route may not be suggested if driving through the traffic jam would still be better than taking the detour.
- There may be instances when the starting point, the waypoint and the destination point are not on the highlighted route.
- The number of roundabout exits displayed on the screen may differ from the actual number of roads.

Route highlighting

- Once set, the route is highlighted in bright colour on the map.
- The immediate vicinity of your starting point and destination may not be highlighted, and neither will areas with particularly complex road layouts. Consequently, the route may appear to be cut off on the display, but voice guidance will continue.

Handling and care of discs

Some basic precautions are necessary when handling your discs.

Appendix

Built-in drive and care

- Use only conventional, fully circular discs. Do not use shaped discs.



- Do not use cracked, chipped, warped, or otherwise damaged discs as they may damage the built-in drive.
- Do not touch the recorded surface of the discs.
- Store discs in their cases when not in use.
- Avoid leaving discs in excessively hot environments including under direct sunlight.
- Do not attach labels, write on or apply chemicals to the surface of the discs.
- To clean a disc, wipe it with a soft cloth, moving outward from the centre.



- Condensation may temporarily impair the built-in drive's performance. Leave it to adjust to the warmer temperature for about one hour. Also, wipe any damp discs with a soft cloth.
- Playback of discs may not be possible because of disc characteristics, disc format, recorded application, playback environment, storage conditions and so on.
- Road shocks may interrupt disc playback.
- Read the precautions for discs before using them.

Ambient conditions for playing a disc

- At extremely high temperatures, a temperature cutout protects this product by switching it off automatically.

- Despite our careful design of the product, small scratches that do not affect actual operation may appear on the disc surface as a result of mechanical wear, ambient conditions for use or handling of the disc. This is not a sign of the malfunction of this product. Consider it to be normal wear and tear. ■

Playable discs

CD

CD discs that display the logos shown below generally can be played on this built-in CD drive.

CD



Appendix

Detailed information for playable media

Compatibility

CD-R/CD-RW discs

- Unfinalised discs cannot be played back.
- It may not be possible to play back CD-R/CD-RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, scratches or condensation on the lens of the built-in drive.
- Playback of discs recorded on a personal computer may not be possible, depending on the recording device, writing software, their settings, and other environmental factors.
- Please record with the correct format. (For more details, please contact manufacturer of media, recorders, or writing software.)
- Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this product (in the case of audio data (CD-DA)).
- Read the precautions with CD-R/CD-RW discs before using them.

Common notes about the external storage device (USB, SD)

- Do not leave the external storage device (USB, SD) in any location with high temperatures.
- Operations may vary depending on the kind of an external storage device (USB, SD).

Common notes about the USB storage device

- Depending on the kind of the USB storage device you use, this navigation system may not recognise the storage device or files may not be played back properly.
- The text information of some audio files may not be correctly displayed.
- File extensions must be used properly.

- There may be a slight delay when starting playback of files on a USB storage device with complex folder hierarchies.
- It may not be possible to play some music files from USB because of file characteristics, file format, recorded application, playback environment, storage conditions, and so on.

Common notes about the SD memory card

- Depending on the kind of the SD memory card you use, this navigation system may not recognise the storage device or files may not be played back properly.

USB storage device compatibility

- ➔ For more details about USB storage device compatibility with this navigation system, refer to *Specifications* on page 135.

Protocol: bulk

- You cannot connect a USB storage device to this navigation system via a USB hub.
- Partitioned USB memory is not compatible with this navigation system.
- Firmly secure the USB storage device when driving. Do not let the USB storage device fall onto the floor, where it may become jammed under the brake or accelerator pedal.
- There may be a slight delay when starting playback of audio files encoded with image data.
- Some USB storage devices connected to this navigation system may generate noise on the radio.
- Do not connect anything other than the USB memory device.

The sequence of audio files on USB memory

For USB memory, the sequence is different from that of USB memory device.

Appendix

SD memory card and SDHC memory card

- For more details about SD memory card compatibility with this navigation system, refer to *Specifications* on page 135.
- This system is not compatible with Multi Media Card (MMC).

Handling guidelines and supplemental information

- Copyright protected files cannot be played back.

Appendix

Media compatibility chart

General

Media	CD-R/-RW	USB storage device
File system	ISO9660 level 1, ISO9660 level 2, Romeo and Joliet	FAT16/FAT32
Maximum number of folders	255	500
Maximum number of files	999	15 000
Playable file types	MP3, WMA, AAC, WAV	MP3, WMA, AAC, WAV

MP3 compatibility

Media	CD-R/-RW, USB storage device
File extension	.mp3
Bit rate	8 kbps to 320 kbps (CBR), VBR
Sampling frequency	16 kHz to 48 kHz
ID3 tag	ID3 Tag Ver. 1.0, 1.1, 2.2, 2.3, 2.4
Notes: <ul style="list-style-type: none"> Ver. 2.x of ID3 Tag is given priority when both Ver. 1.x and Ver. 2.x exist. The navigation system is not compatible with the following: MP3i (MP3 interactive), mp3 PRO, m3u playlist 	

WMA compatibility

Media	CD-R/-RW, USB storage device
File extension	.wma
Bit rate	48 kbps to 384 kbps (CBR), VBR
Sampling frequency	32 kHz to 48 kHz
Note: <ul style="list-style-type: none"> The navigation system is not compatible with the following: Windows Media Audio 9 Professional, Lossless, Voice 	

Appendix

WAV compatibility

Media	CD-R/-RW, USB storage device
File extension	.wav
Format	Linear PCM (LPCM), MS ADPCM
Sampling frequency	LPCM: 16 kHz to 48 kHz MS ADPCM: 22.05 kHz and 44.1 kHz

AAC compatibility

Media	CD-R/-RW, USB storage device
File extension	.m4a
Bit rate	16 kbps to 320 kbps (CBR)
Sampling frequency	11.025 kHz to 48 kHz
Notes: <ul style="list-style-type: none"> The navigation system plays back AAC files encoded by iTunes. The navigation system is not compatible with the following: Apple Lossless, files encoded with VBR 	

Common notes

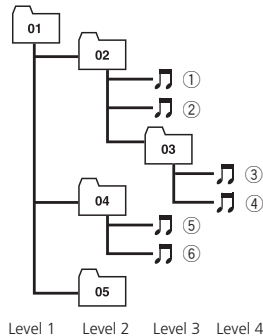
- The navigation system may not operate correctly, depending on the application used to encode WMA files.
- Depending on the version of Windows Media Player used to encode WMA files, album names and other text information may not be correctly displayed.
- There may be a slight delay when starting playback of audio files encoded with image data.
- The navigation system is not compatible with packet write data transfer.
- This navigation system can recognise up to 32 characters, beginning with the first character, including extension for the file and folder name. However, the maximum number of the characters that you can display varies according to the width of each character, and of the display area.
- Folder selection sequence or other operations may be altered, depending on the encoding or writing software.
- Regardless of the length of blank section between the songs of original recording,

compressed audio discs play with a short pause between songs.

Example of a hierarchy

The following figure is an example of the tier structure in the disc. The numbers in the figure indicate the order in which folder numbers are assigned and the order to be played back.

📁: Folder
🎵: File



Level 1 Level 2 Level 3 Level 4

Appendix

Notes

- This product assigns folder numbers. The user cannot assign folder numbers.
- If there is a folder that does not contain any playable file, the folder itself will display in the folder list but you cannot check any files in the folder. (A blank list will appear.) Also, these folders will be skipped without displaying the folder number.

Bluetooth



Bluetooth is a short-range wireless radio connectivity technology that is developed as a cable replacement for mobile phones, handheld PCs and other devices. Bluetooth operates in 2.4 GHz frequency range and transmits voice and data at speeds up to 1 megabit per second. Bluetooth was launched by a special interest group (SIG) comprising Ericsson Inc., Intel Corp., Nokia Corp., Toshiba and IBM in 1998, and it is currently developed by nearly 2 000 companies worldwide.

- The *Bluetooth*[®] word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Pioneer Corporation is under licence. Other trademarks and trade names are those of their respective owners.

SD and SDHC logo



SD Logo is a trademark.



SDHC Logo is a trademark.

WMA



The Windows Media[™] logo printed on the box indicates that this unit can play back WMA data.

WMA is short for Windows Media Audio and refers to an audio compression technology that is developed by Microsoft Corporation. WMA data can be encoded by using Windows Media Player version 7 or later.

Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a licence from Microsoft Licensing, Inc.

AAC

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-2 and MPEG-4. Several applications can be used to encode AAC files, but file formats and extensions differ depending on the application which is used to encode. This unit plays back AAC files encoded by iTunes version 7.7.


- iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.

Appendix

Detailed information regarding connectable iPods

CAUTION


- Pioneer accepts no responsibility for data lost from an iPod, even if that data is lost while using the navigation system.
- Do not leave the iPod in direct sunlight for extended amounts of time. Extended exposure to direct sunlight can result in iPod malfunction due to the resulting high temperature.
- Do not leave the iPod in any location with high temperatures.
- Firmly secure the iPod when driving. Do not let the iPod fall onto the floor, where it may become jammed under the brake or accelerator pedal.

For details, refer to the iPod's manuals. 

iPod



"Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries. 


iPhone



"Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.

iPhone is a trademark of Apple Inc. 

iTunes

iTunes is a trademark of Apple Inc., registered in the U.S. and other countries. 

Appendix

Using the LCD screen correctly

Handling the LCD screen

- When the LCD screen is subjected to direct sunlight for a long period of time, it will become very hot, resulting in possible damage to the LCD screen. When not using this navigation system, avoid exposing it to direct sunlight as much as possible.
- The LCD screen should be used within the temperature ranges shown in “*Specifications*”.
- Do not use the LCD screen at temperatures higher or lower than the operating temperature range, because the LCD screen may not operate normally and could be damaged.
- The LCD screen is exposed in order to increase its visibility within the vehicle. Please do not press strongly on it as this may damage it.
- Do not push the LCD screen with excessive force as this may scratch it.
- Never touch the LCD screen with anything besides your finger when operating the Touch Panel functions. The LCD screen can scratch easily. (The stylus is supplied for special calibrations. Do not use the stylus for normal operation.)

Liquid crystal display (LCD) screen

- If the LCD screen is near the vent of an air conditioner, make sure that air from the air conditioner is not blowing on it. Heat from the heater may break the LCD screen, and cool air from the cooler may cause moisture to form inside the navigation unit, resulting in possible damage.
- Small black dots or white dots (bright dots) may appear on the LCD screen. These are due to the characteristics of the LCD screen and do not indicate a malfunction.
- The LCD screen will be difficult to see if it is exposed to direct sunlight.
- When using a mobile phone, keep the antenna of the mobile phone away from the

LCD screen to prevent disruption of the video in the form of disturbances such as spots or coloured stripes.

Maintaining the LCD screen

- When removing dust from the LCD screen or cleaning it, first turn the system power off, then wipe with a soft dry cloth.
- When wiping the LCD screen, take care not to scratch the surface. Do not use harsh or abrasive chemical cleaners.

LED (light-emitting diode) backlight

A light emitting diode is used inside the display to illuminate the LCD screen.

- At low temperatures, using the LED backlight may increase image lag and degrade the image quality because of the characteristics of the LCD screen. Image quality will improve with an increase in temperature.
- The product lifetime of the LED backlight is more than 10 000 hours. However, it may decrease if used in high temperatures.
- If the LED backlight reaches the end of its product lifetime, the screen will become dimmer and the image will no longer be visible. In that case, please consult your dealer or the nearest authorised PIONEER Service Station. ▣

Appendix

Display information

“Navigation Menu” screen



	Page
[Address]	37, 38
[Go Home]	39
[POI]	39
[Petrol]	40
[ATM]	
[Parking]	
[Hotel]	
[Spell Name]	40
[Near Me]	40
[Near Dest.]	41
[Around City]	31
[AVIC FEEDS]	42
[Favourites]	42, 44
[History]	42, 46
[Coordinate]	43
[Cancel]	36
[Fuel details]	67, 71
[Traffic]	48
[Connect PC]	74
[Route info]	34
[Cpy Setting]	67
[Data In/Out]	72, 73
[Eject SD]	12
[Settings]	131
[Phone]	52

“Settings Menu” screen

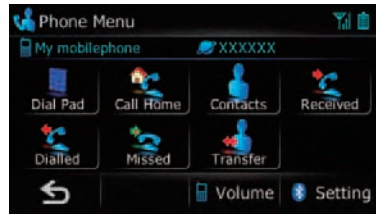


	Page
[Sound]	65
[Region]	65
[UI Language], [Voice Language]	65
[Time]	65
[km / mile]	66
[Speed]	66
[Keyboard]	66
[Map]	25
[Overlay POI]	26
[View Mode]	27
[Show Manoeuvre]	27
[AV Guide Mode]	29
[Day/Night Display]	27
[Road Colour]	28
[Close Up View]	28
[Favourites Icon]	28
[Show Speed Limit]	28
[Traffic Incident]	28
[Current Street]	29
[Backlight Timeout]	68
[Calibrate]	68
[Set Home]	45
[Location]	69
[Connection]	69
[Service Info]	69

Appendix

[Drive Log]	72
[Demo Mode]	36
[Safe Mode]	67
[Brightness]	69
[F. Reset]	70
[Screen Off]	70

“Phone Menu” screen



	Page
[Dial Pad]	56
[Call Home]	56
[Contacts]	56
[Received]	57
[Dialed]	57
[Missed]	58
[Transfer]	60
[Volume]	
[Phone Ringtone]	61
[Phone Voice]	
[Settings]	61
[Connections]	55
[Bluetooth On/Off]	62
[Auto Answer Preference]	62
[Refuse All Calls]	62
[Echo Cancel]	62
[Auto Connect]	63
[Edit Name]	63
[Clear Memory]	61
[Bluetooth Software Update]	64



Appendix

Glossary

AAC

AAC is short for Advanced Audio Coding and refers to an audio compression technology standard used with MPEG-2 and MPEG-4.

Bit rate

This expresses data volume per second, or bps units (bits per second). The higher the rate, the more information is available to reproduce the sound. Using the same encoding method (such as MP3), the higher the rate, the better the sound.

CD-DA

This stands for a general music CD (commercial-release audio CD). In this manual, this word is sometime used for a distinction between data CDs (which include compressed audio files) and general music CDs.

Current location

The present location of your vehicle; your current location is shown on the map by a red triangle mark.

Destination

A location you choose as the end point of your journey.

Favourites

A frequently visited location (such as your workplace or a relative's home) that you can register to allow easy routing.

GPS

Global Positioning System. A network of satellites that provides navigation signals for a variety of purposes.

Guidance mode

The mode in which guidance is given as you drive to your destination; the system automatically switches to this mode as soon as a route has been set.

Guidance point

These are important landmarks along your route, generally intersections. The next gui-

dance point along your route is indicated on the map by the yellow flag icon.

Home location

Your registered home location.

ID3 tag

This is a method of embedding track-related information in an MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 Tag editing functions. Although the tags are restricted by the number of characters, the information can be viewed when the track is played back.

ISO9660 format

This is the international standard for the format logic of DVD/CD-ROM folders and files. For the ISO9660 format, there are regulations for the following two levels:

Level 1:

The file name is in 8.3 format (the name consists of up to 8 characters, half-byte English capital letters, half-byte numerals and the "_" sign, with a file-extension of three characters).

Level 2:

The file name can have up to 31 characters (including the separation mark "." and a file extension). Each folder contains less than 8 hierarchies.

Extended formats

Joliet:

File names can have up to 64 characters.

Romeo:

File names can have up to 128 characters.

- **Level 1:**

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Appendix

- **Extended formats**

Joliet:

File names can have up to 64 characters.

Romeo:

File names can have up to 128 characters.

MP3

MP3 is short for MPEG Audio Layer 3. It is an audio compression standard established by a working group (MPEG) of the ISO (International Standards Organization). MP3 is able to compress audio data to about 1/10th the size of a conventional disc.

MPEG

This stands for Moving Pictures Experts Group, and is an international video image compression standard.

Multi-session

Multi-session is a recording method that allows additional data to be recorded later. When recording data on a CD-ROM, CD-R or CD-RW, etc., all data from beginning to end is treated as a single unit or session. Multi-session is a method of recording more than 2 sessions in one disc.

Packet write

This is a general term for a method of writing individual files to a CD-R, etc. whenever required, just as is done with files on floppy or hard disks.

Phone book

An address book on user's phone is collectively referred to as "Phone book". Depending on the mobile phone, the "Phone book" may be called a name such as "Contacts", "Business card" or something else.

Point of Interest (POI)

Point Of Interest; any of a range of locations stored in the data, such as railway stations, shops, restaurants, and amusement parks.

RDS-TMC

A communication system for informing drivers of the latest traffic information using FM multiplex broadcast. Information such as traffic

jams or accidents can be checked on the display.

Route setting

The process of determining the ideal route to a specific location; route setting is done automatically by the system when you specify a destination.

Set route

The route marked out by the system to your destination. It is highlighted in bright colour on the map.

Track log

Your navigation system logs routes that you already passed through if the track logger is activated. This recorded route is called a "track log". It is handy when you want to check a route travelled or if returning along a complex route.

VBR

VBR is short for variable bit rate. Generally speaking, CBR (constant bit rate) is more widely used. But by flexibly adjusting the bit rate according to the needs of audio compression, it is possible to achieve compression-priority sound quality.

Voice guidance

The giving of directions by navigation voice while in guidance.

Waypoint

A location that you choose to visit before your destination; a journey can be built up from multiple waypoints and the destination.

WMA

WMA is short for Windows Media™ Audio and refers to an audio compression technology that is developed by Microsoft Corporation. 

Appendix

Specifications

General

Rated power source	14.4 V DC (allowable voltage range: 10.8 V to 15.1 V DC)
Earthing system	Negative type
Maximum current consumption	10.0 A
Dimensions (W × H × D):	
DIN	
Chassis	178 mm × 100 mm × 149 mm
Nose	188 mm × 118 mm × 16 mm
D	
Chassis	178 mm × 100 mm × 157 mm
Nose	171 mm × 97 mm × 8 mm
Detachable device	130 mm × 73 mm × 19 mm
Weight	1.7 kg
NAND flash memory	4 GB

Navigation

GPS Receiver:	
System	L1, C/Acode GPS SPS (Standard Positioning Service)
Reception system	20-channel multi-channel reception system
Reception frequency	1 575.42 MHz
Sensitivity	-140 dBm (typ)
Position update frequency	Approx. once per second
GPS aerial:	
Aerial	Micro strip flat aerial/right-handed helical polarisation
Aerial cable	5.0 m
Dimensions (W × H × D)	33 mm × 14.7 mm × 36 mm
Weight	96 g

Display

Screen size/aspect ratio	4.3 inch wide/16:9 (effective display area: 95 mm × 53 mm)
Pixels	130 560 (480 × 272)
Display method	TFT Active matrix driving
Backlight	LED
Tolerable temperature range:	
Power on	-10°C to +60°C
Power off	-20°C to +80°C

Audio

Maximum power output	50 W × 4
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Continuous power output	22 W × 4 (50 Hz to 15 kHz, 5%THD, 4 Ω LOAD, Both Channels Driven)
Load impedance	4 Ω (4 Ω to 8 Ω [2 Ω for 1 ch] allowable)
Preout output level (max)	2.2 V
Preout impedance	1 kohm
Equaliser (3-Band Parametric Equaliser):	
Low	
Frequency	40 Hz/80 Hz/100 Hz/160 Hz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12 dB
Mid	
Frequency	200 Hz/500 Hz/1 kHz/2 kHz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12 dB
High	
Frequency	3.15 kHz/8 kHz/10 kHz/ 12.5 kHz
Q Factor	0.35/0.59/0.95/1.15 (+6 dB when boosted)
Gain	±12 dB
Loudness contour:	
Low	+3.5 dB (100 Hz), +3 dB (10 kHz)
Mid	+10 dB (100 Hz), +6.5 dB (10 kHz)
High	+11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB)
HPF:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope	-12 dB/oct
Subwoofer:	
Frequency	50 Hz/63 Hz/80 Hz/100 Hz/ 125 Hz
Slope	-18 dB/oct
Gain	-24/+6 dB
Phase	Normal/Reverse
Bass boost:	
Gain	0 dB to +12 dB

CD drive

System	CD, MP3, WMA, AAC, WAV system
Usable discs	CD, MP3, WMA, AAC, WAV
Signal-to-noise ratio	94 dB (1 kHz) (IEC-A net- work)
MP3 decoding format	MPEG-1 & 2 Audio Layer 3
WMA decoding format	Ver.7,7.1,8,9,10 (2 ch audio) (Windows Media Player)
AAC decoding format	MPEG-4 AAC (iTunes en- coded only)

Appendix

WAVE SIGNAL FORMAT Linear-PCM; MS ADPCM
(Non Compressed)

USB

Head unit

USB standard spec. USB 2.0 Full Speed
Max current supply 500 mA
Minimum memory capacity
..... 256 MB
File system FAT16, FAT32
USB class Mass storage class
Decoding format MP3/WMA/AAC/WAVE

Detachable device

USB standard spec. USB 2.0 High Speed
Max current supply 500 mA
File system FAT16, FAT32
USB class Mass storage class

SD

Compatible physical format

..... Version 2.00
Max memory capacity 16 GB
File system FAT16, FAT32

Bluetooth

Version Bluetooth 1.2 certified
Output power +4 dBm Max.
(Power class 2)

FM tuner

Frequency range 87.5 MHz to 108.0 MHz
Usable sensitivity 8 dBf ($0.7 \mu\text{V}/75 \Omega$ mono,
S/N: 30 dB)
Signal-to-noise ratio 75 dB (IEC-A network)
Distortion 0.3 % (at 65 dBf, 1 kHz,
stereo)
0.1 % (at 65 dBf, 1 kHz,
mono)
Frequency response 30 Hz to 15 000 Hz (± 3 dB)
Stereo separation 45 dB (at 65 dBf, 1 kHz)

MW tuner

Frequency range 531 kHz to 1 602 kHz (9 kHz)
Usable sensitivity $18 \mu\text{V}$ (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IEC-A network)

LW tuner

Frequency range 153 kHz to 281 kHz
Usable sensitivity $30 \mu\text{V}$ (S/N: 20 dB)
Signal-to-noise ratio 65 dB (IEC-A network)



Note

Specifications and design are subject to possible modifications without notice due to improvements. ■

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Si prega di visitare il sito **www.pioneer.it** (o **www.pioneer.eu**) per registrare il prodotto.

Bezoek **www.pioneer.nl** (of **www.pioneer.eu**) om uw product te registreren.

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