

DVD Navigation Unit

ENGLISH

Operation Manual

AVIC-9DVD

Pioneer

**The screen shown in the example may differ from the actual screen.
The actual screen may be changed without notice for performance and function
improvements.**

Introduction



Dear Customer:

Selecting fine audio equipment such as the unit you've just purchased is only the start of your musical enjoyment. Now it's time to consider how you can maximize the fun and excitement your equipment offers. This manufacturer and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing.

Sound can be deceiving. Over time your hearing "comfort level" adapts to higher volumes of sound. So what sounds "normal" can actually be loud and harmful to your hearing. Guard against this by setting your equipment at a safe level BEFORE your hearing adapts.

To establish a safe level:

- Start your volume control at a low setting.
- Slowly increase the sound until you can hear it comfortably and clearly, and without distortion.

Once you have established a comfortable sound level:

- Set the dial and leave it there.

Taking a minute to do this now will help to prevent hearing damage or loss in the future. After all, we want you listening for a lifetime.

We Want You Listening For A Lifetime

Used wisely, your new sound equipment will provide a lifetime of fun and enjoyment. Since hearing damage from loud noise is often undetectable until it is too late, this manufacturer and the Electronic Industries Association's Consumer Electronics Group recommend you avoid prolonged exposure to excessive noise. This list of sound levels is included for your protection.

Decibel

Level	Example
30	Quiet library, soft whispers
40	Living room, refrigerator, bedroom away from traffic
50	Light traffic, normal conversation, quiet office
60	Air conditioner at 20 feet, sewing machine
70	Vacuum cleaner, hair dryer, noisy restaurant
80	Average city traffic, garbage disposals, alarm clock at two feet.

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

90	Subway, motorcycle, truck traffic, lawn mower
100	Garbage truck, chain saw, pneumatic drill
120	Rock band concert in front of speakers, thunderclap
140	Gunshot blast, jet plane
180	Rocket launching pad

Information courtesy of the Deafness Research Foundation.



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- Never allow others to use the system unless they have read and understood the operating instructions.
- Never use this Navigation System to route to hospitals, police stations, or similar facilities in an emergency. The map data may not include a comprehensive list of emergency service facilities.
- Route and guidance information displayed by this equipment is for reference purposes only. It may not accurately reflect the latest permissible routes, road conditions, or traffic restrictions.
- Traffic restrictions and advisories currently in force should always take precedence over guidance given by this product. Always obey current traffic restrictions, even if this product provides contrary advice.
- Failure to input correct information about the local time may result in the product providing improper routing and guidance instructions.
- Never set the volume of your Navigation System so high that you cannot hear outside traffic and emergency cars.
- Keep your password secure and confidential. Knowledge of your password can give someone else access to personal information stored by the system, such as the history of destinations you have been to and your home address.
- To promote safety, certain functions are disabled unless the parking brake is on.
- The data encoded in the disc provided with this product is the intellectual property of the provider, and the provider is responsible for such content.
- As with any accessory in your car's interior, you should not allow this Navigation System to divert your attention from the safe operation of your car. If you experience difficulty in operating the system or reading the display, please make adjustments while safely parked.

Notes Before Using the System

■ Important

The serial number of this device is located on the bottom of this product. For your own security and convenience, be sure to record this number on the enclosed warranty card.

■ Precaution

CAUTION:USE OF CONTROL OR ADJUSTMENT OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION:THE USE OF OPTICAL INSTRUMENTS WITH THIS PRODUCT WILL INCREASE EYE HAZARD.

■ After-sales service for Pioneer products

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

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

U.S.A

Pioneer Electronics Service, Inc.
CUSTOMER SERVICE DEPARTMENT
P.O. Box 1760
Long Beach, CA 90801
800-421-1404

CANADA

Pioneer Electronics of Canada, Inc.
CUSTOMER SATISFACTION
DEPARTMENT
300 Allstate Parkway
Markham, Ontario L3R 0P2
(905) 479-4411
1-877-283-5901

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

Parking brake interlock

Certain functions offered by this Navigation System could be dangerous if used while driving. To prevent them being used while in motion, there is an interlock with your car's parking brake. If you attempt to use these functions while driving, the message "You cannot use this function while driving" will be displayed. Find a safe place to stop and apply the parking brake.

Color difference of the map display between day and night

To prevent the normal display from appearing too bright and distracting you when driving after dark or in dull conditions, the map background changes automatically to a darker color when you switch on your car lights. You can, however, turn off this automatic switching (see “Day/Night Map Display” on page 98).



Daytime Map



Nighttime Map

The examples in this manual are illustrated using the daytime display. When driving at night, the colors you see may differ from those shown.

To use this function, the Orange/white lead to this unit must be connected correctly.

Avoiding low battery

When using this unit, make sure to start your engine first. Using this unit without starting the engine will run down the battery.

About this disc

For using this unit, use only the disc specified by Pioneer. You cannot use other discs.

How to Read This Manual

This manual provides all the information you need to make full use of your new Navigation System. The first few sections give an overview of the system and explain how to prepare it for use. The remainder is in the form of a function reference giving full details of every feature. A comprehensive list of all sections of the manual is provided in the table of contents at the beginning of this introduction.

■ How to use this manual

For reasons of safety, it is particularly important that you fully understand your Navigation System before using it. However, you don't have to read the whole manual before obtaining guidance to your first destination. The following summary indicates which chapters you should read now and which you can come back to later.

Read the chapters marked * before attempting to obtain guidance to your first destination.

1. Getting Started*

This chapter introduces the components of your Navigation System and takes you through the initial setup process. You should read this chapter first.

2. Basic Operation*

Read this chapter after going through the setup process. It explains what you see on the display and how to use the menus. You will then be ready to navigate to your first destination.

3. Setting a Route to Your Destination*

This chapter describes a number of ways to choose a destination. Choose the one that suits your first destination and read that section; you can then come back and read the rest of the chapter later.

4. Guidance to Your Destination*

Before actually setting out toward your chosen destination, read this chapter to learn how to interpret the guidance given by your Navigation System.

5. Utilizing Various Information

This chapter provides information about the various information available. Read it to learn more about the useful features available to you.

6. Customizing Your Navigation System

The behavior of your Navigation System depends on a number of settings. If you need to change any of the initial settings (default settings), read the relevant section of this chapter.

7. Operating Your Navigation System with Voice

This chapter gives details of the voice recognition capabilities of your Navigation System. Read it when you are ready to begin giving voice commands while under guidance.

8. Playing DVD/CD

With this unit, you can play DVD or CD. This chapter describes how to use the disc, such as play/pause, single frame step.

Appendix

Read the appendix to learn more about your Navigation System, the technology it uses, and such information as the availability of after-care. Please see “**Display Information**” in the end of this manual for checking the details of each item on the menu.

■ 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 Remote Controller are referred to as: NAVI button, MENU button.
- Items in various menus are referred to like this: “New Destination” and “Settings”.
- Extra information, alternative use and other notes are presented like this:

☞ After removing the disc from the slot, keep it in the case.

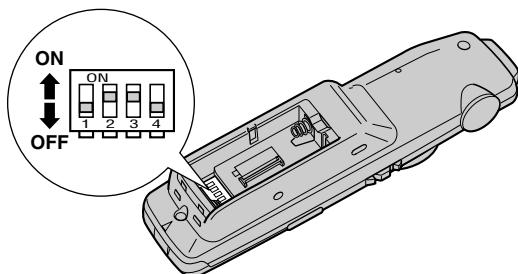
Getting Started

Setup 1: Getting Ready for the Remote Controller

You generally use the Remote Controller to operate the Navigation System. Before using the Remote Controller, set the dipswitches and insert the batteries as described in the following sections.

■ Selecting dipswitches

When you remove the battery cover of the Remote Controller, you will see the dipswitches as shown in the following illustration. You can set each dipswitch using the tip of a ballpoint pen.



Setting Switch 1

Set Switch 1 depending on the display used.

ON : This is set if turning this on is recommended for a display used with this unit.

OFF : When the following Pioneer displays are used for navigation display:
AVX-P7000CD, AVX-7000, AVD-W8000, AVD-W6000, AVD-W6010,
AVX-7300, AVX-P7300DVD

Setting Switch 2

This sets what equipment's volume is adjusted when you alter the VOL dial.

ON : Volume of Pioneer Head Unit (including Pioneer AV master unit) is adjusted.

OFF : Volume of the voice guidance of Navigation system is adjusted.

Setting Switch 3

Set Switch 3 depending on the audio equipment used:

ON : When combining with Pioneer AV master unit (AVM-P9000R, AVM-P8000R)

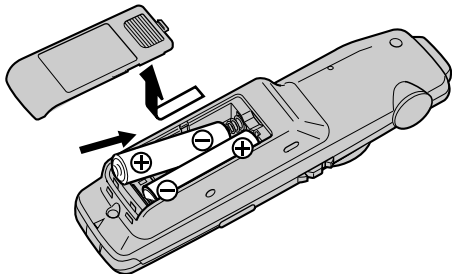
OFF : When combining with Pioneer Head Unit with IP-BUS
When combining with AVM-P7000R

⌋ Switches 4 is not to be used (It does not matter whether it is ON or OFF).

⌋ Please set the switches correctly according to the combination of your equipment. Please make sure that the setting is correct, otherwise the Navigation System will not work properly.

■ Inserting the batteries to the Remote Controller

Remove the battery cover, and insert two alkaline (UM-4, AAA, LR03, 1.5V) batteries.



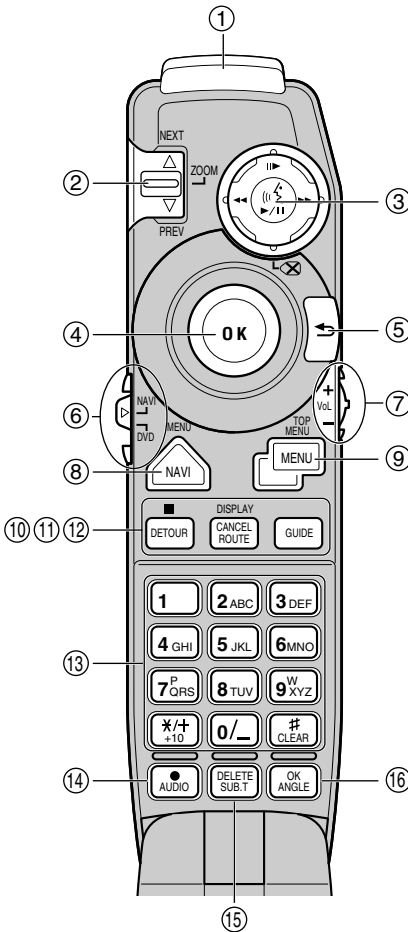
Caution

- Take care to insert the batteries the right way round as shown by the + and - marks in the diagram.
 - Do not mix new batteries with old.
 - Do not mix different types of batteries. Even batteries of the same size may have different voltages.
 - If the Remote Controller will be out of use for a long period, remove the batteries.
 - If a battery leaks, completely clean any liquid or deposits from the battery compartment before inserting new batteries.
 - The supplied batteries cannot be recharged.
 - We recommend using alkaline batteries as replacements.
 - When disposing of used batteries, please comply with governmental regulations or environmental public institutional rules that apply in your country/area.
-

Setup 2: Getting to Know the Components and What They Do

Before using this unit, get to know the name of each component and how it is used.

■ The Remote Controller



(1) Transmitter

Signals of the Remote Controller are transmitted from here.

(2) Scale controller

You use the scale controller to enlarge or reduce the displayed map. When you move the scale controller downwards, the scale of the displayed map is enlarged and a more detailed map is displayed. Conversely, moving it upwards reduces the displayed map, and a wider area is displayed. Also, when a list is longer than one screen, this controller is used for indicating the next screen or previous screen.

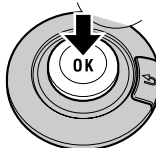
(3) TALK button

You use the TALK button to start voice recognition, allowing you to command the Navigation System by speech. When a voice command is given, you can cycle through possible matches by clicking down this button.

➤ With the "CD-SR80" Steering Remote Controller (sold separately), you can press the BAND button and the F button to switch on the operation mode of the Steering Remote Controller. When the operation mode is switched on, by pressing the BAND button of the Steering Remote Controller, you can activate voice operation, which is equivalent of pressing the TALK button.

(4) Joystick/OK button

Use the joystick to select items in the display and to scroll the map. The joystick is also the OK button; simply press it to select a location on the map or an option displayed on the screen.



(5) BACK button

While using a menu, pressing this button cancels the present operation and returns you to the previously displayed menu or list.

(6) Mode switch

Using the Remote Controller, you can switch to operate either the Navigation System or the DVD/CD. If switching the operation mode, the function of each button on the Remote Controller is also switched (see “How to Listen to a CD” on page 110 and “How to Watch DVD” on page 113).

(7) VOL dial

When you turn the dial downwards, the volume decreases. Turning it upwards increases the volume.

- When the Dipswitch 2 is OFF, volume of the voice guidance of the Navigation System is adjusted.
- When the Dipswitch 2 is ON, the volume of Pioneer Head Unit is adjusted. If the dial is pressed, the volume is reduced to around 1/10th of the volume (ATT function). When pressed again, the volume returns to its previous level.

(8) NAVI button

You press the NAVI button to view the map or return to guidance. Also, when the map is scrolled, pressing this button returns to the display of the map of your surroundings.

(9) MENU button

Pressing the MENU button displays a menu of options.

(10) DETOUR button

Press this button to restart route calculation, such as calculating a detour. If this button is pressed for more than two seconds, you can see the information (passing roads and driving distance, and so on) of the route down which you are currently being guided (see Chapter 4 “Guidance to Your Destination”).

(11) CANCEL ROUTE button

Press this button to cancel the route guidance. When pressed for more than two seconds, the next way point is recognized as already being passed, and a new route calculation starts (see Chapter 4 “Guidance to Your Destination”).

(12) GUIDE button

Press this button if you did not hear the voice guidance properly. If this button is pressed for more than two seconds, you can listen to traffic information (where available.).

(13) Numeric keypad

You use this pad for entering characters or numbers.

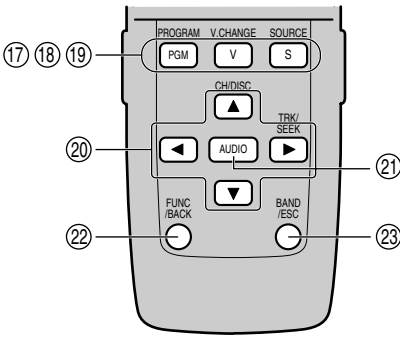
(14) • (AUDIO) button

Use this button when the Navigation System is combined with another manufacturer’s display. This button is used only when the navigation image (RGB image) is output from RCA Video output (yellow) of the Hide-away Unit of this product. (For details, see the installation manual.)

- When combined with CD-TS36, sound is output from the Voice Guidance Speaker with infrared sensor.

(15) DELETE button

Press to delete the character you just entered. If you press this button for more than two seconds, all the characters entered will be deleted.



(16) OK button for numeric keypad

This works in the same way as “OK” on the text palette.

(17) PROGRAM button (for audio operation)

(18) V.CHANGE button (for audio operation)

(19) SOURCE button (for audio operation)

(20) Cross Key / ▲, ▼, ◀, ▶ button (for audio operation)

(21) AUDIO button (for audio operation)

(22) FUNC/BACK button (for audio operation)

(23) BAND/ESC button (for audio operation)

↪ Each button from (17) to (23) has the same function as the ones for Pioneer’s Head Unit, and so you can operate the Head Unit using the Remote Controller. However, some buttons become invalid depending on the combination of the models.

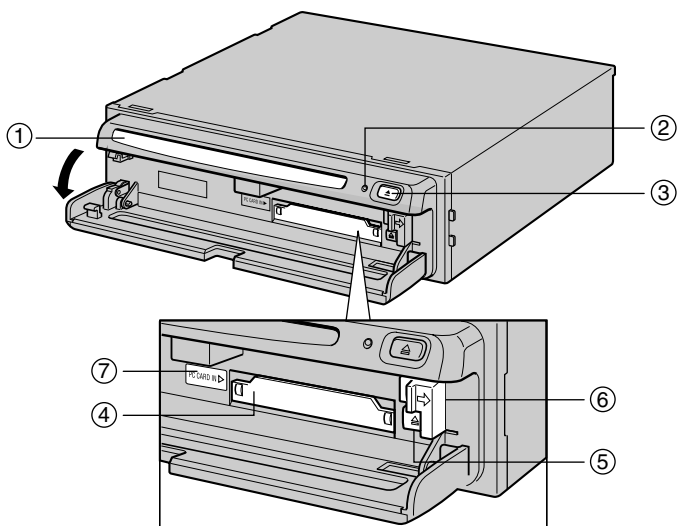
■ Microphone



(1) Microphone

After pressing the TALK button to start voice operation, this microphone hears your commands.

■ Main unit



(1) Disc loading slot

(2) Reset button

If the system goes malfunction, reset it by pressing this recessed button with a ballpoint pen or similar pointed object. (See “Resetting the System” on page 136).

(3) Disc eject button

(4) PC card slot

(5) PC card eject button

Remove the PC card by pressing this button.

(6) PC card lock lever

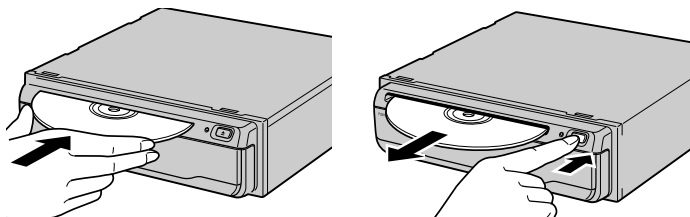
This lever is used when you remove the PC card.

(7) PC card lock lamp

The red light goes on when the PC card is inserted and a proper connection is made.

Setting and removing the disc

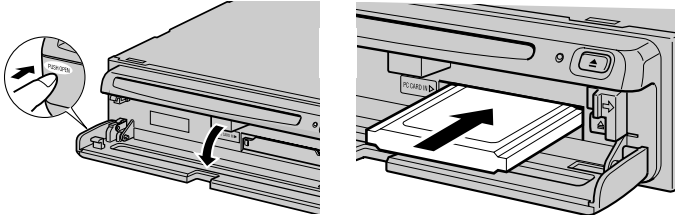
Insert the disc to the disc slot with the label-side up. To remove the disc, press the disc ejection button on the right-hand side of the disc loading slot.



- ⤷ Do not try to use discs other than a disc designed for this system. Please use only the disc specified by Pioneer. (for playing the DVD-video or Audio-CD, see “Before Using” on page 106)
- ⤷ Do not attempt to use discs that is cracked, scratched, bent, or otherwise damaged.
- ⤷ Treat your disc carefully. See “Handling and Care of the Disc” on page 135 for advice on proper handling and use.
- ⤷ After removing the disc from the slot, keep it in the case.

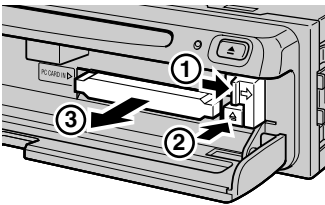
Setting the PC card

Open the cover at the front of the main unit. Hold the PC card label-side up: the arrow shows the direction of insertion. Insert the card firmly until the PC card ejection button pops out. If the main unit power is on, the PC card lock lamp changes from green to red, showing that the PC card is inserted correctly and ready for use.



Removing the PC Card

Open the cover on the front of the main unit. Slide the PC card lock lever to the right (1), and hold it there. Check that the PC card lock lamp has changed to green, and then press the PC card ejection button (2). (Keep sliding the PC card lock lever to the right until the PC card is removed completely.)



Caution

Do not remove the PC card while the PC card lock lamp is red. It may break the main unit of the Navigation System or the PC card.

- ⤷ PC card can be set or removed regardless of the power ON/OFF of the main unit (ON/OFF of the engine).
- ⤷ You can only use a card that conforms to the PCMCIA Type II (5V) standard. If you attempt to use a card complying with a different standard, the card slot may be damaged, or a malfunction may occur.
- ⤷ Do not remove the card while editing the data on the PC card. You may break the main unit of the navigation system, or corrupt the data stored on the PC card.

Setup 3: Installing the Program

The program is installed to the main unit of the Navigation System using the disc provided. When installing the program, you carry out the following operations. When all the setup procedures are completed, the map of your surroundings appears, and you can use the Navigation System.

1. Insert the disc while the car is parked.
↓
2. Select the language used for the Navigation System.
↓
3. Setting the clock.

1 Park your car in a safe place.

Leave the engine on, and make sure that the parking brake is on.

2 Insert the disc to the main unit of the Navigation System.

3 Select “Yes” and click the OK button.

When you start this unit for the first time, the message confirming if you select another language.

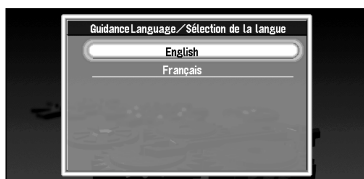
English is the default language of the Navigation System. If desired, you can select another language.

⤷ To keep English, move the joystick down to highlight “No”, and click the OK button. After this, proceed to Step 6.

⤷ When you want to select another language, highlight “Yes”, click the OK button, and proceed to the next step.

4 Select the language from the list.

The list of the languages you can use appears. Move the joystick up or down to highlight the language you want.



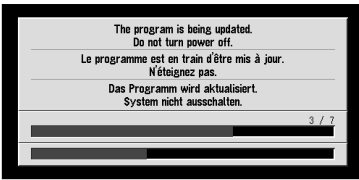
5 Click the OK button.

Installation of the program, in the language you chose, begins. During the installation, the following display appears to show the progress.

When the installation is complete, the opening display appears.

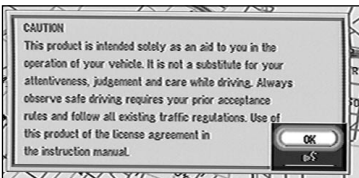
Caution

Once the installation of the program starts, do not stop the engine of your car until the installation is completed.



6 Check the details of the cautionary message and click the OK button.

You can also proceed to the next step by pressing the TALK button.

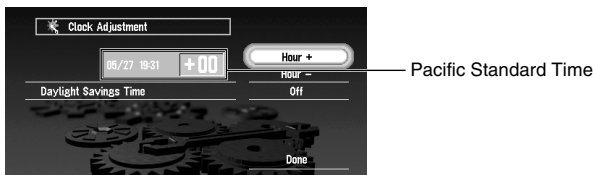


A message asking to set the clock appears.

7 Click the OK button.

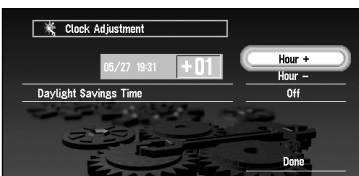
The clock setting display appears.

8 Set the clock.



The time difference between the time originally set in this unit (Pacific Standard Time) and the current location of your car is shown. If necessary, adjust the time difference.

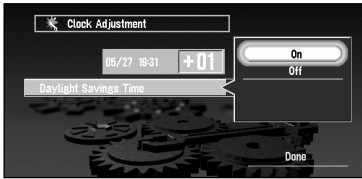
Move the joystick to select "Hour +" or "Hour -" and click the OK button to change the time difference by one hour. Set the time difference between the current location of your car and the Pacific Standard Time.



9 If necessary, set to summer time.

Daylight Saving Time (DST) is on by default. “Off” is shown on the right-hand side of “Daylight Savings Time”.

If DST is in effect, move the joystick to select “Off” and click the OK button. When the list of selectable options (“On” and “Off”) appears, move the joystick to select “On” and click the OK button. The DST setting is then turned On.



10 Select “Done” and click the OK button.



The map of your surroundings appears.

This completes the setup of your Navigation System. Chapter 2 explains the basic operation of your Navigation System.

- To change the language and time later, see Chapter 6 “Customizing Your Navigation System”.

Switching On and Off

Switching On

When the engine of your car is running, the power of the main unit of your Navigation System is turned on. After the opening screen appears for a few seconds, a cautionary message appears. Read this message and click the OK or the TALK button; the map of your surroundings appears, and you can now use the Navigation System.

- ☞ If the disc is not set, the message asking to insert the disc appears. After you set the disc correctly, your Navigation System starts up.

When the password is set

After your Navigation System starts and the cautionary message appears, you are asked to enter the password. Enter your password and select “OK”, and click the OK button. (You cannot enter your password using numeric keypad of the Remote Controller.) The map of your surroundings appears, and you can use your Navigation System.



- ☞ For the details of setting the password, see “Registering a Password” on page 79.

Switching Off

When you turn your car’s engine off, your Navigation System is also switched off.

- ☞ If you have not arrived at the vicinity of your destination, the route set will not be deleted even if you turn the power to your Navigation System off.

Types of Menu

You perform most tasks through using menus. A typical sequence of steps is as follows: “Select a menu, Select a menu item with the joystick, and Click the OK button”. There are two types of menu: the “Main menu” and the “Shortcut menu”.

■ Main menu

With the map displayed, press the MENU button and the Main menu appears. You use this menu for basic operation of your Navigation System.



New Destination

The destination is searched and the route to this destination is set (see “Finding a destination on the map” on page 45).

Address Book

Past destinations, way points, and the list of the registered locations are shown. If you select your destination from this menu, your route is calculated (see Chapters 3 and 5).

Return Home

Set your home as your destination and your route is calculated (see Chapter 3).

Go to ...

Set your favorite location, such as your workplace, as your destination and your route is calculated (see Chapter 3).

Settings

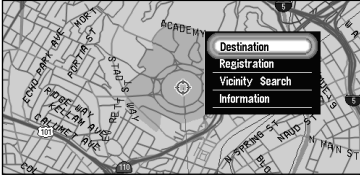
Customize the functions of your Navigation System for your own selections (see Chapters 5 and 6). When using PC card, you use this menu (see Chapter 5).

Information

To get information, such as traffic information along the route, you are travelling (where available), or the condition of the navigation, you use this menu (see Chapter 5).

■ Shortcut menu

While the map is shown, click the OK button to show the Shortcut menu. You can do various tasks, such as route calculation for the location pointed by cross pointer, or registering a location in the Address Book, faster than using the normal menu.



Destination

You select the destination with cross pointer and the route is set (see “Finding a destination on the map” on page 45). When your destination or way point is set with this method, some information on the streets around the cross pointer (or the area of the house number) or POI is picked up.

Registration

Registering the location pointed by cross pointer to Address Book (see Chapter 5).

Vicinity Search

You select a location with cross pointer and POIs (Points Of Interest) nearby are found (see Chapter 3).

Information

You select a location with cross pointer and information about the location appears. (See “Viewing the information of the mark displayed on the map” on page 44.)

- Items that are colored grey cannot be selected: items are greyed depending on the previous operation.

Basic Navigation

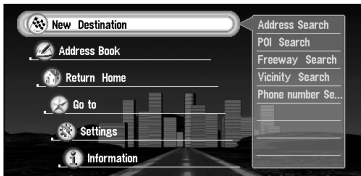
This section describes basic navigation, such as how to select menu items, using setting your destination as an example. There are several methods of setting the destination but, in this example, route calculation by specifying address (Address Search) is explained.

Caution

For safety reasons, you cannot use these functions while your car is in motion. Stop and put the parking brake on before use.

1 Indicate Main menu.

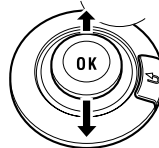
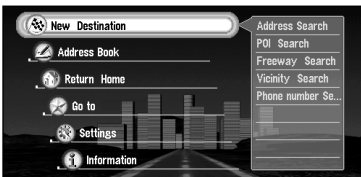
With the map displayed, press the MENU button.



The Main menu appears. Only “New Destination” is highlighted, and it has different color from the other items. This shows that this item is being selected. On the right-hand side of the display, a small list appears. This shows that the item currently being selected is further divided into sub-menus.

2 Select the items you want.

Move the joystick up or down. As you move the joystick, the item being highlighted also changes. When the item you want is highlighted, click the OK button.



In this example, you want to find your destination, so highlight “New Destination” and click the OK button. The menu (submenu) of the items included in “New Destination” appears.

3 Select the method of searching your destination.

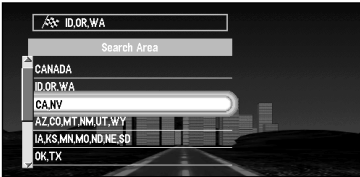
Select “Address Search” and click the OK button.



4 Select the area where your destination is located.

When the destination is in another area, select “Search area” and click the OK button.

When the list of areas appears, select the desired area and click the OK button. (When you search for your destination next time, the Navigation System searches for your destination from the data of the area selected here). For details of the method of selecting “Search area”, see “Specifying the area where you want to search” on page 48.



5 Search the city where your destination is located.

Enter the name of the city using the text palette. To enter the name, you select each character with the joystick and click the OK button.

For example, enter the name of a city where, or near where, you live. If you enter the first few letters, a list of matching place names appears automatically.

- ☞ If a list does not appear, check your spelling and correct as necessary. Enter the name of the city in full and select “OK” on the bottom-right of the display. Click the OK button. If there are no matching cities, try the name of the different city nearby.

How to use text palette

Move the joystick up or down, or left or right, to highlight a letter you want to enter. If you click the OK button, the selected letter appears in the text box. As you enter an one letter, your Navigation System narrows down the possible cities, and the items in the list that appears on the right-hand side of the display change accordingly. Also, any letters you cannot enter (because they do not feature in a known place name) are shown in grey, to help you select and enter the letters faster.



(1) Text box

The letters entered appear here.

(2) Text palette

Letters of the alphabet. Letters you cannot enter are greyed out.

(3) Space ()

You can enter a space.

(4) Delete backward (←)

Deletes the previous character.

(5) All delete (⊗)

All the letters entered are deleted. When the DELETE button of the Remote Control is pressed for more than two seconds, all the letters entered can be deleted as well.

(6) Function button

If you highlight this button, the functions assigned to each button appear in a popup display.

(7) Number of matching candidates

(8) Matching candidates

Items displayed here cannot be selected.

(9) OK

If you select and click the OK button, matching candidates and the time are all displayed in a list.

- ↳ When you go back to the previous display by pressing the BACK button, you may not be able to enter letters. In such a case, delete the letters entered in the text box.

Entering letters using numeric keypad of the Remote Controller

Every time you press the key, the letters assigned to the key are displayed in sequence. If you press different keys while the letter to enter is selected, or if you press the OK button on the bottom-right of the numeric keypad, the selected letter appears in the text box.

6 Select the city name of your destination from the list and click the OK button.

Move the joystick to select the item of your destination from the list. If the location shown in the list can be identified, the map of the location appears on the right-hand side of the list so that you can roughly check the location.



When the list of the items goes over several screens

If the list of the matching city names cannot be displayed within one screen, a scroll bar appears on the left-hand side of the list to show that there are more items. If you move the joystick up or down, the remaining items appear. (If there are many items, you can move the list faster by moving the scale controller up and down.)

If an arrow appears at the left-hand side of the item

If you click the joystick to the left, the map of the location you selected from the list appears. Here, the information of the selected location is displayed by letters at the bottom of the screen. If you click the OK button with this display, the Shortcut menu appears (see “Shortcut menu” on page 33), and you can select the location displayed as your destination, or look at the detailed information.

7 Select the street name where your destination is located.

You select the street name in the same way as for a city name. When the number of matching streets is narrowed down, the list of the matching streets automatically appears. (If the all letters you want to enter are colored grey and you cannot enter, select “OK” and click the “OK” button to show the list.)



8 Select the street from the list and click the OK button.



If the selected street goes across several cities

For example, if the selected street goes across three cities, the list of these cities appears when you click the OK button. Select the location for your destination from the list, click the OK button to proceed to the next step.

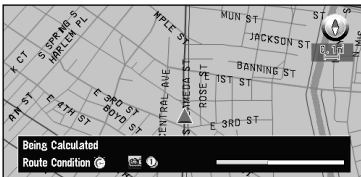
9 Specify the house number.

You select the house numbers in the same way as for a city name. When the input is completed, select “OK” and click the OK button.



10 If you can enter a house number, select the house number from the list, and click the OK button.

Once the location is decided, your Navigation System starts to calculate a route with that location as your destination.



When the route is calculated, the map of your surroundings appears. The street from your current location to your destination turns to green, and the route being set is shown.

When you cannot enter the house number

From the function button at the bottom of the screen, select a method of search and click the OK button.

On this display, you can select the following items:

- Quick Route :** The route is calculated with the well-known point (mostly, it is the middle point of the street selected previously) as your destination.
- Cross Street :** You enter the name of the second street and search for the surrounding area of its intersection with the first street. It is convenient when there is no house number for your destination, or when you cannot enter the house number of the selected street (See “Specifying an Intersection as Your Destination” on page 55).
- View Map :** You can view a map of the location matching to the house number entered. If there is no complete match with the entered house number, you can also display the map of the well-known point on the street, then scroll the map to show the Shortcut menu (see “Shortcut menu” on page 33), then to set the location as your destination.

☞ In “View Map,” if the house number that is not on the selected street is entered, or if there are several sites corresponding to the condition entered, a list of house number range appears. (If you select an item and click the OK button, route calculation starts. If you move the Joystick to the left, a map screen appears.) If you do not enter anything and select “View Map,” a map of a well-known point on the street appears.

- ☞ If you want to delete the route being set, press the CANCEL ROUTE button. When the message confirming the deletion appears, select “Yes (all)”. Click the OK button to delete the route.
- ☞ If you want to return to the map of your surroundings, press the NAVI button.
- ☞ Once searched for, a location is automatically stored in the “Address Book” (see “Editing the Address Book” on page 71).

How to Use the Map

Most of the information provided by your Navigation System can be seen on the map. You need to get to know how the information appears on the map.

■ How to view the map of the current location

The display is like a conventional map, and shows roads of various designations as well as geographical features such as rivers, parks, and forests.

While the menu is displayed, you can switch to the map of your surroundings, by pressing the NAVI button.

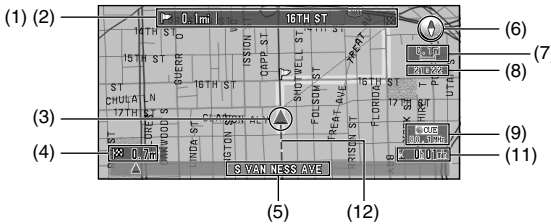
When the route is not yet set, map mode is always displayed, but during the route guidance, you can switch between “Map mode”, “Driver’s view”, “Arrow mode”, and “Side arrow mode” by clicking the OK button.

Caution

In Driver’s view, the speed meter is indicated on the screen, but this will differ from the actual speed of your car. Use the speed meter of your car for confirming the speed.

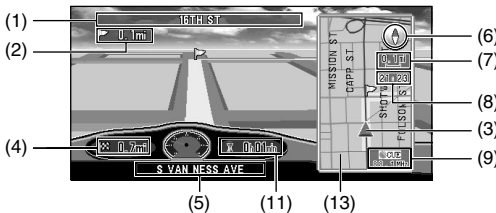
Map mode

The map of your surroundings is shown. Unless the route is set, this mode is always shown.



Driver’s view

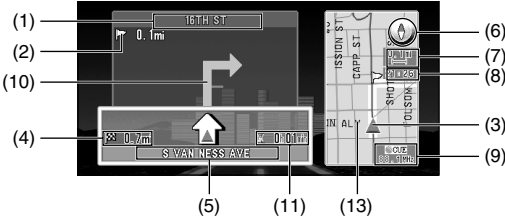
The map from the driver’s viewpoint is shown.



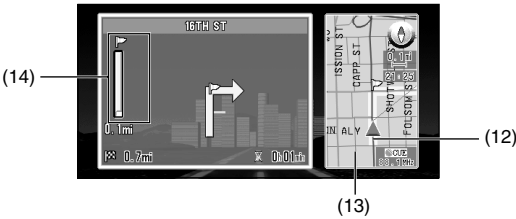
Arrow mode

The direction of travel is shown by a simple arrow. When approaching a guidance point, such as an intersection, the display switches to show the distance and direction to the guidance point.

Normal condition



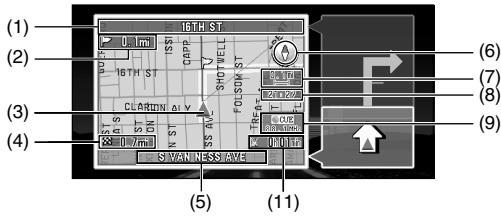
When approaching an intersection



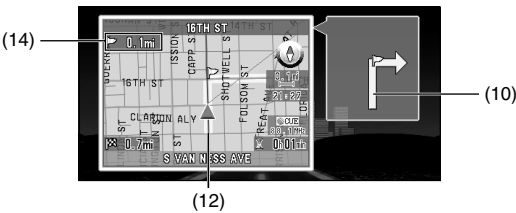
Side arrow mode

The map of your surroundings is shown on the left, and an arrow showing the direction of travel is shown on the right.

Normal condition



When approaching an intersection



Guidance point*

The next turning point is shown by a yellow flag.

Destination*

The checker-flag indicates your destination

(1) Name of the street you drive next.*

(2) Distance to the guidance point*

(3) Current location

The current location of your car. The arrow shows your heading, and the display moves automatically as you drive.

(4) Distance to the destination*

(5) Name of the street you are in

(6) Compass

The red arrow shows North.

(7) Map scale indicator

The figure gives the distance represented by the red bar. In Arrow mode and Driver's view, it shows the scale of the map displayed on the right-hand side of the screen.

(8) Current time

(9) CUE mark and receiving kHz

kHz of CUE this unit is receiving is shown (where available).

(10) Travelling direction*

(11) Estimated time of arrival (or travel time to your destination)*

(12) Tracking mark

The tracking mark shows the route your car has travelled.

(13) Map of your surroundings*

(14) Distance to an intersection*

It is displayed in Arrow mode and Side arrow mode. The green bar gets shorter as your car approaches an intersection.

- Information with the mark (*) appears only when the route is set.
- You can display the current time and estimated time of arrival (or travel time to your destination) on the screen. For the details of setting, see "Travel Time Display" on page 99.
- You can select the method of deleting tracking mark. For the details, see "Tracking Display" on page 98.
- When "Zoom Map of Intersection" (see "Zoom Map of Intersection" on page 97) is set "ON", an enlarged map showing the area around an intersection appears as you approach the intersection (except Driver's view).
- Tracking display shows about 200 km tracking of your car with a white dots. When your car speed is under 5 km/h (3mile/h), the dots is red. When your car speed is more than 5 km/h (3mile/h), but less than 20 km/h (12mile/h), tracking shows in orange dots.

■ Changing the scale of the map

On the top-right of the map display, the scale of the map is shown. If you move the scale controller up or down, you can change the scale of the map through 16 levels:

0.02 mi, 0.05 mi, 0.1 mi, 0.25 mi, 0.5 mi, 0.75 mi, 1 mi, 2.5 mi, 5mi, 10mi, 25mi, 50mi, 100mi, 250mi, 500mi, 1000mi (25m, 50m, 100m, 200m, 500m, 1km, 2km, 5km, 10km, 20km, 50km, 100km, 200km, 500km, 1000km, 2000km). If you keep holding down the scale controller, you can zoom in or out in smaller increments.



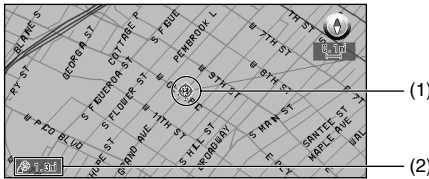
When you want to see smaller streets with a more detailed map



When you want to know a rough position, or seeing wider range

■ Moving the map to the location you want to see

You can move the joystick of the Remote Controller up and down, left and right, or diagonally. If you move the joystick towards the location you want to see, the map moves accordingly. If you press down the joystick while moving the map, you can move the map more quickly. At this time, the cross pointer appears at the center of the screen. Also a line connecting between the current location and cross pointer appears.



(1) Scroll location

The position of cross pointer shows the location selected on the current map.

(2) Distance from the current location

The distance between the location pointed by cross pointer and the current location is shown.

Viewing the information of specified location

You can check the address and other details of the current location or of the location pointed by cross pointer.

- 1 **Click the OK button on the map display.**
The Shortcut menu appears.
- 2 **Select “Information” and click the OK button.**



Information of the current location, or of a specified location, appears. The information shown varies according to the location. Some locations have several items of information. In this case, if you turn the scale controller up or down, other information appears. (There may be no information for that location.)



Types of information :

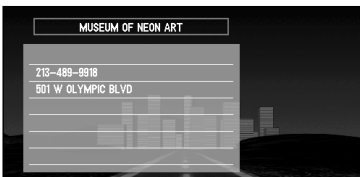
Information of the street

Name of the registered location

Information of the Points Of Interest (POI) displayed on the map (see “Displaying Certain Points Of Interest on the Map” on page 69)

CUE traffic information (see “Using CUE Information” on page 82)

- 3 **Click the OK button.**



More detailed information appears.

- 4 **Press the NAVI button.**
You are returned to the map of your surroundings.

Finding a destination on the map

When you select “Map search” as the search method, or when you select “Destination” in the Shortcut menu, you can specify your destination on the map.

1 Select “Map Search” from the list and click the OK button.

The map display appears.

☞ You can also press the NAVI button to show the map.

2 Place the cross pointer on the place you want to set as your destination. Then click the OK button.

Some information on the streets around the cross pointer (or the area of the house number) is picked up, then information about the specified place appears on the display.

☞ If you display the Shortcut menu, select “Destination” and click the OK button to proceed to Step 3.

3 Switch between multiple items of information by turning the scale controller up or down.

4 Click the OK button.

Route calculation starts.

When you do not know how to use the Navigation System

When you are new to using the Navigation System, it may take you a little time to work what to do next. After a few seconds of inactivity, a help message may appear, which tells you what you can do on the screen. The message disappears when you move the joystick.

When you are using your Navigation System with voice operation, examples of the commands you can say appear on the screen (see Chapter 7).

When you are comfortable using the Navigation System, you can opt that the help messages are not provided. For details, see “Help Menu” on page 99.

Setting a Route to Your Destination





Basic Flow of Route Calculation

Based on the information you know about your destination, your Navigation System searches for your destination on the map, and calculates the route.

Caution

For safety reasons, these functions are not available while your car is in motion. Stop and apply the parking brake before use.

Flow of operation

1. Press the MENU button and display the Main menu.
- 
2. Select “New Destination” from the Main menu.
- 
3. Select the method of searching for your destination.
- 
4. Enter the information about your destination.
- 
5. Your Navigation System sets the route to your destination, and the map of your surroundings appears.

- ⤷ If you press the BACK button during route calculation, the calculation is cancelled and the map display appears.
- ⤷ If you search for the location when the route is already set, after the search, a message asking whether to carry out new route calculation using this location as your destination, or as a way point appears. For the details, see “Adding Way Points to the Current Route” on page 67 and “Cancelling the Route Guidance” on page 66.
- ⤷ During the search of your destination, if you click the joystick to the left while the triangle mark is displayed on the left-hand side of the list, you can check the location being selected on the map.
- ⤷ Some information on traffic regulations by days or time is indicated according to the time when the route calculation is performed. Thus, it may not correspond with a certain traffic regulation when your car actually passes the location. Also, the information of the traffic regulations provided will be for a passenger car, and not for a truck/lorry or other delivery cars. When driving your car, follow the actual traffic regulations.
- ⤷ For the details of route guidance after your destination is searched and the route is set, see Chapter 4.

- By using the Settings menu, you can change the conditions for route calculation. For the details, see Chapter 6 “Number of Routes”, “Fastest/Shortest”, “Avoid Freeway”, “Avoid Ferry”, “Avoid Toll Road” on pages 96 to 96.

■ Specifying the area where you want to search

The information stored in the disc is arranged by area. When your destination is searched, the Navigation System searches within the currently selected area. Therefore, if your destination is in another area, you must specify the area before searching for your destination. (Once the area is selected, the Navigation System searches for your destination in that area, until the area setting is next altered.)

Here, Address Search is given as an example:

- 1 From the Main menu, select “New Destination”, and then select “Address Search”.
- 2 Select “Search area” and click the OK button.



- 3 Select the area you want to search, and click the OK button.

When you are returned to the initial display, proceed to the searching operation.



- When performing “Phone number search”, you do not need to specify the area.

■ Perform the route calculation of the several route options, and select one

By combining several searching conditions, you can get route calculations of six route options to your destination. After route options are calculated, select the one you want.

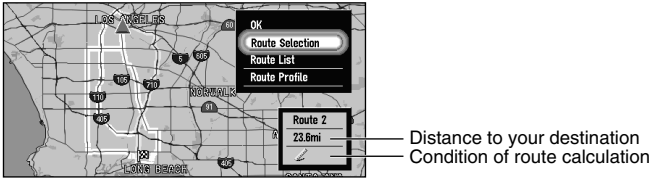
1 Change the setting of “Route Selection” in “Settings” menu.

For the details of the method of changing the setting, see “Modifying the Default Settings” on page 95 and “Number of Routes” on page 96.

2 Search your destination and set the route.

3 Select “Route Selection” and click the OK button.

The next route option appears. Repeat this procedure until the route you want to take appears.



On this display, you can select the following items:

Route Profile : You can view the list of the roads you drive through.

Route List : You can view the list of the conditions for route calculation of all the route options and of the distances to your destination.

About the route condition

Shortest : Calculate a route with the fastest distance to your destination as a priority.

Fastest: Calculate a route with the shortest travel time to your destination as a priority.

Alternative route : A route other than the ones calculated by the above two methods is shown.

Avoid Freeway : Calculate a route that avoids freeway.

When two conditions is mixed as “Shortest” & “Avoid Freeway”, the quickest route to your destination while avoiding a freeway is shown.

Route Profile

Name of the streets
you drive through

Route Profile	
S ALAMEDA ST	4.9mi
ALAMEDA ST	0.5mi
S ALAMEDA ST	0.7mi
FIRESTONE BLVD	0.6mi
LONG BEACH BLVD	3.1mi
N LONG BEACH BLVD	1.1mi
S LONG BEACH BLVD	1.0mi

Driving distance

Route List

Distance to
your destination

Route List		
Route 1	12.7mile	Route Condition
Route 2	12.7mile	Fastest
Route 3	12.8mile	Shortest
Route 4	12.7mile	Alternate Route
Route 5	12.7mile	Avoid Freeway
Route 6	13.4mile	

Conditions of
route calculation

➤ To return to the initial display from the “Route Profile” display or the “Route List” display, press the BACK button.

4 Select “OK” and click the OK button.

The route you selected is accepted, and the map of your surroundings appears. When you start driving, the route guidance begins.

- If the above operations are not done within 30 seconds after the route calculation is completed and you have started your car, the first route is automatically chosen.
- It may take some time until a route profile is shown after a route calculation. In addition, when a long distance route is calculated, your Navigation System may not be able to list all the roads. (In this case, the remaining roads will be shown in the list as you drive on.)

Route Calculation to Your Home Location or to Your Favorite Location

If your home location is registered, the route home can be calculated, by a single press of the button from the Main menu. Also, you can register one location, such as your workplace, as your favorite location, and the route is calculated in a similar way.

- 1 Select “Return Home” or “Go to <favorite location name>” from the Main menu, and click the OK button.**

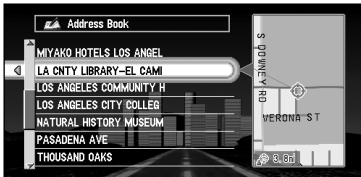
Route calculation starts.

- ☞ For the details of the method of registering the location, see “Registering Your Home and Your Favorite Location” on page 76. Also, you can change the registered information later.
- ☞ When your favorite location is not registered, “Go to ...” is displayed on menu. Once you register the location, it changes to “Go to < favorite location name>.”

Selecting your Destination from the Address Book

Destinations and way points you have searched before or registered locations are stored in the “Address Book”. By simply selecting your destination from the Address Book menu, route calculation to the location can be done quickly.

- 1 Select “Address Book” on the Main menu, and click the OK button.**
The Address Book menu appears.
- 2 Select your destination and click the OK button.**



Route calculation starts.

- You can edit information, such as names, about the locations stored in Address Book, or delete them. For details, see “Editing the Address Book” on page 71.

Searching for your Destination by Address

You can specify the address of your destination. The route to a specific intersection or street, or for the central part of the city, can be also calculated. (For the details of the operation, see “Basic Operation” on page 31.)

- 1 From the Main menu, select “New Destination” and then select “Address Search”. Click the OK button.
- 2 Enter the city name.



You can select the following items:

- City unknown :** Select when you do not know the city names of your destination. Proceed to the step, “Having selected “City unknown” on the display of entering city name” explained below.
- City History :** You can view the list of the cities you have searched in the past.
- City Vicinity :** You can view the list of the cities near the current location.

☞ If necessary, change the specified area. For the details, see “Specifying the area where you want to search” on page 48.

- 3 Select the city you want from the list, and click the OK button.
- 4 Enter the street name.

For example, for “West Higgins Road”, you can just enter the part of the name, such as “Higgins”.



You can select the following item:

City Center : The central part of the city selected becomes your destination when starting route calculation. Select the location you want to set as your destination, and click the OK button to start the route calculation.

- 5 Select the street from the list and click the OK button.

If there are several streets with the same name, the list of areas that the specified streets go through may appear. In this case, select the area where your destination is located, and click the OK button to proceed to the next step.

6 Enter house number and select “OK”.

If you enter the house number and click the OK button, route calculation starts.

If there are several locations corresponding to the entered house number, or there is no house number in that location, a list of house number range appears. In this case, select the range you want to set as your destination, and click the OK button to start the route calculation.



On this display, you can select the following items:

- Quick Route :** The route is calculated with the well-known point (mostly, it is the middle point of the street selected previously) as your destination.
- Cross Street :** You enter the name of the second street and search for the surrounding area of its intersection with the first street. It is convenient when there is no house number for your destination, or when you cannot enter the house number of the selected street (See “Specifying an Intersection as Your Destination” explained below.)
- View Map :** You can view a map of the location matching to the house number entered. If there is no complete match with the entered house number, you can also display the map of the well-known point on the street, then scroll the map to show the Shortcut menu (see “Shortcut menu” on page 33), then to set the location as your destination.

↳ In “View Map,” if the house number that is not on the selected street is entered, or if there are several sites corresponding to the condition entered, a list of house number range appears. (If you select an item and click the OK button, route calculation starts. If you move the Joystick to the left, a map screen appears.) If you do not enter anything and select “View Map,” a map of a well-known point on the street appears.

7 Click the OK button.

Route calculation starts.

Having selected “City unknown” on the display of entering city name

Based on the information of streets and house numbers, the range of your destination is narrowed.

- If there are several streets with the same name, the list of the cities where the streets run is shown.
- If the selected street goes across several cities, the list for selecting the area in which your destination is located is shown.

Specifying an Intersection as Your Destination

By selecting two streets, route calculation for the intersection can be performed. Its basic operation is the same as “Searching for your Destination by Address” explained above.

- 1 Select “New Destination” from the Main menu and then select “Address Search”. Click the OK button.**

The display for entering a city name appears.

☞ If necessary, change the specified area. For details, see “Specifying the area where you want to search” above.

- 2 Enter the city name.**

The list of the cities matching the name entered appears.

- 3 Select the city for your destination, and click the OK button.**

The display for entering the street name appears.

- 4 Enter the first street name, and click the OK button.**

The list of the streets matching the name entered appears.

- 5 Select the street and click the OK button.**

The display for entering house number appears.

- 6 Select “Cross Street” and click the OK button.**

The display for entering the name of the second street appears.

- 7 Enter the second street name.**

The list of the matching streets appears.

- 8 Select the street and click the OK button.**

If there are points where selected streets cross, the list of those points appears.

If there are no intersections in the selected city, the message, asking to select other streets appears. Select “Yes” and click the OK button, and you return to Step 7. (If you select “No”, the search is cancelled.)

- 9 Select the surrounding area of the intersection for your destination, and click the OK button.**

Route calculation starts.

Finding Your Destination by Selecting the Type of Facility

Information about various facilities (Points Of Interest - POI), such as stations, amusement parks or restaurants is available. By selecting the category, you can search for a Point Of Interest.

■ Searching for Points of Interest (POI)

- 1 Select “New Destination” on the Main menu, and then select “POI search”. Click the OK button.**

The display for entering a city name appears.

➤ If necessary, change the specified area. For the details, see “Specifying the area where you want to search” on page 48.

- 2 Enter the city name.**

The list of cities appears.

On this display, you can select the following items.

City unknown : Select when you do not know the city name, or you want to search without specifying the area where the destination is located. Proceed to Step 4.

City History : You can view the list of the cities you have searched in the past.

City in Vicinity : You can view the list of the cities near the current location.

- 3 Select the city for your destination, and click the OK button.**

The list of POI categories appears.

- 4 Select the category and click the OK button.**

POI are divided into several categories. Select one and click the OK button to proceed to the next step.



A list of more detailed subcategories appears if you click the OK button.

➤ If you do not know which category the POI you want to search is in, select “All Category”.

➤ If you select a city in Step 3, only the POI existing in the area is displayed in the list.

- 5 Select the subcategory and click the OK button.**

The display for entering the name of the POI appears.

6 Enter the name of POI and select “OK”. Click the OK button.



☞ If you select “Show All” and click the OK button, the list of all the facilities included in the category you selected appears.

7 Select POI for your destination, and click the OK button.



Route calculation starts if you click the OK button.

☞ If the selected Point Of Interest is a chain store that has many branches, a list of matching POI appears. Select a POI from the list and click the OK button.

■ Finding POI in your surroundings or around the cross pointer

You can search for Points Of Interest in your surroundings or around the cross pointer on the map. Use it to find somewhere to visit during a journey.

1 Select “New Destination” from the Main menu, and then select “Vicinity Search”. Click the OK button.

The list of Points Of Interest categories appears.

2 Select the category and click the OK button.

☞ If you want to search with more detailed categories, move the joystick to the left. The list of subcategories appears. Select the subcategory you want and click the OK button.

3 Select POI and click the OK button.

Names of POI and their distance from your current location appear. They are listed in nearest-to-furthest order.



Route calculation starts if you click the OK button.

☞ When the calculation is completed, POI around the specified location are shown on a map.

☞ This function can also be used from the Shortcut menu (see “Shortcut menu” on page 33).

Searching for Your Destination by Specifying the Telephone Number

If you know the telephone number of your destination, you can quickly search for your destination by specifying the telephone number.

- 1 **Select “New Destination” from Main menu, and select “Phone Number Search”. Click the OK button.**
- 2 **Enter the telephone number and select “OK” and click the OK button.**



The list of the telephone numbers matching the numbers you entered appears. If you enter your favorite number completely a list of matching place names appears automatically.

- If you cannot find the matching telephone numbers, a message confirming whether to enter the telephone number again, appears. Select “Yes” and click the OK button; then enter the telephone number again. (If you select “No”, the search is canceled.)
- 3 **Select your destination and click the OK button.**
 - If you move the joystick to the left, the map of the area corresponding to the selected telephone number appears.
If you click the OK button, route calculation starts.
 - When entering the telephone number, enter it in the same way as if you were dialing it. You do not need to enter spaces or hyphens (-). For example, even if the telephone number is XXX-XXX-XXXX, you enter XXXXXXXXXX. Also, you do not need to enter country code at the beginning of the telephone number.

Setting an Entrance or Exit of a Freeway as Your Destination

You can set the entrance or exit of freeway as your destination.

- 1 Select “New Destination” from the Main menu, and then select “Freeway Search”. Click the OK button.**

The display for entering the name of the freeway appears.

☞ If necessary, change the area setting. For the details, see “Specifying the area where you want to search” on page 48.

- 2 Enter the name of freeway and select “OK”. Then click the OK button.**

The list of the freeways matching the name appears.

- 3 Select the freeway and click the OK button.**

The display for selecting your destination to the entrance or to the exit of the freeway appears.

- 4 Choose “Entrance” or “Exit” and click the OK button.**

The list of entrances to, or exits from, the selected freeway appears.

- 5 Select your destination and click the OK button.**

Route calculation starts.

Guidance to Your Destination

Route Guidance by Your Navigation System

After setting the route, once you start your car, route guidance by display and voice begins. When you arrive at your destination, a message indicating the completion of route guidance appears, and the normal map display returns.

■ Route guidance by display and voice

Once the route to your destination is set, the map of your surroundings automatically appears, and route guidance starts. On the map, a bright green line, extending from the symbol that denotes your car, shows the route.

Information guided by voice

Your Navigation System guides the following information with the timing adjusted to the speed of your car:

- Distance to the next turning point
 - Travelling direction
 - Road number of the freeway
 - Way point
 - Your destination
- ☞ If you did not hear the voice guidance properly, press the GUIDE button on the Remote Controller to listen to it again.

Display during the route guidance

There are four types of displays available during the route guidance: “Map mode”, “Driver’s view”, “Arrow mode” and “Side arrow mode”. You can switch the view by clicking the OK button; the display cycles through the modes: “Map mode” → “Driver’s view” → “Arrow mode” → “Side arrow mode” and back to “Map mode”.

- ☞ For the details of viewing the display, see “How to Use the Map” on page 40.
- ☞ When you approach an intersection, the display automatically switches to an enlarged map of the intersection to help you drive through it. You can change the setting so that this enlarged map does not appear. For details, see “Zoom Map of Intersection” on page 97. (If set to Driver’s view, the display does not switch to an enlarged map of the intersection.)

If you stray from the route

If, for any reason, you stray from the suggested route, you can automatically search the route to get back on track. This function is called “Auto Reroute”, and you can set it On or Off in the Settings menu. For details, see Chapter 6.

- ☞ If “Auto Reroute” is set “Off” and the display is in mode except “Map mode”, when you stray from the route, the display automatically switches to “Map mode” and a map of your surroundings appears. When you return to the suggested route, the display returns to each mode, and route guidance restarts.
- ☞ If the new route requires you to travel in the opposite direction to your current heading, guidance informing you that you need to turn around to get back to the route is displayed.
- ☞ If you stray from the route being guided, and enter a new street not recorded in the disc, the Navigation System automatically switches to “Map mode”.
- ☞ On some of the streets you are driving, “Auto Reroute” may not work, see “Route Setting Information” on page 143.

If you stop during the route guidance

If you stop at a gas station, or a restaurant during the route guidance, your Navigation System remembers your destination and route information. When you start your car engine again, the route guidance resumes from your current location.

If you parked off the set route, the route guidance resumes when you return to the set route. Also the estimated time of arrival or travel time to your destination reappears when you return to the set route.

■ *When receiving traffic information ahead on the set route*

This device periodically checks the traffic information on the set route. When traffic information is received, the message appears on the display and is spoken by the voice guidance. Follow the instructions, and select the operation, such as searching detour. You can also check the reception of traffic information manually.

Receiving traffic information using CUE is a pay service. (For details, see “Using CUE Information” on page 82 and “About traffic information” on page 144.)

When receiving traffic information

For example, the message “There is <event> on the route within XX mile. Do you want to reroute?” appears.

On this display, you can select the following items:

Yes: The route is recalculated taking the traffic jam into account.

No: The message disappears, and the map display reappears.

- ☞ You can also operate the Navigation System by speech. For details of voice operation, see Chapter 7.
- ☞ When new traffic information arrives, the message “Traffic information has just been updated” appears. If desired, check the new information. For details of how to do that, see “Confirming traffic information relevant to the current route” on page 82.
- ☞ After the message just described appears, if you do not check the new information within 10 seconds, the message disappears. Check a new message if necessary.
- ☞ You can set whether you want the message asking you if you want your Navigation System to search for a detour to appear. For details, see “Traffic Reroute Alert” on page 100.

When receiving an alert

When receiving an alert, the message “An Alert message has just arrived. Do you want to check message?” appears.

On this display, you can select the following items:

Yes : Detailed information appears.

No : The message disappears, and the map display reappears.

When confirming no traffic information manually

If you press the GUIDE button on the Remote Controller for more than three seconds, you can check traffic information about your route. If there is no traffic information about your route, the message informing you that no traffic information has been received is shown. In this case, the message disappears when you click the OK button.

Checking the Suggested Route

You can check information about the route between your current location and your destination.

- 1 Press the **DETOUR** button on the Remote Controller for over two seconds.
- 2 Check the contents on the display.

In Route Profile display, the names of the streets you drive through, and the driving distance of each street can be checked in order.



The screenshot shows a 'Route Profile' window with a list of streets and their corresponding driving distances. The streets listed are S ALAMEDA ST, ALAMEDA ST, S ALAMEDA ST, FIRESTONE BLVD, LONG BEACH BLVD, N LONG BEACH BLVD, and S LONG BEACH BLVD. The driving distances are 4.9mi, 0.6mi, 0.7mi, 0.6mi, 3.1mi, 1.1mi, and 1.0mi respectively. A label 'Name of the streets you drive through' points to the street names, and a label 'Driving distance' points to the distance values.

Name of the streets you drive through	Driving distance
S ALAMEDA ST	4.9mi
ALAMEDA ST	0.6mi
S ALAMEDA ST	0.7mi
FIRESTONE BLVD	0.6mi
LONG BEACH BLVD	3.1mi
N LONG BEACH BLVD	1.1mi
S LONG BEACH BLVD	1.0mi

- 3 Press the **NAVI** button.
The map of your surroundings reappears.

■ Checking the Suggested Route from the Information menu

You can also check the information about the route from the Information menu.

- 1 Select **“Information”** from the Main menu and select **“Route Profile”**. Click the **OK** button.
- 2 Check the contents on the display.
- 3 Press the **NAVI** button.

Recalculating the Route to Your Destination

You can recalculate the route to avoid the traffic jams or road works ahead. You can set the length of the area, and avoid just that area, or you can even search a new route from the current location to your destination. (On the map screen during route guidance, try the following operations.)

- 1 Press the **DETOUR** button on the Remote Controller.
- 2 Select the distance from the list, and click the **OK** button.



On this display, you can select the following items:

- 0 mi/km :** The route from the current position to your destination is recalculated.
- The distance of the detour : (1-50 mi/km)** The route is recalculated, avoiding the area the specified distance ahead of your current position.

Route calculation starts if you click the **OK** button.

- Distance of detour can be selected from 1 / 3 / 5 / 10 / 30 / 50 miles (1 / 2 / 5 / 10 / 20 / 50 kilometres). For details of switching the display between "km" and "mi"(miles), see "KM/ Mile Setting" on page 97.
- Based on the traffic information received from CUE, you can set whether to automatically search for a route avoiding the traffic jams. For details, see "Avoid Traffic on Route" on page 100.

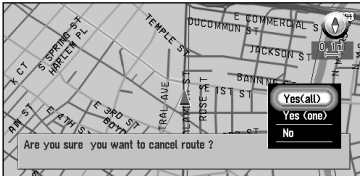
Canceling the Route Guidance

If you no longer need to go to your destination, or you want to set another location as your destination, carry out the following operations:

■ Delete the current route, and cancel the route guidance

If you no longer need route guidance, delete the current route, and cancel the route guidance.

- 1 Press the CANCEL ROUTE button on the Remote Controller.**
The message confirming whether to cancel the current route appears.
- 2 Select “Yes (all)” and click the OK button.**



The current route is deleted, and the map of your surroundings reappears. On this screen, you can also select the following items:

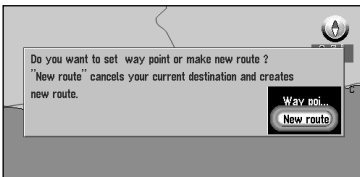
Yes (one) : Route is recalculated by canceling the first way point.

No : Route will not be cancelled.

■ Changing your destination

If you want to change your destination during the route guidance, search the new destination, and set the route.

- 1 From Main menu, select “New Destination” and click the OK button.**
- 2 Search for the new destination.**
When the location search is completed, a message appears asking whether the location is your destination, or way point.
- 3 Select “New route” and click the OK button.**



The route currently set is deleted, and a new route is calculated. If you do not want to delete the route, press the **BACK** button to return to the previous screen.

↳ When you delete the route, its way points are also deleted.

Adding Way Points to the Current Route

You can select way points (locations you want to visit on the way to your destination) and you can recalculate the route to pass this location.

■ Adding a way point

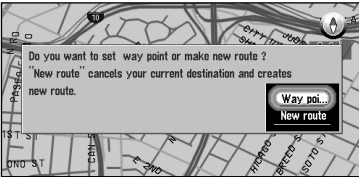
You can set up to five way points. This is achieved as follows :

1 Specify the location you want to visit.

You specify a way point in the same way as you specifying a destination (see Chapter 3). You can also scroll the map to display the Shortcut menu (see “Shortcut menu” on page 33), and use the location cross pointer to set a way point.

When the location is found, a message appears asking whether you want to set this location as your destination, or as a way point.

2 Select “Way point” and click the OK button.



A list giving your currently set destination and its way points appears.

3 Confirm the contents of the list, and select “Done”. Click the OK button.



Route calculation with the specified location as a way point starts if you click the OK button.

On this display, you can select the following items:

Add : You can add more way points. Repeat the procedure from Step 2 above (you can add up to five way points).

☞ If you select “Map Search”, you can specify the location to register by showing a map.

Delete : You can delete way points from the list.

Sort : You can sort your destination and way points in the order of the nearest (distance in a straight line) from the current location.

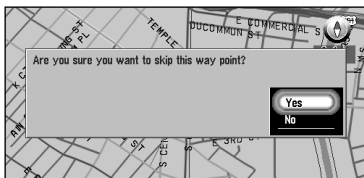
■ **Skipping a way point**

You can opt for the next way point to be skipped, and the new route to be calculated accordingly.

- 1 **Press the CANCEL ROUTE button on the Remote Controller for more than two seconds.**

A message asking whether you want to skip the next way point appears.

- 2 **Select “Yes” and click the OK button.**



A new route to your destination through all the remaining way points, except for the skipped way point, is calculated.

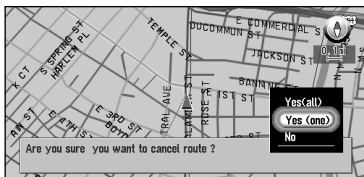
■ **Deleting a way point from the route**

If you no longer need to pass a way point on the set route, the way point can be deleted from the list of way points, and the route can be recalculated.

- 1 **Press the CANCEL ROUTE button on the Remote Controller.**

A message asking whether you want to cancel the route appears.

- 2 **Select “Yes (one)” and click the OK button.**



The list of way points currently set appears.

- 3 **Select the way point you want to delete and click the OK button.**



- 4 **Select “Delete” and click the OK button.**

You can select the following item:

Sort : You can sort your destination and way points in the order of the nearest (distance in a straight line) from the current location.

↻ If you want to delete other way points, repeat Steps 3 and 4 above.

- 5 **Select “Done” and click the OK button.**

A new route to your destination way the remaining way points is calculated.

Displaying Certain Points Of Interest on the Map

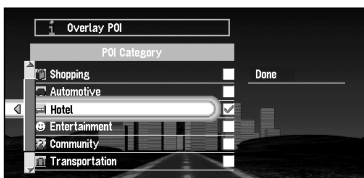
Selected Points Of Interest (POI) in a certain category can be shown on the map, and you can check the location on the display while driving.

- 1 **Select “Information” on Main menu, and then select “Overlay POI”. Click the OK button.**

The list of POI categories appears.

- 2 **Select the category and click the OK button.**

The selected item is checked. If you want to register other categories, repeat this step.



- 2 **If you want to search with more detailed categories, move the joystick left to display the list of subcategories. If you select the sub-category you want to show on the map and click the OK button, a check mark appears on the right hand side of the selected sub-category. Select “Done” and click the OK button to return to the list of POI category.**

- 3 **When you have finished selecting categories, select “Done” and click the OK button.** POIs in the selected category appear on the map.

- 2 **If you want to set a POI as your destination, point to the location with cross pointer, and click the OK button. Then select “Destination” from the Shortcut menu. (see “Shortcut menu” on page 33). Information around the cross pointer appears at the bottom of the screen. Use the scale controller to switch the items, and show the information of the selected POI. When this is done, the POI mark on the map is framed by a flashing red square. If you press the OK button, the route to this POI is calculated.**

Utilizing Various Information

Editing the Address Book

The Address Book stores information about the following types of location. You can edit the contents of the Address Book.

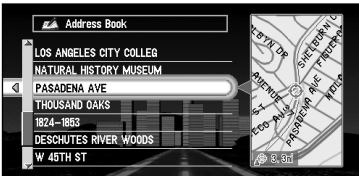
- **Last Destination** - the destination whose route was set most recently.
- **Destination History** - destinations and way points you have searched in the past.
- **Registered Locations** - a manually registered location, such as your home, your favorite location, or the location whose information was edited, such as renaming.

■ Registering a previous location in the Address Book

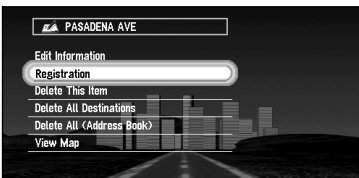
Once searched, destinations or way points are automatically memorized and stored in the Address Book as Destination History. When the number of locations exceeds 100, the oldest location is overwritten automatically. Therefore, to ensure that a particular location is kept in the Address Book, you must register it manually as Registered Locations.

Information edited as described in “Editing a location’s information” below is also automatically registered in the Address Book. Once the location is registered, you can set the route to this location by voice operation.

- 1 Select “Address Book” in the Main menu and click the OK button.
- 2 Select the location you want to register in the Address Book and move the joystick to the left.

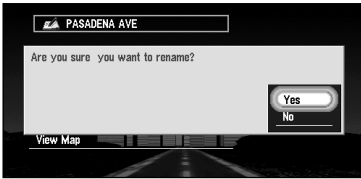


- 3 Select “Registration” and click the OK button.



A message asks whether you want to rename the location.

4 Select “Yes” and click the OK button.



Alternative option:

No : If you do not need to rename, select “No”. The name of the location registered in the Address Book is unchanged, and the Address Book menu appears.

5 Enter a new name; select “OK” and click the OK button.

The name of the current location appears in the text box. Delete the current name, and type a new name between 6 and 23 characters long. (For the details of entering characters, see “How to use text palette” on page 36.)



When you click the OK button, a message confirming the new name appears, and a voice message confirming the pronunciation of the name is played.

6 If the pronunciation is correct, select “Yes” and click the OK button.



The details you set are registered, and the Address Book menu appears. On the map, a pin mark appears at the registered location. (You can change this mark.)

On this display, you can select following options:

No : Select to return to the display for entering characters.

Repeat : You can reconfirm the pronunciation of the name you entered.

- In the Address Book, you can register up to 98 locations, except your home and your favorite location.
- You can also store locations registered in the Address Book on a PC card. see “Storing the data of registered locations in the PC card” on page 87.

■ Editing a location's information

Select a location in the Address Book menu and move the joystick to the left: the Address Book Operate menu appears. If you edit the information of the locations stored in Last Destination or Destination History, it is registered in Address Book as Registered Location. To edit the information about the location:

- 1 **Select “Address Book” in the Main menu and click the OK button.**
The Address Book menu appears.
- 2 **Select the location to edit the information and move the joystick to the left.**
- 3 **Select “Edit Information” and click the OK button.**



Click the OK button, and the Address Information menu appears. Refer to the item corresponding to the subsequent operation. After finishing the operation, the display shown in Step 2 appears. You can continue to edit other information items if necessary.



1. Name

The name can be used as a command for voice operation.

2. Address

The address is registered when the search was made for the first time. Not editable.

3. Phone number

4. Pictograph

The symbol displayed on the map.

5. Sound

If you select sound in the menu, an alert sounds as you approach 500m radius from the location.

➤ Apart from the Address, these items can be edited freely.

Changing a name

- 1 **Select “Name Edit” and click the OK button.**

Refer to Step 5 in “Registering a previous location in the Address Book” above for the next steps.

➤ You cannot change the name of your home.

Entering or changing a phone number

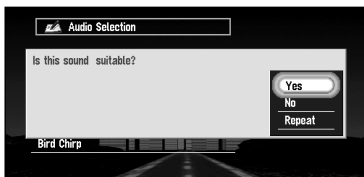
- 1 Select “Phone Number Edit” and click the OK button.
- 2 Enter a phone number; select “OK” and click the OK button.
The Address Information menu appears.
 - To change a registered phone number, delete the existing number and then enter a new one.
 - You can enter a telephone number of up to 24 digits.

Selecting a pictograph to appear on the map

- 1 Select “Image Selection” and click the OK button.
- 2 Select the Pictograph; select “Done”, and click the OK button.
The Address Information menu appears.
 - You cannot change the mark of your home or of your favorite location.

Selecting sound

- 1 Select “Audio Selection” and click the OK button.
- 2 After selecting the sound, select “Done” and click the OK button.
After the selected sound is played, a message asks whether you want to set it.
- 3 Select “Yes” and click the OK button.



The Address Information menu appears.

Alternative option:

Repeat : You can hear the selected sound again.

No : You can select another sound by going back to Step 2.

■Deleting the data in the Address Book

You can delete items contained in the Address Book. You can also delete all the data at once.

- 1 In the Address Book menu, select the location to delete and move the joystick to the left.
- 2 Select the deletion method.



A message confirming deletion appears, if you click the OK button.

On this display, you can select the following options:

- Delete this item :** Delete the location selected in Step 1.
- Delete all Destinations :** All the items stored in Last Destination and Destination History are deleted.
- Delete all (Address book) :** Delete all the data in the Address Book.

3 Select “Yes” and click the OK button.

The data you selected is deleted, and the Address Book menu appears.

Alternative option:

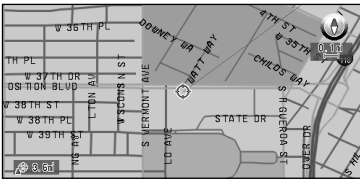
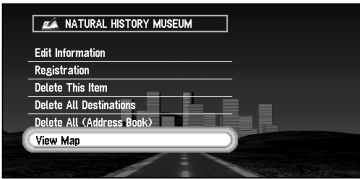
No : The display shown in Step 2 appears.

⤷ Because deleted data cannot be restored, take extra care not to select “Delete all Destinations” and “Delete all (Address book)” by mistake.

■ **Confirming the location contained in the Address Book on the map**

You can select a location in the Address Book and display its surroundings on the map.

- 1 Select the location to edit in the Address Book menu and move the joystick to the left.**
- 2 Select “View Map” and click the OK button.**



The map of the selected area and its surroundings appears.

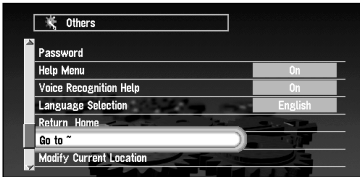
Registering Your Home and Your Favorite Location

By registering your home and your favorite location, you can easily calculate the route by single press of the button from the Main menu. You might find it useful to register your workplace or a relative's home as your favorite location.

■ Registering a location

Before you can search for a route home or to your favorite location, you must first register the location. Registering your favorite location for the first time is described here. You can change the registered information later.

- 1 **Select “Settings” in the Main menu, then select “Others”, and “Go to ~”. Click the OK button.**



You can select a method of location search on the display.

➤ When registering your home location, select “Return Home” and click the OK button.

- 2 **Search for a location and display a map.**

The search method is the same as that for your destination (see Chapter 3).

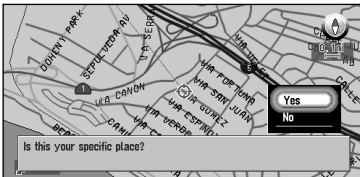
➤ If you select “Map Search”, you can specify the location to register by showing a map.

- 3 **Point the cross pointer to the location you want to register and click the OK button.**

A message “Is this your specific place?” appears.

➤ If some items around the cross pointer is picked up, you can switch between multiple items by turning the scale controller up or down. After selecting the item, click the OK button.

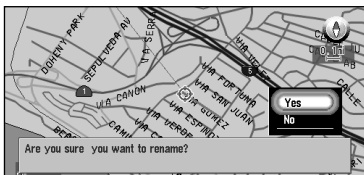
- 4 **Select “OK” and click the OK button.**



A message confirming the name of the location appears. (However, you cannot change the name of your home.)

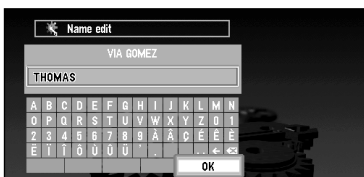
➤ If the location is your home, click the OK button to register the designated location as your home, and the Others menu appears.

5 Select “Yes” and click the OK button.



- ☞ If renaming is not necessary, at this step, select “No” and click the OK button. The location is registered, and the Others menu appears.

6 After entering a new name, select “OK” and click the OK button.



A message confirming the entered name appears, and a voice message confirming the pronunciation is played.

7 If the pronunciation is correct, select “Yes” and click the OK button.



A specific place is registered as your favorite location, and the Others menu appears. Switch to Main menu, an item “Go to . . .” is changed to the item “Go to <favorite location name>”.

Afterwards, you can set a route by selecting this item and clicking the OK button.

- ☞ During voice operation, you can get a route calculated by saying the entered name. For the details of voice operation, see Chapter 7.

■ Changing or deleting your home or your favorite location

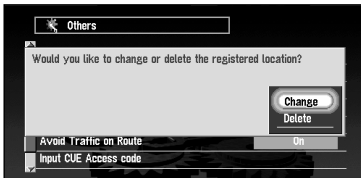
Changing your favorite location is described next.

- 1 Select “Settings” in the Main menu, then select “Others” and “Go to <favorite location name>”. Click the OK button.

If you click the OK button, a message confirming that you want to change a registered location appears.

➡ To change your home location, select “Return Home” and click the OK button.

- 2 Select “Change” and click the OK button.



A display for selecting the search method appears. See “Registering a location” above for the next steps.

Alternative option:

- Delete :** Select “Delete” to delete your favorite/home location. A message asking you to confirm the deletion appears, and then select “Yes” and click the OK button. Your favorite location is deleted, and the Others menu appears.

Registering a Password

If you register a password, only those who know the password can use your Navigation System.

- 1 **Select “Settings” in the Main menu, then select “Others” and “Password”. Click the OK button.**

- 2 **Enter a password.**

Carefully enter each character. A password must be between 6 and 24 characters (alphabetic or numeric).



- 3 **Select “OK” and click the OK button.**

A message confirming the password appears, and a voice message confirming the pronunciation is played.

- 4 **If the pronunciation is correct, select “Yes” and click the OK button.**



The entered password is set, and the Others menu appears.

When your Navigation System is activated, a display for entering your password appears. (see “Switching On and Off” on page 31.)

- ☞ If you want to change your password, at first enter the password that is currently set. (You cannot enter using the numeric keypad.) When the display for entering your password appears again, enter the new password.
- ☞ Once the password is registered, you can use the voice operation for the Navigation System to recognize the password.
- ☞ If you change the language used, the set password is cleared. If desired, set the password again.
- ☞ In order not to forget your registered password, write it down on the sheet at the back of this manual, and remove it and store in a safe place. If you forget your password, consult the shop or your dealer.

Setting Areas to Avoid

If you register Areas to Avoid, such as crowded intersections or congested areas, routes can be calculated that avoid those areas. Areas to Avoid can be set from the Settings menu.

Caution

If you register or delete an Area to Avoid after setting a route, the contents of route guidance may be changed due to activation of Auto Reroute function.

■ Registering an Area to Avoid

This section describes a way of registering an Area to Avoid for the first time. You can register up to five Areas to Avoid.

- 1 **Select “Settings” in the Main menu, then select “Route Guidance” and “Designate areas to avoid”. Click the OK button.**

The list of Areas to Avoid appears.

- 2 **Select one of the items shown in “New Area- . . .” and click the OK button.**

When registering for the first time, any item on the list is shown as “New Area - (number in range 1 to 5)”.



A message to specify a search method for a location appears.

- If you register an Area to Avoid after setting a route, the message asks whether you want to recalculate the current route. Select “Yes”, click the OK button, and proceed to the next step.

- 3 **Search for a location for registration and display a map.**

The search method is the same as that of searching for your destination (see Chapter 3). Once a search is complete, a map with the specified location at its center appears.

- If you select “Map Search”, you can specify the location to register by showing a map.

- 4 **Move the scale controller to set the size of the Area to Avoid.**

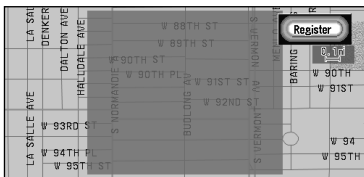
The larger the map, the more detailed Area to Avoid can be specified. The smaller the map, the wider the area can be specified.

The maximum size of an Area to Avoid is 3.4 square miles (1 square kilometer).

- When setting the Area to Avoid, set the scale of the map to between 0.02 mile and 0.75 mile. With other scale ranges, you cannot set the Area to Avoid.

5 After specifying an Area to Avoid, click the OK button.

The Area to Avoid is enclosed in a red frame. Scroll the map to adjust the position of the red frame.



6 Select “Register” and click the OK button.

The specified area is registered as an Area to Avoid, and the display shown in Step 2 appears. The name of the specific place appears in the list.

- If you want to register another Area to Avoid, repeat Steps 2 to 6.
- If you want to stop registration, push the BACK button. The previous menu appears.

⤷ Depending on the setting of route search conditions, you may not be able to avoid the specified areas. In that case, the message “Your journey cannot avoid the specified area” appears. For details, see “Route Setting Information” on page 143.

■ Changing or deleting an Area to Avoid

You can subsequently change/rename/delete the Area to Avoid.

1 Select “Settings” in the Main menu, then select “Route Guidance” and “Designate areas to avoid”. Click the OK button.

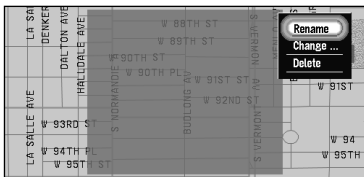
The list of Areas to Avoid appears.

2 Select an area you want to change or delete, and click the OK button.

3 Select “Yes” and click the OK button.

The map of the Area to Avoid and the list of operations related to this area appears.

4 Select the desired operation and click the OK button.



On this display, you can select the following options:

Rename : Changing a name. After entering a new name, select “OK” and click the OK button; the Route Guidance menu appears.

Change Area : A specified area can be changed. For the next steps, see Step 2 onwards in the “Registering an Area to Avoid” above.

Delete : Delete the selected Area to Avoid and return to the list of Areas to Avoid.

Using CUE Information

Using CUE, you can receive **traffic information** (pay service), **weather information** (free service), and **news** (free service) provided through FM broadcasts and confirm them on the screen. The traffic information is updated periodically. When you receive traffic information about your route, the Navigation System automatically displays the popup message informing you of the traffic information. Also, on this screen, you can select whether to recalculate the route to avoid the traffic jam. (In this case, route calculation is carried out by considering the traffic information within a 50 mile radius from your current location.)

■ Entering the PIN code

For details of the method of obtaining the Pin code and its expiration date, consult your dealer. If the Pin code is already set, you do not need to set it by yourself.

To receive traffic information, you must enter the PIN code. The PIN code is a 16-digit number you are given when entering a contract with CUE. The PIN code has an expiration date, and you can receive the informations of CUE until this date.

- 1 From the Main menu, select “Settings”, “CUE [Traffic Information]” and “Input CUE Access Code”. Click the OK button.
- 2 Enter the PIN code.



Enter the alphabetic characters or numbers one by one.

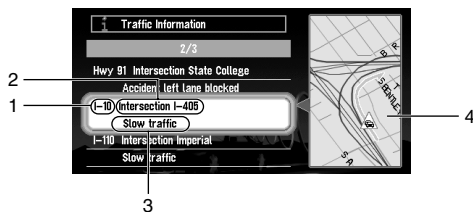
- 3 When entered, select “OK” and click the OK button.
The message confirming that authentication is complete appears and the Setting menu is displayed after about four seconds.
- ☞ If the PIN code entered is incorrect, a message asking you to enter it again is displayed. Click the OK button and enter the PIN code again.

■ Confirming traffic information relevant to the current route

- 1 Select “Information” in the Main menu, then select “Real time information” and “Traffic information”. Click the OK button.
The list of received traffic information is shown.
- ☞ By pressing the GUIDE button on the Remote Controller for more than three seconds, you can check the traffic information of your route. If there is no traffic information, the message indicating that there is no traffic information displayed. In such a case, if you click the OK button, the message disappears.

2 Select the information you want to see from the list.

The names of the streets in the place containing the information are displayed alphabetically in the list.



- 1. Street name
- 2. Place name
- 3. Traffic information
- 4. Map of the spot

3 Click the OK button.

Detailed information can be verbalized (see “Confirming verbalized information regarding traffic” below).

4 Once the information is checked, press the BACK button.

A list of traffic information appears.

- When traffic information is updated, the message informing that traffic information is updated appears. If no operation is done within 10 seconds, the message disappears. Confirm updated information as necessary.
- If you try to confirm traffic information after the expiration date of PIN code has passed, the message informing that the expiration date has already passed appears. If you click the OK button, the Traffic information menu appears. Obtain a new PIN code from CUE and enter it. For details, see “Entering the PIN code” above.

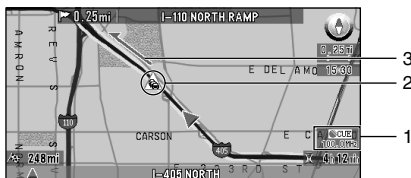
Confirming verbalized information regarding traffic

The following information appears:

- Street name
- Site name (The first and the last names of the cities involved in the traffic jam and the direction of the traffic jam are shown.)
- Traffic information (Example: “3mile slow-going traffic”)
- If the information cannot be displayed in one screen, select “◀◀” or “▶▶” and click the OK button to view the rest of the information.
- To display details of an adjacent event, select “◀” (previous event) or “▶” (subsequent event) and click the OK button.

Confirming traffic information on the map

When traffic information appears on the map, the following information appears:



1. Name of the radio station or frequency currently being received, and elapsed time since the last reception (within 5 minutes = green, between 5 and 20 minutes = red, 20 minutes or more = not displayed)
2. Icon to indicate the presence of traffic information (appears only when the scale on the map is under 0.75 mile)
3. An arrow to indicate the area of traffic jam (displayed only when the scale on the map is under 0.75 mile)

If you want to view detailed traffic information, point the cross pointer at the traffic information icon and click the OK button. When the Shortcut menu appears, select “Information” and click the OK button. You can check the information such as a place name.

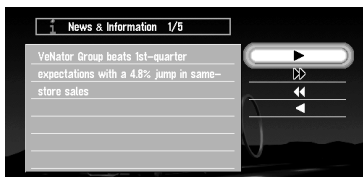
■ Checking the latest news

You can check the latest news provided by CUE. News is free.

- 1 In the Main menu, select “Information”, and “Real time information” and “News & Information”. Click the OK button.

The latest news appears.

- 2 Check the information.



- 2 When there are several new items, select “◀◀” or “▶▶” and click the OK button to see the rest of the news.

- 3 Press the BACK button.

The traffic information menu appears.

- 2 When the latest news is received, the message informing that news is updated appears. The message automatically disappears after ten seconds. If desired, check the news.

■ Checking the weather in each area

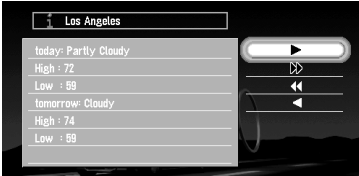
You can check the weather information provided by CUE. Weather information is free.

- 1 In Main menu, select “Information”, “Real time information” and “Weather Report”. Click the OK button.

A list of cities appears.

- 2 Select the name of the city where you want to check the weather, and click the OK button.

- 3 Check the information.



- If the information cannot be displayed within one screen, select “◀◀” or “▶▶” and click the OK button to check the rest of the information.

- 4 Press the BACK button.

A list of cities appears.

- When the weather information is updated, the message informing that weather report is updated appears. The message automatically disappears after ten seconds. If desired, check the information.

■ **Checking the state of CUE reception and the expiration date of the PIN code**

Here, the method of displaying the state of CUE reception and expiration date of PIN code on the screen is explained.

- 1 In the Main menu, select “Information”, “Real time information” and “Cue status”. Click the OK button.**

The state of CUE reception and the expiration date of the PIN code appears.

- 2 Check the information.**



- 3 Press the BACK button.**

The traffic information menu appears.

Caution

Once the expiration date of PIN code passes, you cannot receive traffic information. If necessary, obtain a new PIN code from CUE. For details, see the CUE instruction manual, or consult the shop where you bought the product or your dealer.

Using a PC Card

You can store data in the Address Book in a PC card, which can also be read by this unit. It is very useful when you want to share the data in the Address Book with your friends or to store the data for backup.

Before using a brand new card, you must initialize it, as described next.

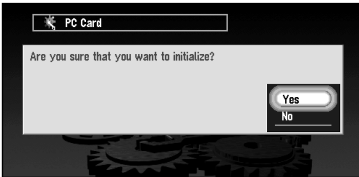
■ Initializing a PC card

- 1 **Select “Settings” in the Main menu, then select “PC Card” and “Initialize PC Card”. Click the OK button.**

A message asking you to confirm the initialization of the PC card appears.

- 2 **Select “Yes” and click the OK button.**

Once initialization is complete, a message to select the operation of the PC card automatically appears. (If you want to cancel the initialization, select “No”.)



⌚ Do not stop the engine until initialization of the PC card is complete.

■ Storing the data of registered locations in the PC card

You can select any item registered in the Address Book and store the data in the PC card. Data can be stored in the corresponding group. A new group can be created. (However, if nothing is registered in Registered Locations in Address Book, you cannot use this function.)

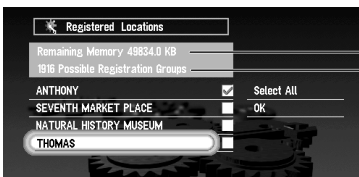
This section describes a method of creating a new group and storing the data of the registered location into the group.

⌚ The volume of data you can register depends on the capacity of the PC card.

- 1 **Select “Settings” in the Main menu, then select “PC Card” and “Save to PC Card”. Click the OK button.**

The list of locations registered in the Address Book appears.

- 2 **Select the desired item for storage and click the OK button.**



— Free space in the PC card
— Number of groups you can store

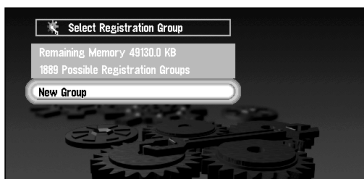
The selected item is checked. To register other locations, repeat this step.

Alternative option:

Select All : All the locations are selected at once.

- 3 After finishing the selection of locations, select “OK” and click the OK button.
The list of the stored group appears.

- 4 Select “New Group” and click the OK button.



The display to enter a new group name appears.

- a If the data is to be stored in a group already registered in the PC card, select the group name in the list and click the OK button. (Up to 100 items per group can be registered.) A message confirming that you want to store the data in the specified group appears. Click the OK button, and the data is stored in the PC card, and a map of your surroundings then appears.

- 5 After entering a group name, select “OK” and click the OK button.



The data of the registered location is stored in the entered group, and a map of your surroundings appears.

- a If there is little or no space in the PC card or you have already stored 100 locations in a group, a message, “Memory is Full”, or “You cannot store more than 100 items in the same group” appears. To remedy, delete unnecessary data, or create a new group.

■ Loading data from a PC card

Address Book data stored in a PC card is loaded to the Navigation System. (However, if there is no data of Registered Locations in the PC card, you cannot use this function.)

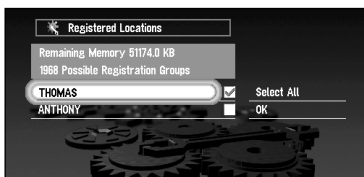
- 1 Select “Settings” in the Main menu, then select “PC Card” and “Read from PC Card”.
Click the OK button.

The list of groups to be stored appears.

- 2 Select the desired group and click the OK button.

The list of locations stored in the group appears.

- 3 Select the desired locations and click the OK button.



Selected items are checked. To load the data from other locations, repeat this step.

Alternative option:

Select All : A whole group can be selected.

4 **Select “OK” and click the OK button.**

After the data of the selected locations is stored in the Address Book, a map of your surroundings appears.

- ☞ If the total number of data items loaded from a PC card and data items registered in the Address Book exceeds 100, a message indicating that no more data can be registered appears. In that case, delete unnecessary data or decrease the number of data items loaded from a PC card.

■ **Deleting PC card data**

You can delete data for a specified location or a whole group. (However, if there is no data of Registered Locations in the PC card, you cannot use this function.)

1 **Select “Settings” in the Main menu, then select “PC Card” and “Delete PC card Data”. Click the OK button.**

2 **Select a group where the location you want to delete is stored and click the OK button.**

A list of locations stored in the specified group appears.

3 **Select a location you want to delete and click the OK button.**

The selected location is checked. To delete other locations, repeat this step.

Alternative option:

Select All : Select all locations in a group.

4 **Select “OK” and click the OK button.**

A message confirming that a specified location is deleted appears.

5 **Select “Yes” and click the OK button.**

After a specified location is deleted, a map of your surroundings appears.



Checking the Navigation Status

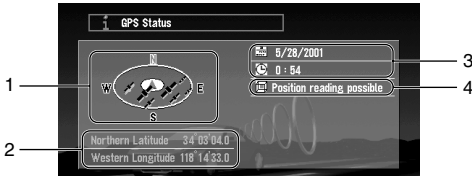
The navigation status, including the driving status of a car, positioning status by satellite, learning status of the sensor, and cable connection status can be checked.

■ Checking positioning information by satellite

Your Navigation System uses positioning data transmitted from GPS satellites. GPS reception status can be checked on the screen.

- 1 **Select “Information” in the Main menu, then select “Location Status” and “GPS Status”. Click the OK button.**

The GPS Status screen appears.



1. **Position of a satellite and radio wave reception status**

The position of a GPS satellite from which currently received data is shown. The satellite used for positioning is shown in orange, any other satellites from which data is currently being received are shown in yellow, and satellites from which data cannot be received are shown in black.

2. **Longitude and latitude**

If current positioning is not available, the longitude and latitude measured last is shown.

3. **Current date and time**

4. **Positioning status by GPS satellite (2-dimension, 3-dimension, etc.)**

Current positioning status is shown. The status depends on data reception status from a GPS satellite.

- 2 **Push the BACK button.**

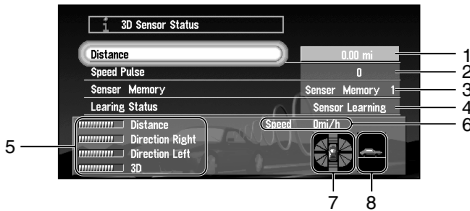
The previous screen appears.

■ Checking sensor learning status and driving status

To improve the precision of navigation, the system learns the driving status of your car and stores the data in the internal memory. The learning status of the sensor can also be checked on the screen. The current driving status, including car speed and inclination of a road, can be checked on the screen.

- 1 Select “Information” in the Main menu, then select “Location Status” and “3D Sensor Status”. Click the OK button.

The 3D Sensor Status screen appears.



1. Distance

Driving distance is indicated.

2. Speed Pulse

Total number of speed pulses is indicated.

3. Sensor Memory (Memory1/Memory 2)

Memory currently used is indicated.

- Your Navigation System can learn the driving status of two types of tires for summer and winter independently by using the different memories. To change memories, select “Sensor memory” and click the OK button. Then select “Memory-1” or “Memory-2”, which you want to use, and click the OK button.

4. Learning Status

Current driving mode is indicated.

5. Degree of learning

Learning situations of Distance, Right Turn, Left Turn, and 3D detection are indicated by the length of bars.

6. Speed

Speed detected by this unit is indicated. (This indication may be different from the actual speed of your car, so please do not use this instead of the speedometer of your car.)

7. Front and back G/Rotational speed

Accelerated velocity of your car to front / back direction is indicated. Also, rotational speed when your car turns to left or right is shown.

8. Inclination

Degree of slope of a street is indicated.

2 Push the **BACK** button.

The previous screen appears.

To clear the memory...

If you want to delete the memorized learning contents of “Distance”, “Speed Pulse”, or “Learning Status”, perform the following procedure:

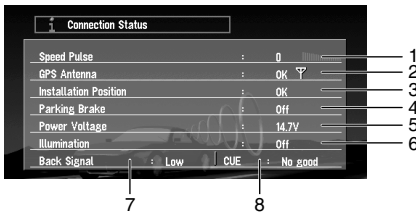
- 1 Select the item you want to delete, and click the **OK** button.
- 2 While “Clear” is highlighted, click the **OK** button.

■ **Checking the connections of leads and installation positions**

Check that cables are properly connected between the main unit and the car. Please also check whether they are connected in the correct positions.

- 1 Select “**Information**” in the Main menu, then select “**Location Status**” and “**Connection Status**”. Click the **OK** button.

The Connection Status screen appears. Either “OK” or “No good” appears on the screen, and connection status of each cable is shown.



1. Speed Pulse

The number of the Speed Pulse detected by this unit is shown. “0” is shown while the car is stationary.

2. GPS Antenna

The connection status of GPS antenna and the sensitivity are shown. If “No good” is displayed, check the connection status of GPS antenna.

3. Installation Position

The Installation position of the main unit is shown. If “No good” is displayed, refer to “Installation Manual” for the installation position.

4. Parking Brake

When the parking brake is applied, “On” is displayed. When the parking brake is released, “Off” is displayed. Keep the foot brake on while checking that the parking brake connection works properly.

5. Power Voltage

The power supply (reference value) provided from the car battery to this unit is shown. If the voltage does not fall within the range of 11 to 15V, check that power cable connection is correct.

6. Illumination

When the lamps of a car illuminate, “On” is displayed. When the lamps of a car go out, “Off” is displayed. (If the orange/white lead is not connected, “Off” appears.)

7. Back Signal

When the selector lever is shifted to “R”, the signal switches to “High” or “Low”.

Check that it is properly displayed when the selector lever is shifted with the brake pedal depressed if the reversegear signal input lead (see “Installation Manual”) is connected.

8. CUE UNIT

This indicates whether the Unit for information services (CUE) is connected properly.

If “No Good” is displayed check the connection status of CUE unit. For details of CUE, see “Using CUE Information” on page 82.

2 Push the BACK button.

The previous screen appears.

Customizing Your Navigation System

Modifying the Default Settings

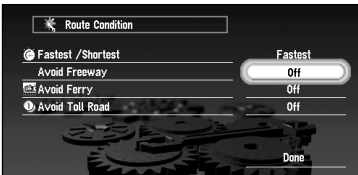
You can tailor default settings such as navigation functions and information display for ease of use.

The following example describes how to change settings. In this example, the “Avoid Freeway” function under “Route Guidance” settings is turned on.

- 1 **Select “Settings” in the Main menu, then select “Route Guidance” and click the OK button.**

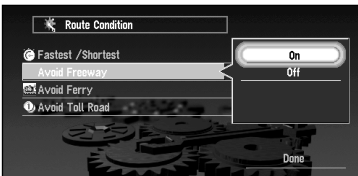
The Route Guidance menu appears. In the list, the settings are shown on the left, and the status of each setting is shown on the right. “Off” appears to the right of the “Avoid Freeway” setting, showing that this function is set off.

- 2 **Select “Avoid Freeway” and click the OK button.**
- 3 **Using the joystick, select “Off” to the right of “Avoid Freeway”, and click the OK button.**



A list of options possible to select under “Avoid Freeway” appears.

- 4 **Using the joystick, select “On” and click the OK button.**



- 5 **Select “Done” and click the OK button.**

The list of settings disappears, and the display turns to the one shown in step 2. The status to the right of “Avoid Freeway” is now “On”. If you want to change other settings, select the setting you wish to change, and repeat the operations described in Steps 2 to 5.

➤ Press the NAVI button to return to the map of your surroundings.

Items Users can Change

The Settings menu contains the Route Guidance, Map Display, Hardware, Others, CUE [Traffic Information], and PC Card menus. If you select a menu name in the Settings menu, an equivalent menu appears. In the menu screen, the contents of the current setting is shown on the right-hand side of each item.

This section describes the details of the setting for each menu. Settings marked with an asterisk (*) show that they are default or 'factory' settings.

☞ For PC card menu, see "Using a PC Card" on page 87.

■ Route Guidance menu

Auto Reroute

This setting controls whether, when you stray from the guided route, the system automatically recalculates the route to your destination.

On* : Auto Reroute function is turned on.

Off : Auto Reroute function is turned off.

Designate Areas to Avoid

Setting or change of Areas to Avoid is performed (see "Setting Areas to Avoid" on page 80).

Number of Routes

This setting controls whether, during a route calculation, the system calculates one route only, or whether it calculates six route options, one of which you select.

1* : Route options are not shown, and only one route judged as being optimum by your Navigation System is calculated.

6 : Six route options are calculated.

Fastest/Shortest

This setting controls conditions for calculating a route.

Shortest : Calculate a route with the shortest distance to your destination as a priority.

Fastest* : Calculate a route with the shortest travel time to your destination as a priority.

Avoid Freeway

This setting controls conditions for calculating a route.

On : Calculate a route that avoids freeways.

Off* : Calculate a route that may include freeways.

☞ Even when the setting of "Avoid Freeway" is turned "On", a route using the freeway may be set if your destination is far away.

Avoid Ferry

This setting controls conditions for calculating a route.

On : Calculate a route that avoids ferries.

Off* : Calculate a route that may include ferries.

Avoid Toll Road

This setting controls conditions for calculating a route.

On : Calculate a route that avoids toll roads.

Off* : Calculate a route that may include toll roads.

KM/Mile Setting

This setting controls the unit of distance displayed on your Navigation System.

- KM :** Show distances in kilometers.
- Mile* :** Show distances in miles.
- Miles & Yards :** Show distances in miles and yards.

Zoom Map of Intersection

This setting controls whether, when your car is approaching an intersection, an enlarged map of the intersection and its surroundings appears.

- On* :** Display switches to an enlarged map.
- Off :** Does not switch to an enlarged map.

Average Speed (Freeway)

This setting controls the estimated average speed when driving on a freeway, which is used for calculating the Estimated Time of Arrival (ETA) and travel time to your destination.

- When the “KM/Mile Setting” is set to “mile”, select one from “**55 mile/h**”, “**60 mile/h**”(*), “**65 mile/h**”, or “**70 mile/h**”.
- When the “KM/Mile Setting” is set to “km”, select one from “**90 km/h**”, “**95 km/h**”(*), “**100 km/h**”, or “**110 km/h**”.

Average Speed (Surface Road)

This setting controls the estimated average speed when driving on a general road, which is used for calculating the Estimate Time of Arrival (ETA) and travel time to your destination.

- When the “KM/Mile Setting” is set to “mile”, select one from “**35 mile/h**”(*), “**45 mile/h**”, or “**55 mile/h**”.
- When the “KM/Mile Setting” is set to “km”, select one from “**55 km/h**”(*), “**70 km/h**”, or “**90 km/h**”.

Guidance Voice

You can change the gender of the guidance voice. You cannot change the gender during route guidance, so change this setting when route guidance is not active.

- Male :** Guidance voice changes to a male voice.
- Female* :** Guidance voice changes to a female voice.

■ **Map Display menu**

Map Orientation

This setting controls whether the map is shown with the driving direction upward, or with North at the top.

Heading Up* : To ensure that the driving direction always faces up, the map automatically rotates according to the direction of your car.

North Up : The map is always displayed with North at the top.

Day/Night Map Display

To improve the visibility of the map during the evening, you can change the combination of the colors of the map.

Nighttime map* : You can change the combination of the colors of a map according to whether the car lights are On or Off.

Daytime Map : The map is always displayed with bright colors.

Tracking Display

Timing for deleting tracking can be set.

On (Always) : Display tracking for all journeys.

On (This journey) : Display tracking dots but erase them when the navigation system is turned off (when cutting the engine of your car).

Off* : Do not display tracking dots.

■ **Hardware menu**

Hardware Volume

The volume of voice guidance played by your Navigation System can be set. To change the volume, select “+” or “-” with the joystick and click the OK button.

Monitor Type

The scanning type can be set according to the type of a display used. If the screen of the display you are using is blurred, change this setting to the one that gives the clearer display.

Type A* : Non-interlaced type. (When using Pioneer’s display, choose this setting.)

Type B : Interlaced type.

■ **Others menu**

Demo Mode

This is a demonstration function for shops. After a route is set, the simulation of the route guidance to a destination is automatically displayed. Normally, set this to “Off”.

On (Repeat) : Demo Mode is set on.

Off* : Demo Mode is set off.

Voice Recognition Mute

This can be set when your Navigation System is combined with the Pioneer Head Unit with a muting function (one that has an Yellow/black lead). This setting controls whether the volume of the Head Unit is automatically muted during voice operation.

On* : During voice operation, the volume of the Head Unit is muted automatically.

Off : The volume of Head Unit stays the same during voice operation.

Voice Guidance Mute

This can be set when your Navigation System is combined with the Pioneer Head Unit with a muting function (one that has an Yellow/black lead). This setting controls whether the volume of the Head Unit is automatically muted during voice guidance.

- On*** : During voice guidance, the volume of Head Unit is muted automatically.
- Off** : Volume of Head Unit stays the same during voice guidance.

Daylight Savings Time

Whether to apply the daylight saving time (DST) is set. The time difference (+, -) between the time originally set in this unit (Pacific Standard Time) and the current location of your car is set here. (For details, see "Setup 3: Installing the Program" on page 28.)

- On** : DST is taken into account.
- Off*** : DST is not taken into account.

☞ When the period of summer time comes, or when the summer time ends, this unit does not automatically change the summer time setting. See "Setup 3: Installing the Program" on page 28 and change the summer time setting.

Display Clock

This setting controls whether to display the current time on the screen.

- On*** : The current time is shown.
- Off** : The current time is not shown.

Travel Time Display

Displaying the Estimated Time of Arrival or Travel Time from the current location to your destination on the screen is set.

- E.T.A*** : The Estimated Time of Arrival is shown.
- Travel Time** : Travel time to your destination is shown.
- Off** : Neither ETA nor Travel Time are shown.

☞ When moving to the area with different time zone, this unit does not automatically change the time display, etc., for each time zone. see "Setup 3: Installing the Program" on page 28 and change the time setting.

Password

Registering and changing the password (see "Registering a Password" on page 79).

Help Menu

This setting controls whether, if there are a few seconds of inactivity during menu operation, the Help Menu is displayed.

- On*** : The Help Menu is shown.
- Off** : The Help Menu is not shown.

Voice Recognition Help

This setting controls whether the list of available voice commands is displayed during voice operation.

- On*** : The list of commands is shown.
- Off** : The list of commands is not shown.

Language Selection

The language displayed can be set (see “Setup 3: Installing the Program” on page 28). Once you change the language, installation of the program starts.

Caution

Once the installation of the program starts, do not stop the engine of your car until the installation is completed.

☞ If you change the language used, the set password is cleared. If desired, set the password again (see “Registering a Password” on page 79).

Return Home

Registering and changing your home location (see “Registering Your Home and Your Favorite Location” on page 76).

Go to ...

Registering and changing your favorite location (see “Registering Your Home and Your Favorite Location” on page 76).

Modify Current Location

Move the joystick to up/down or left/right to adjust the current location of your car and direction displayed on a map.

Display Adjustment

The display position of the screen of your Navigation System is adjusted. To adjust the screen, move the joystick up/down and left/right. Adjust to the optimal position, making sure that all four corners of the display are visible.

■ CUE [Traffic Information] menu

Traffic Reroute Alert

This setting controls whether, when a traffic jam on the set route is received, to display a message. On this message, you can select whether to calculate a route by taking traffic jam into account.

On* : Confirming message is displayed.

Off : Confirming message is not displayed. Route calculation is not carried out, when a traffic jam occurs on the route.

Avoid Traffic on Route

This setting controls whether, when a traffic jam occurs on the route, to calculate a route by taking traffic jam into account.

On* : Route calculation is carried out by taking a traffic jam into account.

Off : Route calculation is carried out without taking a traffic jam into account.

Input CUE Access Code

The PIN code obtained from CUE is set (see “Entering the PIN code” on page 82).

Operating Your Navigation System with Voice

Basics of Voice Operation

Your Pioneer Navigation System comes with the latest in voice recognition technology. You can use voice commands to operate many of its functions. This chapter describes where you can use voice commands, and also what commands the system accepts.

Flow of voice operation

You can start voice operation any time when the screen under route guidance or a map is displayed (even when the map is scrolling).

The basic steps of voice operation are as follows. The steps are almost the same as when using the Remote Controller.

1. Press the TALK button to activate voice operation.
↓
2. Speak a command into the microphone.
↓
3. When the command is recognized, it is repeated.
↓
4. As necessary, repeat Steps 2 and 3.
↓
5. The voice command is carried out.

- ☞ With the “CD-SR80” Steering Remote Controller (sold separately), you can press the BAND button and the F button to switch on the operation mode of the Steering Remote Controller. When the operation mode is switched on, by pressing the BAND button of the Steering Remote Controller, you can activate voice operation, which is equivalent of pressing the TALK button. (CD-SR90 can also be used with this product.)
- ☞ When your Navigation System starts, you can also enter the password using your voice.

■ Available voice commands

When your car is parked with the parking brake on, press the TALK button to display a list of available voice commands (Voice Help menu). Display of the Voice Help menu can be turned on /off with “Voice Recognition Help” in the Settings menu.

When you speak one of the commands in the list; the command is carried out.



When voice command is possible.



When voice command is not accepted.

- While you are still learning voice operation features, and want to use voice commands, it is recommended that you first park your car in a safe place and look at the commands shown by the Voice Help menu.

When all the voice commands cannot be shown in one screen

To scroll through the rest of the menu, simply use the scale controller.

To continue to use voice operation, press the TALK button and speak a command.

- When you are used to voice operation features and no longer need Voice Help, you can switch it off. For details, see “Voice Recognition Help” on page 99.

To cancel voice operation

You can cancel voice operation features at any time by pressing the NAVI button or pressing the TALK button downwards. After you cancel voice operation, the map is displayed.

■ An example of voice operation

When using the voice command, it is important to get the timing correct. Before speaking, you must first wait for the “Please request command” message. This is followed by a Beep tone to indicate it is now your turn to speak. In this example, you want to search for the nearest gas station. When presented with a list of search options, you say the number to the left of the result that you want to select.

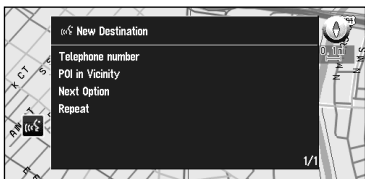
1 Press the TALK button.

A list of commands for voice operation appears. After the “Please request command” message, the beep indicates that the system is ready to accept your voice command. You say a command after this beep.

- If no command is made in the next 6 seconds, voice recognition is cancelled and the Navigation System is on hold until the next operation. Press the TALK button to reactivate voice operation.
- If you want to listen to the message of the Navigation System, say “Repeat”.

2 Say “New Destination”.

Speak all commands towards the microphone. If the voice command is recognized, the command appears on the screen, and the system voice repeats it. Then, a message to prompt the next operation is given.



3 Say “POI in Vicinity”.

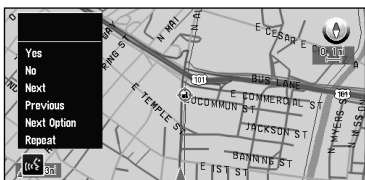
You say the contents you want to operate. Here, selection method of your destination is specified. When you want to search the petrol station nearest to the current location, say “POI in Vicinity”. When you speak the command, the Navigation System displays the command it recognized and the system voice repeats it.

⤷ If a command that you did not intend is recognized, press the TALK button or say “Next option”. Other available commands are then shown. If you then press the TALK button within 3 seconds, yet more commands are shown. Repeat this until the command you want to use is shown. (After the command you want to use appears, if you leave it for a while, the command is set automatically.)

4 Say “Gas station”.

The map of the nearest gas station is shown. The message, “Would you like to stop by?” follows.

5 After confirming the location, say “Yes”.



With the location shown on the map set as the destination, the route calculation starts.

⤷ If you want to see maps with other options, at Step 5 say “Next”. (After the command you want to use appears, if you leave it for a while, the command is set automatically.)

⤷ At Step 5, if you say “No”, you cancel voice operation and the map is displayed.

Tips for Voice Operation

For your voice commands to be correctly recognized and interpreted, ensure that conditions are suitable for recognition.

Reduce the volume setting on your car audio system

The voice recognition system may have problems distinguishing your voice commands from background noise. Turn down your audio system: remember that voices on the radio might be interpreted as commands.

Close the car windows

Just as your audio system may interfere with voice operation, so can wind noise caused by open windows and sounds entering from outside. If you have problems with voice recognition, try closing the car windows.

Position the microphone carefully

For optimum pick-up, the microphone should be fixed at a suitable distance directly in front of the driver. Make sure that you do not need to alter your position or look away from the road ahead when giving voice commands; not only is this awkward, but it can also compromise driving safety. Bear this in mind when choosing where to attach the microphone.

Pause before giving a command

After pressing the TALK button on the Remote Controller, pause for a moment after the confirmation beep before giving your command. Speaking too soon may cause the recognition to fail. If you still experience recognition problems, leave a slightly longer pause before giving a command.

Pronounce your commands carefully

Speak slowly, deliberately and clearly. Fast or mumbled commands are easily misinterpreted. If the microphone is properly positioned, there is no need to raise your voice when giving commands.

- If you have a Pioneer Head Unit with a muting function (one that has an Yellow/black lead), the volume will automatically be reduced when you give a voice command.

Playing DVD/CD

To Ensure Safe Driving



WARNING

- **To avoid the risk of accident and the potential violation of applicable laws, this product is not for use with a video screen that is visible to the driver.**
 - **In some countries or states the viewing of images on a display inside a car even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed.**
-

This product detects whether your car's parking brake is engaged or not, and prevents you from watching a DVD on the display connected to Video Output while driving. The following message will be displayed on the screen while the car is moving:

YOU CANNOT USE THIS FUNCTION WHILE DRIVING




When you park your car in a safe place and apply the parking brake, the picture appears on the screen.

Before Using

Check the type of disc that can be played with this unit. Also, to play a disc, you must switch the operation mode of the Remote Controller. Once the operation mode is switched, the function of each button changes (see page 110 and 113).

Compatible with DVD, CD Formats

DVD and CD discs that display the logos shown below can be played back on this player. For more information on discs compatible with this player, refer to the table below.

Disc types and logos	Diameter/Playable sides	
 	DVD VIDEO 12 cm (5 in.)/single-sided	1 layer 2 layer
	12 cm (5 in.)/double-sided	1 layer 2 layer
	DVD VIDEO 8 cm (3 in.)/single-sided	1 layer 2 layer
	8 cm (3 in.)/double-sided	1 layer 2 layer
	CD 12 cm (5 in.)/single-sided	
	CD single 8 cm (3 in.)/single-sided	

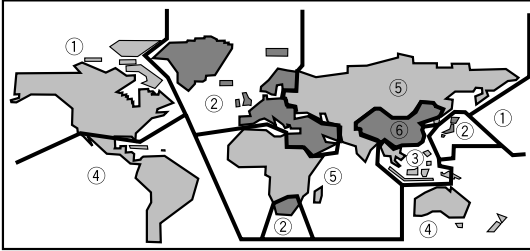
The disc format logos shown above are found on disc labels or on disc jackets.

- With some DVD-Video discs, you may not be able to use certain functions.
- Playback of some DVD-Video discs may not be possible.
- With DVD-R/DVD-RW discs, only recordings made in the Video format (Video mode) can be played back. DVD-RW discs recorded in the Video Recording format (VR mode) cannot be played back.
- Even with DVD-R/DVD-RW discs featuring recordings made in the Video format (Video mode), playback may not be possible with this product due to disc characteristics or scratches or dirt on the disc. Dirt or condensation on the lens inside this product may also prevent playback.
- Playback of CD-R/RW and DVD-R/RW discs that have not been finalized is not possible.
- Playback of discs recorded with a PC using the correct format is possible, but depending on the application software settings, environment and other factors, playback may not be possible. (For details, inquire at the store or dealer's where you purchased the application software.)
- Playback of CD-TEXT discs is possible, but display of titles and other information is not possible.
- CD-Extra discs can be played back as music CDs.
- With Super Audio CDs, playback of a hybrid disc's CD layer only is possible.

Caution

- Playback of DVD-Audio, Video CD and CD-ROM discs is not possible. This player can only play back discs bearing the marks (see page 106).
- DVDs that have incompatible region numbers cannot be played on this player. The region number of the player can be found on the rear panel.

The illustration below shows the regions and corresponding region numbers.



CD-R and CD-RW discs

- CD-R (CD-Recordable) /CD-RW (CD-ReWritable) discs recorded on a CD recorder unit other than a music CD recorder may not play properly on this CD player.
- Music CD-R/CD-RW discs, even when recorded on a music CD recorder, may not play properly on this CD player because of differing disc characteristics, scratches or dirt on the disc. Dirt or condensation on the lens inside this product may also prevent playback.
- Titles and other text information recorded on a CD-R/CD-RW disc may not be displayed by this product.
- This product conforms to the track skip function of the CD-R/CD-RW disc. The tracks containing the track skip information are skipped over automatically.
- If you insert a CD-RW disc into this product, load time to playback will be longer than for a conventional CD or CD-R disc.
- Read the precautions accompanying the CD-R/CD-RW discs before use.

■ What the Symbols on DVDs Indicate

The marks below can be found on DVD disc labels and packages. They indicate the type of images and audio recorded on the disc, and the functions you can use.

Mark	Meaning
	Indicates the number of audio systems.
	Indicates the number of subtitle languages.
	Indicates the number of viewing angles.
	Indicates the picture size (aspect ratio: screen width-to-height ratio) type.
	Indicates the number of the region where playback is possible.

Disc Operation

With some DVDs, depending on the intentions of the disc's producer, certain operations may be prohibited. Also, with discs enabling menu operation and two-way operation during playback, the way titles and chapters are organized may prevent certain operations such as Repeat play.

If this happens with this player, the prohibited symbol "⊘" is displayed.

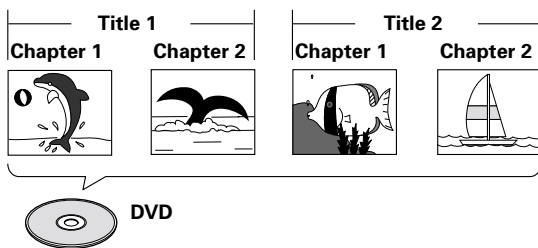
The prohibited symbols "⊘" may not appear on some discs.

Disc Organization

DVD

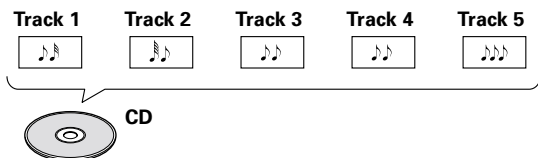
On DVD-Video discs, the contents are divided into titles which are in turn divided into chapters. With video material, a single work (movie etc.) usually corresponds to a single title, with different scenes corresponding to separate chapters. With karaoke discs, one song corresponds to one title.

However, some discs are not organized like this, so bear this in mind when using the Search function.



CD

On CDs, the contents are divided into tracks. One track usually corresponds to one song. On some discs, tracks may also feature an index.



Dolby Digital

Manufactured under license from Dolby Laboratories. “Dolby” and the double-D symbol are trade symbols of Dolby Laboratories.



This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.

Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.



Caution

On DVD-VIDEO, sound tends to be recorded at a lower volume (than in music CDs and suchlike) to produce a dynamic sound effect. After listening to a DVD-VIDEO disc, where sound is recorded at a lower volume, turn the volume down before listening to another type of disc, otherwise it will be too loud.

How to Listen to a CD

If you set a CD to this unit, the CD is automatically played. You can select a track, or turn Repeat range, Random play or Scan play ON/OFF.

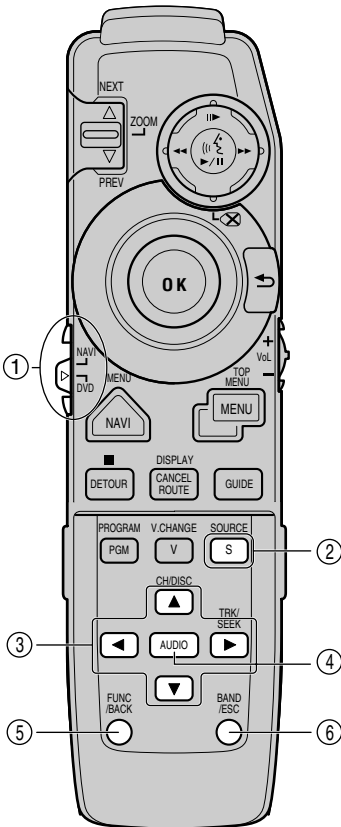
Before listening to a CD

In order to avoid damaging a disc or the main unit, before inserting a disc, make sure that no disc is set in the Disc loading slot.

➤ For inserting and removing a disc, see Chapter 1 "Setting and removing the disc".

How to use the Remote Controller

When playing a CD, you must switch the operation mode of the Remote Controller. Once the operation mode is switched to DVD, the following operations become available with the Remote Controller.



(1) Operation mode switch

When you play DVD-Video or CD, set this switch to DVD.

(2) SOURCE button

This is used for turning CD/DVD Source ON/OFF. Press this button to stop playing a CD. If you press again, play is resumed from the section where you stopped previously.

(3) Cross Key / ▲ ▼ ► ◀ button

These are used when selecting items such as skipping a track of a CD, return to a previous track, fast-forward or fast-rewind.

(4) AUDIO button

AUDIO menu is shown while CD is playing.

(5) FUNC/BACK button

This button is used for returning to a previous screen in the AUDIO menu.

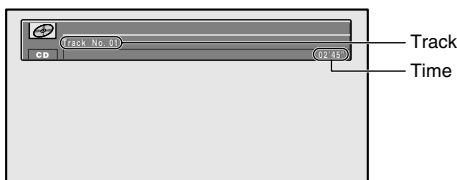
(6) BAND/ESC button

This button is used when returning to the CD play screen from the AUDIO menu.

■ Basic method of listening to CD

- 1 **Insert the CD with its title side facing upwards.**

The disc starts playing.



- 2 **Press ◀ or ▶ button.**

To move to the next track, press ▶ button once.

To move to the beginning of the track, press ◀ button once.

To move to the previous track, press ◀ button twice.

↻ To fast-forward or fast-rewind, keep pressing ◀ or ▶ button.

- 3 **Press the disc eject button, and remove the CD.**

Play is cancelled and the CD is ejected from the disc loading slot.

■ Basic of CD-Function

- 1 **Press the AUDIO button while CD is playing.**

AUDIO menu appears.

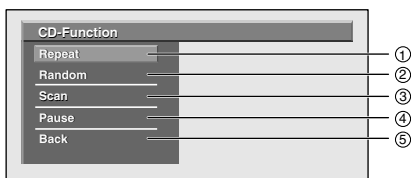
- 2 **Press the ▲ button or the ▼ button to select the option you desire, and press the AUDIO button.**

- 3 **Press the ▲ button to turn it "ON".**

↻ To turn it "OFF", press the ▼ button.

- 4 **Press the BAND/ESC button to finish the setting.**

Normal CD play screen appears.



① Repeat the same track

You can listen to the music you are currently playing repeatedly. (Repeat play)

② Listening to the music with different order

You can listen to the CD you are currently playing with different order. (Random play)

③ Search for the track you want to listen to

You can listen to the first 10 seconds of each track (Scan play).

↻ If the track you want to listen to is played, press the ▼ button to turn it "OFF".

↻ If returned to the track where Scan play started, Scan play is cancelled automatically.

④ *Pause a play*

You can pause a play of CD. (Pause)

⑤ *Finish the setting*

Normal CD play screen appears.

How to Watch DVD

You can fast-forward, fast-rewind, advance one frame at a time, play in slow motion, or freeze frame the display. Also, you can check the details of operation while playing the DVD, using the DVD information screen. In the DVD information screen, you can select the chapter, the language, the subtitles, or the angle.

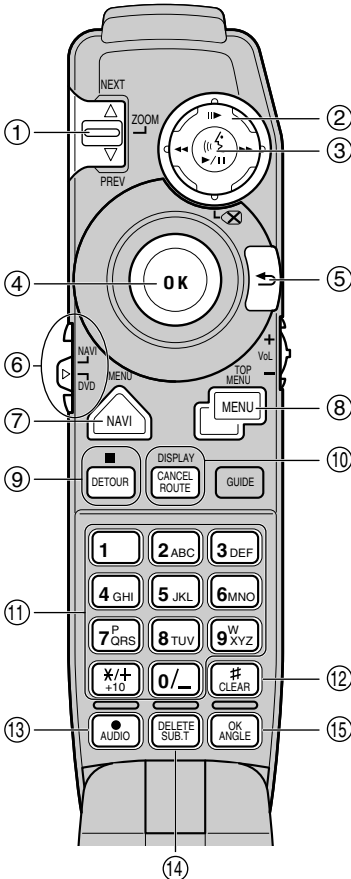
Before watching DVD

In order to avoid damaging a disc or the main unit, before inserting a disc, make sure that no disc is set in the Disc loading slot.

➤ For inserting and removing a disc, see Chapter 1, "Setting and removing the disc."

How to use the Remote Controller

When playing a DVD, you must switch the operation mode of the Remote Controller. Once the operation mode is switched to DVD, the following operations become available with the Remote Controller. If a button on the Remote Controller has two labels written on the Remote Controller, the orange label shows the function when playing a DVD-Video.



(1) NEXT/PREV controller

Use the NEXT/PREV controller to move forwards or backwards one chapter. Use it also for switching the default setting screen.

(2) Control stick

Use the control stick to fast-forward (▶▶), fast-rewind (◀◀), to play a single frame at a time, or for slow-motion play.

(3) PLAY/PAUSE button

Use this button to switch between play and pause.

(4) Joystick/OK button

Use this for selecting items on a menu screen or to confirm a selection.

(5) BACK button

Use this button to move back to a previous screen in a default setting screen.

(6) Operation mode switch

When playing DVD-Video or CD, switch this to DVD.

(7) MENU button

When the DVD is played, the route menu stored on the DVD is shown. When the DVD is stopped, the default setting screen appears.

(8) TOP MENU button

The main menu stored in DVD is displayed.

(9) ■ (STOP) button

This is used to stop playing.

(10) DISPLAY button

The information display (page 120) is displayed while the DVD is playing. This is also used to return to the normal display.

(11) Numeric keypad

Use this keypad for entering numbers such as track numbers.

(12) CLEAR button

This is used when canceling numbers entered such as track numbers.

(13) AUDIO [•] button (see page 118)

This button is used to select the sound track.

(14) SUB.T (SUBTITLE) button (see page 118)

This button is used for switching the subtitles on or off.

(15) ANGLE button (see page 119)

This button is used for changing the angle.

(16) SOURCE button

This is used for turning CD/DVD Source ON/OFF. Press this button to stop playing a DVD. If you press again, play is resumed from the section where you stopped previously.



■ Basic method of watching DVD

About Prohibition Symbol

.....

In some cases, a Prohibition Symbol “⊘” may appear while playing DVD or when play is stopped, and you may not be able to operate the DVD. This is due to some specifications of the DVD-Disc. Operations that are possible or impossible may vary according to various conditions such as the contents of the DVD and particular sections to play. (For detailed method of operation, see the instruction manual attached to the DVD-Disc.)

1 Insert the DVD with its title side facing upwards.

The disc starts playing.

↳ If the DVD is already inserted, press the PLAY/PAUSE button.

Caution during play

- When the disc already inserted in this unit is played, it starts from the place where you stopped previously. In the case of a DVD with the main menu stored, the main menu may appear when playing starts.
- Normally, the subtitle language or soundtrack language set in the default setting is used. However, if the language for subtitles or soundtrack is changed during play, the language selected previously is used.
- Some discs may always play with the language specified by DVD regardless of the default setting.
- The image is not shown while the car is being driven. Only the soundtrack is played.
- When the message “Please press “V.SEL” button on the monitor.” appears, press the V.SEL button on the Pioneer display and change the type of image. (If you use a display which is not manufactured by Pioneer, connect RCA Video output (yellow) of Hide-away Unit of this unit properly so that the image appears correctly. For details, see the installation manual.)

2 Press the disc eject button and remove the DVD.

Play is cancelled and DVD is ejected from the disc loading slot.

■ Operation of menu

You can call the main menu or route menu stored in the DVD. In the main menu, you can select titles, or set the soundtrack or subtitles. In the route menu, you can select chapters.

About main menu / route menu

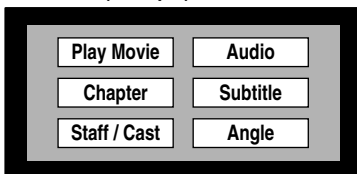
- The main menu/route menu may not be stored in some DVDs.
- The items in main menu/route menu displayed or their operation method may vary according to the DVD. For details, see the DVD’s instructions.
- If the menu that is possible to display is not stored in a DVD, the Prohibition symbol “⊘” appears.

1 Press the TOP MENU button or MENU button during playing.

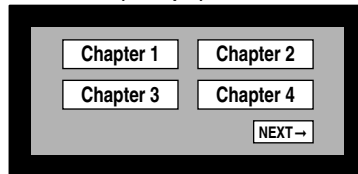
The main menu or route menu stored in DVD appears.

- When the TOP MENU button is pressed, the main menu appears.
- When the MENU button is pressed, the route menu appears.

Main menu (example)



Route menu (example)



⤵ If you press the MENU button while displaying the menu screen, play is resumed from the section before displaying a menu.

2 Move the joystick to select the item, and click the OK button.

You can operate the selected item.

■ **Stop playing**

1 **Press the ■ button.**

Play is stopped.

- The section where the play is stopped is memorized. When you play the disc next time, play will be resumed from there.
- Depending on discs or some sections you are playing, the prohibition symbol may appear and you may not be able to stop playing.

■ **Move the chapter forward/backward**

Moving to next chapter

1 **Move the NEXT/PREV controller to NEXT side once, while playing.**

Next chapter is played, and the title number and chapter number appear for about eight seconds.

Moving back to the previous chapter

1 **Move the NEXT/PREV controller to PREV side once, while playing.**

Play is resumed from the beginning of the current chapter, and title number and chapter number currently playing appear for about eight seconds.

When moving back to the previous chapter, move the NEXT/PREV controller to PREV side twice.

■ **Specifying a title or a chapter**

You can specify a title or a chapter by using the numeric keypad. (Direct search)

Selecting a title

1 **Press the title number you want to watch with the numeric keypad while playing is stopped.**

- To select 3, press 3.
- To select 11, press +10, then 1.
- To select 23, press +10, then +10, then 3.

Specified title is played and the title number appears for about eight seconds.

Selecting a chapter

1 **Press the chapter number you want to watch with the numeric keypad while playing.**

- To select 3, press 3.
- To select 11, press +10, then 1.
- To select 23, press +10, then +10, then 3.

Specified chapter is played, and the chapter number appears for about eight seconds.

■ *Fast-forward / fast-rewind*

You can fast-forward or fast-rewind to the point where you want playing to start. You can adjust the speed of fast-forward or fast-rewind by the length of time you keep the Joystick turned.

1 **Push the control stick to the left or right while playing.**

While the control stick is held, the disc is fast-forwarded or fast-rewound.

Pushing the control stick to the right fast-forwards. Pushing to the left fast-rewinds.

During fast-forward, the FWD symbol (▶▶) appears.

During fast-rewind, the REV symbol (◀◀) appears.

2 **Release the control stick at the section where you want playing to start.**

The disc is played from that section.

- ☞ Depending on the disc, only fast-forward and fast-rewind may be possible in some sections. If you fast-forward or fast-rewind up to that section, the disc is automatically switched to play.

■ *Viewing One Frame at a Time*

Freezing the frame

1 **Press the PLAY/PAUSE button during playing.**

The image freezes.

- ☞ To return to normal play, press the PLAY/PAUSE button again.

- ☞ You cannot hear the soundtrack during freeze-frame.

Moving One Frame at a Time

1 **Move the control stick up while playing.**

The image pauses.

- If you move the control stick up, the image moves forward by one frame.

- ☞ To return to normal play, press the PLAY/PAUSE button.

- ☞ You cannot hear the soundtrack while moving one frame at a time.

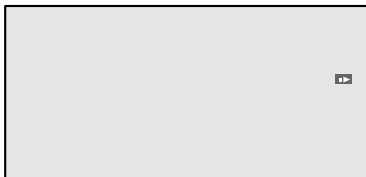
- ☞ Depending on the DVD, the image may be blurred while moving one frame at a time.

Moving slowly forward

1 **Push the control stick up for more than one second while playing.**

The image is played in slow motion.

- ☞ To return to normal play, press the PLAY/PAUSE button.



Slow play symbol is displayed.

While the image is played slowly, the slow play symbol appears.

- ☞ You cannot hear the soundtrack during slow play.

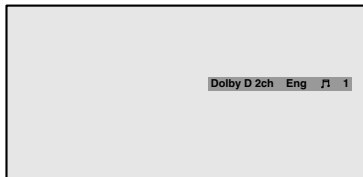
- ☞ Depending on the DVD, the image may be blurred during slow play.

■ **Selecting a sound track type, subtitles or camera angles**

If the several types for sound track, subtitles or camera angles are stored in a DVD, you can switch these options while playing the DVD.

Switching sound track types during playback

1 Press the AUDIO [•] button while playing.



Dolby D 2ch Eng J1 1

Sound track selection palette

Sound track selection palette and the sound track type currently selected appear.

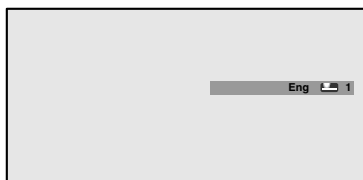
2 While the sound track selection palette is shown, press the AUDIO [•] button.

As you press the AUDIO [•] button, sound track type is switched over.

- If a DVD does not have several sound track types stored, you cannot switch the sound track.
- Depending on DVD, you may be able to switch sound track types only from the menu screen (see page 123).
- If you do not press any buttons or enter any keys for about eight second types, the sound selection palette disappears. To select sound track types, press the AUDIO [•] button again.
- You can also change the sound track type by moving the joystick up or down, or by pressing the numeric keypad while the sound track selection palette is shown.
- The sound track selected here will be memorized in this unit. When playing next time, the play resumes with the sound track selected previously.
- For details of sound track type stored in DVD, see the instruction manual of the DVD disc.

Switching languages for subtitles during playback

1 Press the SUB.T button while playing.



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Subtitle selection palette

Subtitle selection palette and the language currently selected appear.

2 While the subtitle selection palette is displayed, press the SUB.T button.

As you press the SUB.T button, subtitle is switched over.

- If a DVD does not have several subtitles stored, you cannot switch the subtitles.
- Depending on the DVD, you may be able to change subtitles only from the menu screen.
- If you do not press any buttons or enter any keys for about eight seconds, the subtitle selection palette disappears. To select subtitles, press the SUB.T button again.
- You can also change the subtitle by moving the joystick up or down, or by pressing the numeric keypad while the subtitle selection palette is shown.
- Subtitle language selected here will be memorized in this unit. When playing next time, the play resumes with the subtitle selected previously.

Switching camera angles during playback

Depending on the DVD, some may have images filmed from several angles in one scene. While playing DVD, you can change the angle of the image.

Section where you can change the angle

At a section where the angle can be changed, the angle selection mark appears on the bottom-right of the screen.

- 1 Press the **ANGLE** button while playing the section that is filmed from several angles.



Angle selection mark

Angle selection mark and the current angle number are indicated.

- 2 While the angle selection mark is shown, press the **ANGLE** button.

As you press the **ANGLE** button, the angle is switched over.

- ⌋ If a DVD does not have several angles filmed in one scene, you cannot switch angles.
- ⌋ You cannot change the angle while playing slowly.
- ⌋ If you do not press any buttons or enter any keys for about eight seconds, angle selection mark disappears. When changing angles, press the **ANGLE** button again.
- ⌋ You can also change the angle by moving the joystick up or down, or by pressing the numeric keypad while the angle selection mark is shown.
- ⌋ You can switch the display of angle selection mark ON or OFF. (see “Setting the display of the angle selection symbol” on page 128)

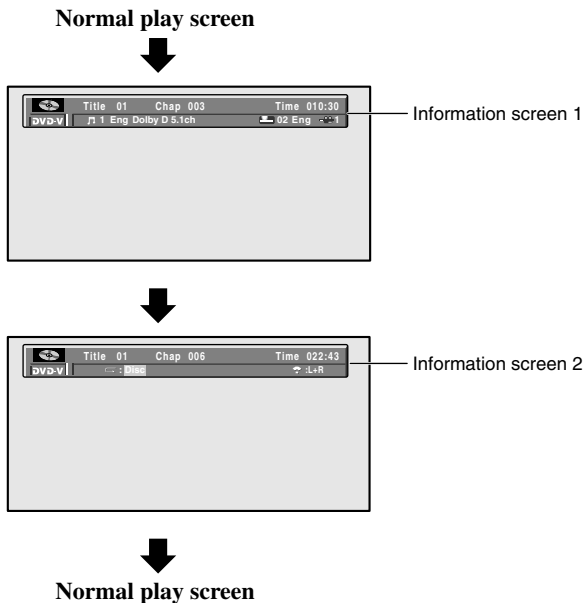
■ To Operate While Checking with the Screen

While playing DVD, playing condition can be shown on the screen (Information screen). On the information screen, you can operate the disc while checking the details on the screen. You can select chapters, soundtracks, subtitles, or angles.

Calling information screen

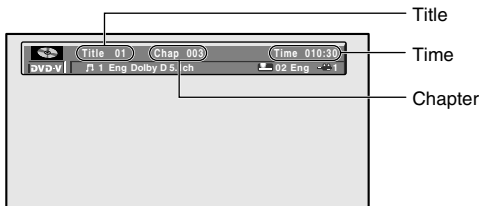
1 Press the DISPLAY button while playing.

As you press the DISPLAY button, the display switches as follows:



Specifying title or chapter, or playing from specified time

1 Move the joystick to the left or right to select the item you want.



The selected item is highlighted.

2 Move the joystick up or down and change the number.

- If you want to cancel the number you entered, press the CLEAR button.

When specifying the time

- If you want to select 21 minutes 43 seconds, press 0, 2, 1, 4, and 3.
- If you want to select 1 hour 11 minutes, convert it to minutes (71 minutes), and press 0, 7, 1, 0, and 0.

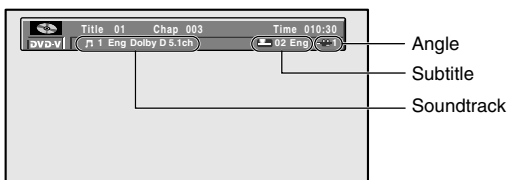
3 Click the OK button.

It is played from specified title, chapter, or the time.

- If you do not press any buttons or enter any keys for about eight seconds, the number entered returns to the one currently playing.

Changing sound track, subtitle, or angle (Information screen 1)

1 Move the joystick to the left or right to select the item you want.



The selected item is highlighted.

- You can also select by pressing the AUDIO button, SUB.T button, or ANGLE button.

2 Move the joystick up or down and change the setting.

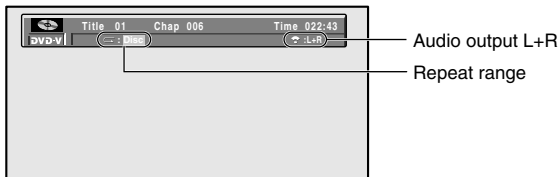
As you move the joystick up or down, the setting changes.

You can also change the setting by using the numeric keypad. (In case, when the number exist.)

- The number of items you can select will vary according to the number of sound tracks, subtitles, or angles stored in the DVD.
- You cannot change the sound track on a DVD that does not store several sound tracks.
- You cannot change the subtitles on a DVD that does not store several subtitles.
- Depending on the DVD, you may be able to change subtitles or sound tracks only from the menu screen.
- You cannot change the angle while playing in slow motion.
- If you left the DVD inserted, the sound track (language) and subtitle (language) already selected is memorized in this unit. When you play it next time, it plays with the sound track (language) and subtitle (language) selected previously.

Changing repeat range, or audio output L+R (Information screen 2)

- 1 Move the joystick to the left or right and select the item you want to operate.



The selected item is highlighted.

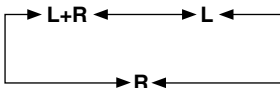
- 2 Move the joystick up or down and change the setting.

As you move the joystick up or down, the setting changes as follows:

Repeat range



Audio output L+R



Adjusting Settings

You can change default settings of DVD such as sound track, subtitle, menu language, or setting of viewing restrictions. Normally, the DVD is played with the contents set in the default setting screen.

■ Basic Operation of the default setting screen

- 1 Press the **■** button while playing.

The disc stops playing.

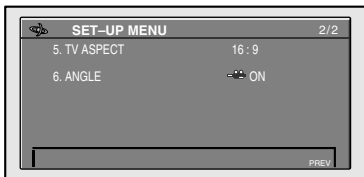
- 2 Press the **MENU** button for one second.



The SET-UP MENU appears.

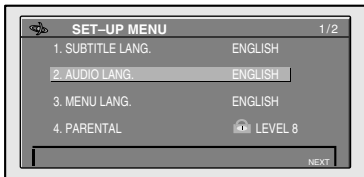
- 3 To show the next page, highlight the “NEXT” on the right corner of display, and click the **OK** button.

If you return to the previous screen, highlight the “PREV” and click the **OK** button, or press the **BACK** button.



The SET-UP MENU changes.

- 4 Move the joystick up or down to select the desired item, and click the **OK** button.



- 5 Operating the desired item.

☞ If you press the **MENU** button in the SET-UP MENU, the SET-UP MENU disappears and the Stop condition returns.

- ☞ To go back to SET-UP MENU

When setting each item, the screen switches accordingly. If you want to continue to set other items or re-set a particular item, press the **BACK** button to return to SET-UP MENU.

■ Setting the subtitle

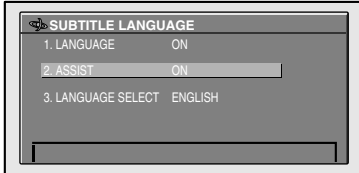
Turning the subtitle and assist subtitle ON/OFF

About the assist subtitle

.....

The Assist subtitle is a subtitle explaining the scenes for the people with hearing problems. You can display this if an assist subtitle is stored in DVD.

- 1 Select "SUBTITLE LANG." and click the OK button.
- 2 Select "LANGUAGE" or "ASSIST", and click the OK button.

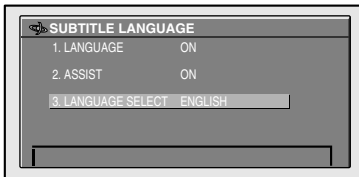


As you press the OK button, the selected item is switched ON/OFF.

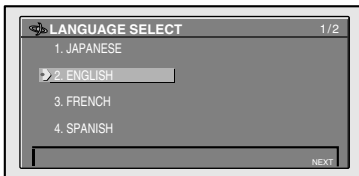
Setting subtitle language

The subtitle is displayed with the language set here. If you change the subtitle (language) while playing, the language selected previously will be displayed.

- 1 Select "SUBTITLE LANG." and click the OK button.
- 2 Select "LANGUAGE SELECT" and click the OK button.



- 3 Select the language you want to set, and click the OK button.



The language of the subtitle is set.

- ▷ If the selected language is not stored in the disc, the subtitle with the language specified by DVD is shown.
- ▷ If a specific language is preset on the DVD, the language specified by the DVD will be displayed regardless of any settings you make.

- ⤷ If you remove the DVD and insert it again, the subtitle will be displayed in the default language.

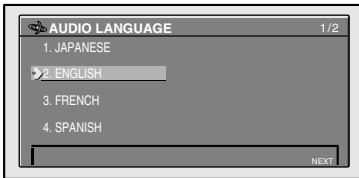
When selecting “OTHERS”

.....
If you select “OTHERS”, the “SUBTITLE LANG. OTHERS” screen appears. Enter a four-digit number as described in the language code list (see page 129) with the numeric keypad, and click the OK button. If you press the CLEAR button, the code number of the language currently being set appears.

■ **Setting the audio language**

The audio is played in the language you set. If you change the sound track (language) while playing, the language selected previously will be played.

- 1 **Select “AUDIO LANG.” and click the OK button.**
- 2 **Select the language you want to set, and click the OK button.**



The audio language is set.

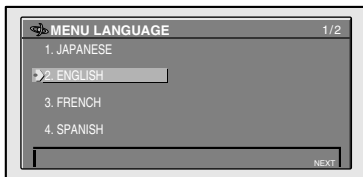
- ⤷ If the selected language is not stored in the disc, audio with the language specified by the DVD is shown.
- ⤷ If a specific language for the sound track is preset on the DVD, the DVD is played in the preset language regardless of any settings you make.
- ⤷ If you remove the DVD and insert it again, the sound track will be played in the default language.

When selecting “OTHERS”

.....
If you select “OTHERS”, the “AUDIO LANG. OTHERS” screen appears. Using the numeric keypad, enter a 4-digit code number listed in the language code list (see page 129) and click the OK button. If you press the CLEAR button, the code number of the language currently set appears.

■ **Setting the menu language**

- 1 Select “MENU LANG.” and click the OK button.
- 2 Select the language you want to set, and click the OK button.



The menu language is set.

- If the selected language is not stored in the disc, the menu with the language specified by the DVD is show.
- If a specific language for the menu is preset on the DVD , the menu is displayed with the preset language specified by DVD regardless of your settings.

When selecting “OTHERS”

.....

When selecting “OTHERS”, the “MENU LANG. OTHERS” screen appears. Using the numeric keypad, enter a four-digit code number listed in the language code list (see page 129) with and click the OK button. If you press the CLEAR button, the code number currently set appears.

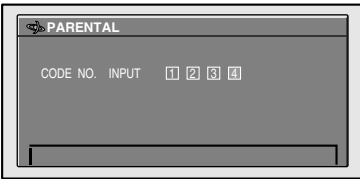
■ Setting viewing restriction

You can restrict viewing of any scenes or DVD you do not want your children to watch, such as adult or violent scenes. Viewing restrictions can be set in different levels.

About viewing restrictions

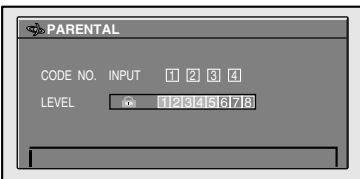
- Write your password down and keep it in a safe place in case you forget it.
- Depending on the DVD, the level of viewing restriction being set may be different. Check the packaging of DVD software. Also, you cannot set viewing restrictions on a DVD that does not have a viewing restriction setting.
- Depending on the DVD, the scenes with viewing restrictions may be skipped while playing. For details, see the instructions of the DVD disc.
- If you try to play a restricted DVD, the password prompt screen may appear. In this case, play will not start unless the correct password is entered.

- 1 Select “PARENTAL” and click the OK button.
- 2 Enter the four-digit password using the numeric keypad, and click the OK button.



- 3 Select the level you want to set, and click the OK button.

LEVEL	Description
LEVEL8	All DVDs can be played (default setting).
LEVEL2-7	Playing a DVD that contains adult or violent scenes is restricted. (A DVD for universal viewing or for children is played.)
LEVEL1	Only the DVD for children is played.



The viewing restriction is set.

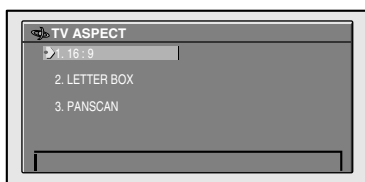
- ☞ When you want to change the viewing restriction level, perform the same operation.
- ☞ While changing the setting, if the wrong password is entered in Step 2, a prohibition symbol appears. If this happens, enter the correct password.
- ☞ If you forget the password, press the CLEAR button ten times. Then you can set a new password.

■ **Setting aspect ratio of the screen**

There are two types of displays: wide screen with an aspect ratio of 16:9 and normal screen with an aspect ratio of 4:3. Set the aspect ratio according to the display you use.

- 1 Select “TV ASPECT” and click the OK button.
- 2 Select the item you want to set, and click the OK button.

TV ASPECT	Description
16:9	Select when using a wide display (default setting).
LETTER BOX	Select when using a normal display. If the image stored in the DVD is 16:9, the screen becomes smaller with black bands appearing on the top and bottom part of the display, but without left and right sides being cut off.
PANSCAN	Select when a normal display is used. When the image stored in the DVD is 16:9, the left and right sides will be cut off, but the image will be displayed on the whole screen.



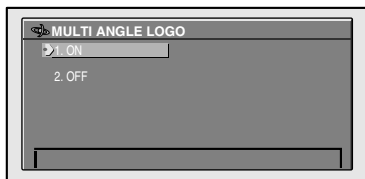
The TV ASPECT is set.

- ☞ If you use a normal monitor and set to “16:9”, the image may become unnatural.
- ☞ When you play a DVD that is not compatible with PANSCAN, it is played in LETTER BOX aspect even when “PANSCAN” is set.
- ☞ Some DVDs may not be able to change the TV ASPECT. For details, see the instruction of the DVD disc.

■ **Setting the display of the angle selection symbol**

While playing a section where the angle can be changed, the angle selection symbol appears. You can also turn the display of the angle selection symbol ON or OFF.

- 1 Select “ANGLE” and click the OK button.
- 2 Select “ON” or “OFF”, and click the OK button.



Selected content is set.

Language code list

Language (code)	Input code
Japanese (ja)	1001
English (en)	0514
French (fr)	0618
Spanish (es)	0519
German (de)	0405
Italian (it)	0920
Chinese (zh)	2608
Dutch (nl)	1412
Portuguese (pt)	1620
Swedish (sv)	1922
Russian (ru)	1821
Korean (ko)	1115
Greek (el)	0512
Afar (aa)	0101
Abkhazian (ab)	0102
Afrikaans (af)	0106
Amharic (am)	0113
Arabic (ar)	0118
Assamese (as)	0119
Aymara (ay)	0125
Azerbaijani (az)	0126
Bashkir (ba)	0201
Byelorussian (be)	0205
Bulgarian (bg)	0207
Bihari (bh)	0208
Bislama (bi)	0209
Bengali (bn)	0214
Tibetan (bo)	0215
Breton (br)	0218
Catalan (ca)	0301
Corsican (co)	0315
Czech (cs)	0319
Welsh (cy)	0325
Danish (da)	0401
Bhutani (dz)	0426
Esperanto (eo)	0515
Estonian (et)	0520
Basque (eu)	0521
Persian (fa)	0601
Finnish (fi)	0609
Fiji (fj)	0610
Faroese (fo)	0615
Frisian (fy)	0625
Irish (ga)	0701
Scots-Gaelic (gd)	0704
Galician (gl)	0712
Guarani (gn)	0714
Gujarati (gu)	0721

Language (code)	Input code
Hausa (ha)	0801
Hindi (hi)	0809
Croatian (hr)	0818
Hungarian (hu)	0821
Armenian (hy)	0825
Interlingua (ia)	0901
Interlingue (ie)	0905
Inupiak (ik)	0911
Indonesian (in)	0914
Icelandic (is)	0919
Hebrew (iw)	0923
Yiddish (ji)	1009
Javanese (jw)	1023
Georgian (ka)	1101
Kazakh (kk)	1111
Greenlandic (kl)	1112
Cambodian (km)	1113
Kannada (kn)	1114
Kashmiri (ks)	1119
Kurdish (ku)	1121
Kirghiz (ky)	1125
Latin (la)	1201
Lingala (ln)	1214
Laothian (lo)	1215
Lithuanian (lt)	1220
Latvian (lv)	1222
Malagasy (mg)	1307
Maori (mi)	1309
Macedonian (mk)	1311
Malayalam (ml)	1312
Mongolian (mn)	1314
Moldavian (mo)	1315
Marathi (mr)	1318
Malay (ms)	1319
Maltese (mt)	1320
Burmese (my)	1325
Nauru (na)	1401
Nepali (ne)	1405
Norwegian (no)	1415
Occitan (oc)	1503
Oromo (om)	1513
Oriya (or)	1518
Panjabi (pa)	1601
Polish (pl)	1612
Pashto, Pushto (ps)	1619
Quechua (qu)	1721
Rhaeto-Romance (rm)	1813
Kirundi (rn)	1814

Language (code)	Input code
Romanian (ro)	1815
Kinyarwanda (rw)	1823
Sanskrit (sa)	1901
Sindhi (sd)	1904
Sangho (sg)	1907
Serbo-Croatian (sh)	1908
Sinhalese (si)	1909
Slovak (sk)	1911
Slovenian (sl)	1912
Samoa (sm)	1913
Shona (sn)	1914
Somali (so)	1915
Albanian (sq)	1917
Serbian (sr)	1918
Siswati (ss)	1919
Sesotho (st)	1920
Sundanese (su)	1921
Swahili (sw)	1923
Tamil (ta)	2001
Telugu (te)	2005
Tajik (tg)	2007
Thai (th)	2008
Tigrinya (ti)	2009
Turkmen (tk)	2011
Tagalog (tl)	2012
Setswana (tn)	2014
Tonga (to)	2015
Turkish (tr)	2018
Tsonga (ts)	2019
Tatar (tt)	2020
Twi (tw)	2023
Ukrainian (uk)	2111
Urdu (ur)	2118
Uzbek (uz)	2126
Vietnamese (vi)	2209
Volapük (vo)	2215
Wolof (wo)	2315
Xhosa (xh)	2408
Yoruba (yo)	2515
Zulu (zu)	2621

Appendix

Positioning Technology

The Navigation System accurately measures your current location by combining the positioning by GPS and by Dead Reckoning.

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.

Positioning by dead reckoning

The 3D Hybrid Sensor in the main unit also calculates your position. The current location is measured by detecting driving distance with the speed pulse, the turning direction with the Gyrosensor, and inclination of the road with the G sensor.

The 3D Hybrid Sensor can even calculate changes of altitude, and corrects for discrepancies in the distance travelled caused by driving along winding roads or up slopes. Also, the Navigation System learns the driving conditions and stores information in the memory; thus, as you drive more, the precision of the positioning becomes more accurate.

The method of positioning changes as follows depending on whether the speed pulse of your car is detected or not:

3D hybrid mode

This is active when the speed pulse is detected. Inclination of a street can be detected.

Simple hybrid mode

When the speed pulse is not detected, positioning is performed in this mode. Only horizontal movement is detected, so it becomes less accurate. Also, when the positioning by GPS is not available, such as when your car enters a long tunnel, the discrepancy between your actual and calculated position may become bigger.

☞ The speed pulse data comes from the speed sensing circuit. The location of this speed sensing circuit depends on your car model. In some cases, it is impossible to make a connection to it, and in such a case we recommend that the ND-PG1 speed pulse generator (sold separately) be used.

How do GPS and dead reckoning work together?

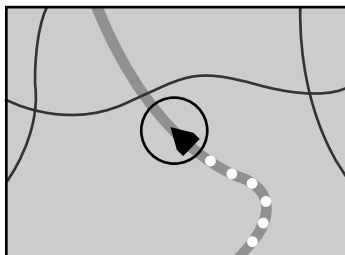
For maximum accuracy, your Navigation System continually compares GPS data with your estimated position as calculated from the data of 3D Hybrid Sensor. However, if only the data from the 3D Hybrid Sensor is available for a long period, positioning errors are gradually compounded until the estimated position becomes unreliable. For this reason, whenever GPS signals are available, they are matched with the data of the 3D Hybrid Sensor and used to correct it for improved accuracy.

To ensure maximum accuracy, the dead reckoning system learns with experience. By comparing the position it estimates with your actual position as obtained using GPS, it can correct for various types of error, such as tire wear and the rolling motion of your car. As you drive, the dead reckoning system gradually gathers more data, learns more, and the accuracy of its estimates gradually increases. So, after you have driven some distance, you can expect your position as shown on the map to show fewer errors.

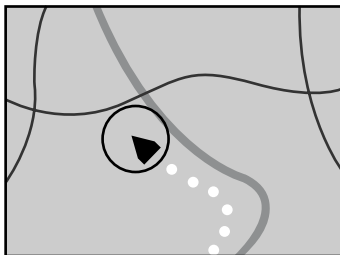
- If you use chains on your wheels for winter driving, or if you put on the spare wheel, the errors may appear to suddenly increase because of the increased wheel diameter. To prevent the contamination of previously acquired learning data, learning automatically stops when such errors suddenly appear.
- There are two learning memories, so the Navigation System can learn about and compensate for two different tire sets, such as summer and winter tires (see “Checking sensor learning status and driving status” on page 91 for details).

Map matching

As mentioned, the GPS and dead reckoning 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 cars 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

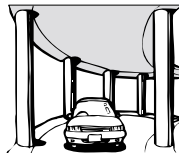
Positioning errors are kept to a minimum by combining GPS, Dead Reckoning, and map matching. However, in some situations, these functions may not work properly, and the error may become bigger.

■ When the positioning by GPS is impossible

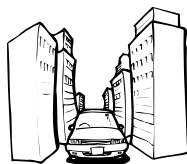
- If signals cannot be received from more than two GPS satellites, GPS positioning does not take place.
- In some driving conditions, signals from GPS satellites may not reach your car. In this case, it is impossible for the system to use GPS positioning.



In tunnels or enclosed parking garages



Under elevated roads or similar



When driving among high buildings



When driving through a dense forest or tall trees

- If a car phone or cellular phone is used near the GPS aerial, GPS reception may be lost temporarily.
- Do not cover the GPS aerial with spray paint or car wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals, so keep the aerial clear.

- ☞ If, for any reason, GPS signals cannot be received, learning and error correction are not possible. If GPS positioning has been operating for only a short time, your car's actual position and the current location mark on the map may diverge considerably. Once GPS reception is restored, accuracy will be recovered.

■ **Conditions likely to cause noticeable positioning errors**

Certain conditions are more likely to cause discrepancies between your actual position and the location shown on the map display.

- 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 freeway
- If you take a recently opened road that is not on the map
- If you drive in zig-zags
- If the road has connected 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 parking lot or similar using a spiral ramp
- If your car is turned on a turntable or similar
- If your car's wheels spin, such as on a gravel road or in snow
- If you put on chains, or change your tires for some of a different size
- If trees or other obstacles block the GPS signals for a considerable period
- If you drive very slowly, or in a start-and-stop manner, as in a traffic jam
- If you join the road after driving around a large parking lot
- When you pass around a traffic circle
- When starting driving immediately after starting the engine
- If you insert the disc and turn your Navigation System on while driving

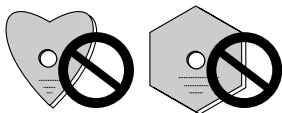
Some types of car may not output a speed signal while driving at just a few kilometers per hour. In such a case, the mark indicating your car's current location may not be displayed correctly while in a traffic jam or in a car park.

Handling and Care of the Disc

Some basic precautions are necessary when handling your discs.

Discs you can use

- Use the disc provided for use with this unit. You can use ordinary DVD-Video and music CDs (see “Compatible with DVD, CD Formats” on page 106 for details).
- Do not try to use a disc that is cracked, scratched or bent.
- This product is designed for use with conventional, fully circular discs only. Use of shaped discs is not recommended for this product.

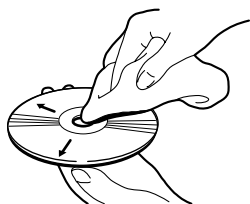


Precautions for handling

- Do not touch the playing surface of a disc. Hold the disc carefully by its outer edge or by the hole in the center.
- Do not attach sticky tape or suchlike to the surfaces of a disc. Avoid scratching the disc, or damaging it in any way.

About cleaning

- Keep your disc clean and free of dust. If you need to clean a disc, use a soft, lint-free cloth to wipe the surface from the center outward, as shown.



- Never apply solvents to your disc, such as benzene, thinner, commercial cleaners, or anti-static fluids intended for vinyl records.

Precautions for storage

- Keep your disc away from direct sunlight, sources of heat, and sources of dust. Store the disc in its protective case to provide greater protection against warping.

Ambient conditions for playing disc

Ambient conditions can affect the behavior of discs and the operation of the system.

- Vibrations caused by driving may sometimes interrupt the reading of data from the disc, causing slow screen changes.
- In cold weather, condensation may form on the optical lens used to read the disc or on the disc itself, particularly when the car initially warms up. This may render the disc unreadable for up to an hour as the moisture evaporates naturally. You may wipe condensation of a disc with a soft cloth (from the center outward).
- At extremely high temperatures, a temperature cutout protects the Navigation System by switching it off automatically.
- Despite our careful design of the product, as a result of mechanical wear, ambient conditions for use, or handling of the disc, small scratches that do not affect actual operation may appear on the disc surface. This is not a sign of the malfunction of the unit. Consider it to be normal wear and tear.

Resetting the System

On occasion, you may need to reset your Navigation System.

When a reset is necessary

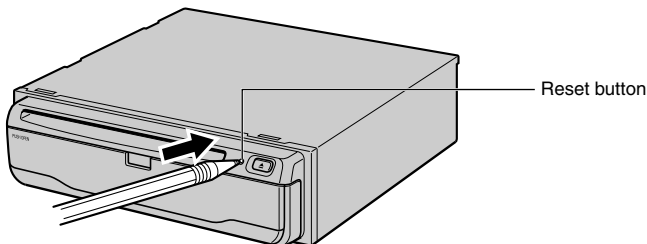
You should reset the system in the following situations:

- After installation of this unit in your car.
- If there appear to be problems with the operation of the system.
- If there are problems with the display.

Using the reset button

The reset button is recessed in the front of the main unit to prevent accidental use. You can see it in the top right corner of the front panel.

Insert a pointed implement such as a ballpoint pen into the small hole and push.



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 pressing problems. If a solution to your problem cannot be found here, contact your dealer or the nearest authorized Pioneer service facility.

You cannot position your car on the map or the positioning error is large.

Possible causes:

- (1) The quality of signals from the GPS satellites is poor, causing reduced positioning accuracy. Such a loss of signal quality may happen for the following reasons:
 - The GPS aerial is in an unsuitable location.
 - Obstacles are blocking signals from the satellites.
 - The position of satellites relative to your car is bad.
 - 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.)
- (2) Signals from the car's speed pulse are not being picked up properly.
- (3) The main unit may not be mounted securely in your car.
- (4) Your car is operating in Simple hybrid mode (see "Positioning by dead reckoning" on page 131).
- (5) Setting of attachment direction lever is wrong.
- (6) Main unit is installed with extreme angle exceeding the limitation of the installation angle.

Solutions:

- (1) Check the GPS signal reception using "GPS Status" (see "Checking positioning information by satellite" on page 90) and the position of the GPS aerial if necessary, or continue driving until reception improves.
- (2) Check that the cables are properly connected. If necessary, consult the dealer that installed the system.
- (3) Check that the main unit is securely mounted and, if necessary, consult the dealer that installed the system.
- (4) Connect the speed signal input (pink lead wire) of the power wire correctly, and reset the 3D Hybrid Sensor.
- (5) Check the attachment position of the main unit of your Navigation System and the setting of the attachment direction lever (see the "Installation Manual").
- (6) Confirm the installation angle. (This unit must be installed within +30 degrees to -15 degrees of the horizontal, or within five degrees of your car's direction of travel.)

The map continually reorients itself.

Possible causes:

The display is set to "Heading Up".

Solutions:

Check the "Map Orientation" settings (see "Map Orientation" on page 98) and change the setting to "North Up".

Tracking marks are not displayed.

Possible causes:

The "Tracking Display" is turned off.

Solutions:

Check the "Tracking Display" settings (see "Tracking Display" on page 98) and make sure "On (Always)" or "On (This journey)" is selected.

The daylight display is used even when the car lights are on.

Possible causes:

- (1) “Daytime Map” is selected on “Day/Night Map Display.”
- (2) The Orange/white lead is not connected.

Solutions:

- (1) Check the “Day/Night Map Display” setting (see “Day/Night Map Display” on page 98) and make sure “Nighttime Map” is selected.
- (2) Check connection.

The system will not switch on or will not operate.

Possible causes:

Installation or connection has been carried out incorrectly.

Solutions:

Check with your dealer.

The display is very dim.

Possible causes:

- (1) The car’s light is turned ON, and “Nighttime Map” is selected on “Day/Night Map Display”.
- (2) The car cabin temperature is extremely low.

Solutions:

- (1) Read about the “Day/Night Map Display” setting (see “Day/Night Map Display” on page 98) and, if desired, select “Daytime Map”.
- (2) A Liquid Crystal Display (LCD) is used, and such displays tend to darken when cold. Wait for the car to warm up.

There is no voice guidance or the volume is low.

Possible causes:

The volume setting is low.

Solutions:

Check the volume setting on the display or turn the volume up according to “Hardware Volume” (see “Hardware Volume” on page 98) and/or turn up the volume on the display.

The Remote Controller fails to work.

Possible causes:

- (1) The batteries are low.
- (2) The batteries have been inserted incorrectly.
- (3) The Remote Controller is pointing at the floor or a seat.
- (4) The signal receptor on the display is exposed to direct sunlight.
- (5) The Mode switch of the Remote Controller is not set correctly.

Solutions:

- (1) Change the batteries.
- (2) Check that the batteries are properly inserted according to the + and - markings.
- (3) Ensure that the Remote Controller has a clear line of sight to the display unit.
- (4) Move the Remote Controller closer to the receiver on the display unit.
- (5) Set the Mode switch of the Remote Controller correctly (see “Selecting dipswitches” on page 21).

The image sways

Possible causes:

The setting of “Monitor Type” on the Settings menu is not appropriate.

Solutions:

Change the setting of “Monitor Type” (see “Monitor Type” on page 98) to the different setting.

When the screen is frozen...

Park your car at a safe place, and cut the engine off. Turn the ignition key back to “Acc off”. Then start the engine again, and turn the power to the main unit back on. If this does not solve the problem, press the reset button on the main unit.

If the display suddenly disappears

When using the Navigation System with another manufacturer’s display, if the display suddenly disappears, setting of the image output may have changed. Set again by following the instructions below.

1. Park your car in a safe place, and pull the side brake.
2. Turn the power of the main unit off (cut off the engine).
3. While pressing [•] (AUDIO) button on the bottom left of the numeric keypad of the Remote Controller, turn the ACC on (start the engine).

Image output is switched, as the image of the navigation (RGB image) is output from RCA Video output, and the image is displayed on the screen.

Messages and how to react to them

The following messages may be displayed by your Navigation System.

- ☞ 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.

(1) "You cannot use this function while driving."

When:

While trying to make a menu selection.

What to do:

Pull over and come safely to a halt, put the parking brake on, and then try again.

(2) "Please check whether this is the correct disc."

When:

- (1) If you try to use a disc which is incompatible with this system.
- (2) If you insert a disc upside down.
- (3) If the disc is dirty.
- (4) If the disc is cracked or otherwise damaged.

What to do:

- (1) Insert a suitable disc.
- (2) Insert the disc with the label upward.
- (3) Clean the disc.
- (4) Consult your dealer.

(3) "Irregular speed pulse signal is detected. Please power off the system and check the installation. After you have checked, please re-boot the system and press "OK"."

When:

If the Navigation unit does not receive the car speed pulse.

What to do:

Consult your Pioneer dealer.

(4) "Speed pulse wire is not connected. System will start to learn without speed pulse. Please keep in mind that accuracy is not fully ensured without speed pulse."

When:

The speed signal input (pink lead wire) of the power wire is not connected.

What to do:

To operate with 3D hybrid mode, connect the speed signal input (pink lead wire) of the power wire correctly. Although it can be operated with Simple hybrid mode without connecting the speed signal input, the precision of the positioning will be less accurate (see "Positioning by dead reckoning" on page 131).

(5) "Vibration is detected. Please power off the system and check the installation. After you have checked, please re-boot the system and press "OK"."

When:

While the car is stationed, the Navigation System is installed at the place where the main unit may be affected by a large vibration.

What to do:

Re-install the main unit of the Navigation System to the place where the main unit will not be affected by vibration.

(6) "Direction of G sensor is not correct. Please power off the system and check the installation. After you have checked, please re-boot the system and press "OK" . Please check installation, then press "OK"."

When:

Direction of G sensor is set incorrectly.

What to do:

See the "Installation Manual" and set the direction of G sensor correctly.

(7) "Gyro Sensor is not working properly. Please consult your dealer or Pioneer service center."

When:

Abnormal output of Gyrosensor is detected.

What to do:

Note down the error code shown on the screen; turn off the power, and then contact your nearest Pioneer service facility.

(8) "The route could not be calculated."

When:

If the distance to the destination is too far and cannot be set.

What to do:

Change the destination to a location that is closer and divide up the route.

(9) "You cannot set additional way points. Please cancel current way point and re-enter to set new way point."

When:

If you try to set more than five way points.

What to do:

Add the next way point after arriving at your first way point. Or, after deleting an unnecessary way point, add a new way point.

(10) "The route could not avoid the specified area."

When:

If route setting cannot avoid a specified Area to Avoid.

What to do:

Choose whether or not to try setting a route through the area.

(11) "More than 6 characters are required."

When:

If you enter a name of six characters or less for a registered location or a listing in the Address Book.

What to do:

Use a name with more than six characters.

(12) "You cannot store more locations."

When:

If there are already 50 checked items when you attempt to add a check in the Address Book.

What to do:

Remove the check from some destinations as appropriate.

(13) "Memory is Full."

When:

When there is no more free space in the PC card.

What to do:

Delete unnecessary data.

(14) "Initialization is failed. Back to PC card menu automatically."

When:

Your Navigation System could not initialize the PC card for some reason.

What to do:

Try the initialization again. If it still does not work, there may be some problems on the PC card.

(15) "Irregular character strings. Please input again."

When:

A symbol you cannot pronounce was entered (during password registration).

What to do:

Enter a word that you can pronounce.

(16) "An error has occurred. Please note the following error code and power off."

When:

In the case of a system failure.

What to do:

Write down the error code shown on the screen; turn off the power, and then contact your nearest Pioneer service facility.

(17) "Player is overheating. Discontinue use until temperature returns to normal."

When:

The DVD-ROM drive has overheated.

What to do:

Cut the power off, and wait for a while before turning the power on again.

☞ When the messages other than above are displayed, follow the instructions on the display.

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 is automatically set. Also, for day or time traffic regulations, only information about traffic regulations at the time when the route was calculated is shown. 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 whilst 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 pass. If you want to pass a certain street, set the way point on that street.)
- The route set by your Navigation System is based on the assumption that the driver does not know the area. Thus, the streets known to local drivers, such as small streets or special roads, may not be used for the set route.
- If there are fewer than six recommended routes, some route options may become the same route. If visiting points are set, only one route is calculated.
- Route setting is limited to the range of the disc in use. Additionally, if the destination is too far, there may be instances where the route cannot be set. (If you want to set a long-distance route going across several areas, set way points along the way.)
- If you try to select a point on a freeway as a destination, a location on a nearby road (such as below the freeway) may be chosen instead.
- During voice guidance, turns and junctions from freeway are automatically announced. (However, if you pass junctions, turns, and other guide points in rapid succession, some may not be announced.)
- Incorrect guidance may be given at freeway junctions if the exit lane is particularly long.
- It is possible that guidance may direct you off a freeway and then back on again.
- If a route along a normal freeway passes near a freeway service area, the system may mistake the service area for a freeway junction.
- In some cases, the set 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, guidance may direct you past your destination and then indicate a U-turn to get back to it.
- 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.
- In the following cases, the route that passes through an Area to Avoid may be set:
 - when your car is in the Area to Avoid
 - when your destination or way points are in the Area to Avoid
 - when it is not possible to avoid doing so
- If a suitable route cannot be set in compliance with the specified “Detour” parameter or your preference to avoid freeways or a ferry route, the setting or parameter may be ignored.
- When there is a traffic jam ahead, if driving through the traffic jam is better than taking the detour, a detour route may not be set.
- If your destination is a freeway junction, voice guidance may not announce the junction.
- There may be instances when the starting point and the destination point are not on the highlighted route.

- When calculating a route to return to the original route, the shortest way back to the original route is found. It may take you along winding roads, narrow city streets, and other non-optimum roads.
- “Auto Reroute” function does not work in the following cases:
 - when your car is not on a street
 - when your car is on a ferry
 - when driving on a road inside a facility
 - when driving on a roundabout
- The streets indicated in pink color on a map are the ones that are not taken into account in route calculation or route guidance. (Since traffic regulation data for these streets are not stored, these streets will not be considered in the route calculation, as proper guidance will be impossible.)

■ **Route highlighting**

- Once set, the route is highlighted in bright green 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.
 - In Driver’s view, the route displayed may be different from the actual shape of the streets, and the route may seem to protrude from the streets in the following locations:
 - near your destination, departure point, or way points.
 - near the mark indicating your car when route is recalculated with Auto Reroute function and such-like.

■ **Intersection enlargement**

- As you approach an intersection, the map scale increases to show more detail.
- If the intersection is approached in a gentle curve, the map displayed may differ from the actual road layout.

■ **Tracking**

Your Navigation System marks your course on the map in certain increments. This is called tracking. It is handy when you want to check a route travelled without guidance or if returning along a complex route. A maximum of about 124 miles (200 km) is marked and, as you travel beyond this limit, tracking marks are erased in order from the most distant. Tracking can also be set for automatic erasing whenever the Navigation System is switched off (see “Tracking Display” on page 98).

■ **About traffic information**

- Because the information is updated only periodically, it may take time to collect all the information.
- Traffic information is not taken into account in calculating estimated time of arrival time or travel time for your destination.
- This product may not be able to receive traffic information in some areas.

- Pioneer does not bear responsibility for the accuracy of the information transmitted.
- Pioneer does not bear responsibility for changes to information services provided by broadcasting stations or by related companies, such as cancellation of the services or changing to pay-services. Also, we do not accept return of the product for this reason.

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Map Database :

The entire United States (excluding Alaska and Hawaii) and portions of Canada are contained in one disc. The United States map database includes the interstate freeways, state highways, country roads, major and general streets. The Canadian map database includes some of the highways, country roads, major and general streets. The Canadian map may show a higher level of detail in large populated areas than in less populated areas.

Detailed Areas :

The detailed areas are primarily located around metropolitan centers. All of the roads and the road network attributes are contained in the map database for these detailed areas. Road network attributes include information such as street names, street address, turn restrictions, etc. A detailed area will include all major highways, service roads, and residential roads. The detailed areas include points of interest (POI). The map database may not include data for newly constructed areas or map database corrections that are completed after the production of the disc. The Navigation System will provide full route guidance in the detailed map areas.

Limited Guidance Areas :

These areas exist in the United States map database only. Any area that is not included in the detailed area list is a limited guidance area. These areas include the road maps but may not contain complete road network attribute information. Road network attributes include information such as street names, street address, turn restrictions, etc. Complete road network attribute information is needed to provide full route guidance. Due to the incomplete road network attributes, route guidance is available only on some of the major roads in the limited guidance areas. The surrounding streets will be displayed on the map display but route guidance may not be given on these streets. The navigation system will inform you when you are travelling into a limited guidance area where route guidance will not be available. The street maps displayed on the navigation system can then be used to determine the remaining route to your destination.

Non-detailed Areas :

These areas exist in the Canadian map database only. Any area that is not included in the detailed area list is a non-detailed area. Some of the major roads are available in the non-detailed areas and may be selected through the intersection and the freeway entrance/exit route planning options. The city center category is available in the all point of interest planning option. Residential roads, service roads, points of interest (except city center) and street addresses are not included in the non-detailed map areas.

Specifications

Main unit

(GPS receiver)

System	: L1, C/Acode GPS SPS (Standard Positioning Service)
Reception system	: 8-channel multi-channel reception system
Reception frequency	: 1,575.42 MHz
Sensitivity	: -130 dbm
Frequency	: Approx. once a second

(Common)

Max. output impedance	: 1Vp-p, 75Ω
Maximum current consumption	: 2 A
Power source	: DC 14.4V (10.8 - 15.1V allowed)
Ground type	: Negative type

GPS antenna

Antenna	: Micro strip flat antenna/right-handed helical polarization
Antenna cable	: 5.0 m (196-7/8 in)

Dimensions

Main unit	: 178(W) × 50(H) × 178(D) mm (7 × 2 × 7 in)
GPS antenna	: 46(W) × 46(H) × 13(D) mm (1-3/4 × 1-3/4 × 1/2 in)
Remote controller	: 38(W) × 146(H) × 30(D) mm (1-1/2 × 5-3/4 × 1/8 in)

Weight

Main unit	: 1.5 kg (3.3 lbs.)
GPS aerial	: 130g (0.31 lbs.)
Remote controller	: 80g (incl. battery) (0.2 lbs.)

DVD mechanism part

REGION NUMBER	: 1
USABLE DISCS	: DVD-VIDEO/CD
SIGNAL FORMAT	
Sampling frequency	: 44.1/48/96KHz
Number of quantization bits	: 16/20/24 bit; linear
FREQUENCY RESPONSE	: 5~44,000Hz (± 1dB)
S/N RATIO	: 96dB (IEC-A NETWORK) 97dB (IEC-A NETWORK); CD
DINAMIC RANGE	
	: 96dB (1kHz) 95dB (1kHz); CD
DISTORTION	: 0.008% (1kHz)
OUTPUT LEVEL	
VIDEO	: 1Vp-p/75Ω
AUDIO	: 1mV (1kHz,0dB)
NUMBER OF CHANNELS	: 2 (STEREO)

Note:

- The specifications and design are subject to change without prior notice. The product purchased may differ in detail from illustrations in this manual.

Glossary

This glossary explains some of the terms used in the manual.

3D Hybrid sensor

The built-in sensor which enables the system to estimate your car's position. A learning function increases its accuracy and two sets of learning data can be stored in memory.

Address Book

A list of previously searched destinations, way points and locations registered manually.

CUE

A communication system for informing drivers about the latest various information. You can confirm information such as traffic jams or accidents on the screen.

Current location

The present location of your car; your current location is shown on the map by a red triangle mark.

Default setting

A factory setting which applies when you first switch on the system; you can change default settings to suit your own needs in the Settings menu.

Destination

A location you choose as the end point of your journey.

DVD-ROM

A disc used to store data.

Favorite location

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 way point along your route is indicated on the map by the yellow flag icon.

Home location

Your registered home location.

Joystick

The main control on the Remote Controller; it is used extensively to make selections from menus and to scroll the map display.

Menu

A list of options shown on the display; choices are selected using the joystick.

PC card

Card-type peripheral equipment mainly used for personal computers. The Navigation System can use a memory card to store data.

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.

Remote Controller

The remote control unit for the system (see "The Remote Controller" on page 23).

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 green on the map.

Tracking

Marks on the map indicating the route you have travelled.

Voice guidance

The giving of directions by a recorded voice while in guidance mode.

Voice recognition

The technology that allows the system to understand the driver's voice commands.

Way Point

A location that you choose to visit before your destination; a journey can be built up from multiple way points and the destination.

Display Information

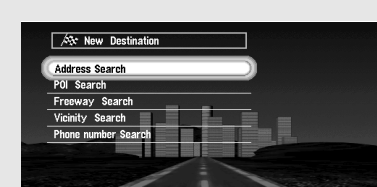
Main menu



- New Destination
- Address Book
- Return Home (P.51, 76)
- Go to ~ (P.51, 76)
- Settings
- Information

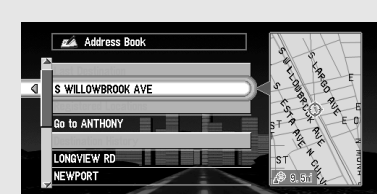


New Destination menu



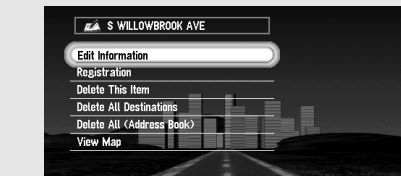
- Address Search (P.34, 53)
- POI Search (P.56)
- Freeway Search (P.59)
- Vicinity Search (P.57)
- Phone number Search (P.58)

Address Book menu



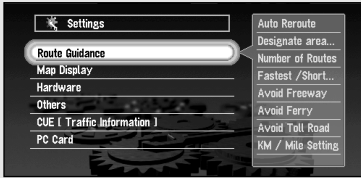
- Last Destination (P.71)
- Registered Location (P.71)
- Destination History (P.71)

Address Book operation menu

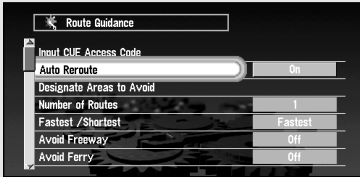


- Edit Information (P.73)
- Registration (P.71)
- Delete This Item (P.74)
- Delete All Destinations (P.74)
- Delete All (Address Book) (P.74)
- View Map (P.75)

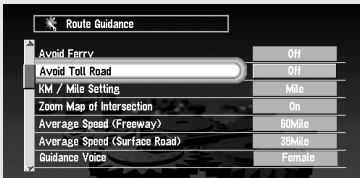
Settings menu



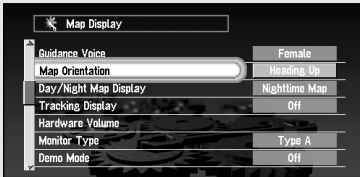
Route Guidance menu (1)



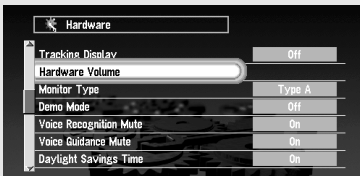
Route Guidance menu (2)



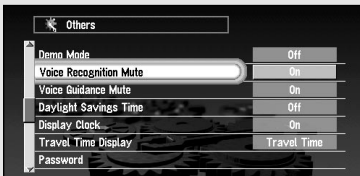
Map Display menu



Hardware menu



Others menu (1)



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 Map Display (P.98)
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 Others (P.98)
 CUE [Traffic Information] (P.100)
 PC-Card (P.87)

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 Designate Areas to Avoid (P.80)
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 Fastest/Shortest (P.50, 96)
 Avoid Freeway (P.50, 96)
 Avoid Ferry (P.96)

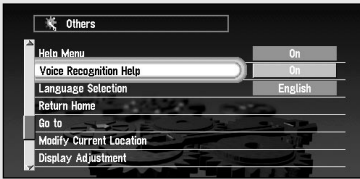
Avoid Toll Road (P.96)
 KM/Mile Setting (P.97)
 Zoom Map of Intersection (P.97)
 Average Speed (Freeway) (P.97)
 Average Speed (Surface Road) (P.97)
 Guidance Voice (P.97)

Map Orientation (P.98)
 Day/Night Map Display (P.98)
 Tracking Display (P.98)

Hardware Volume (P.98)
 Monitor Type (P.98)

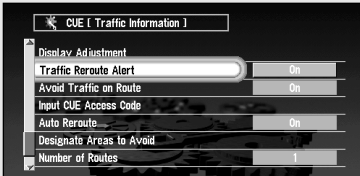
Demo Mode (P.98)
 Voice Recognition Mute (P.98)
 Voice Guidance Mute (P.99)
 Daylight Savings Time (P.29, 99)
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Modify Current Location (P.100)
Display Adjustment (P.100)

CUE [Traffic Information] menu



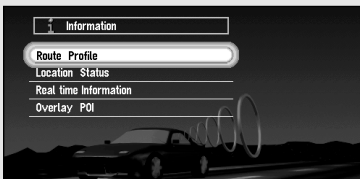
Traffic Reroute Alert (P.100)
Avoid Traffic on Route (P.100)
Input CUE Access Code (P.82, 100)

PC Card menu



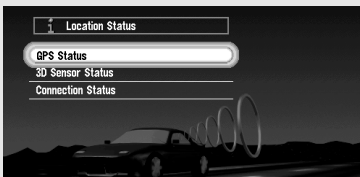
Save to PC Card (P.87)
Read from PC Card (P.88)
Delete PC Card Data (P.89)
Initialize PC Card (P.87)

Information menu



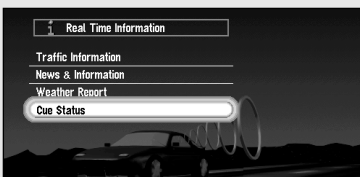
Route Profile (P.64)
Location Status (P.90)
Real time Information (P.82)
Overlay POI (P.69)

Location Status menu



GPS Status (P.90)
3D Sensor Status (P.91)
Connection Status (P.92)

Real Time Information menu



Traffic Information (P.82)
News & Information (P.84)
Weather Report (P.85)
Cue Status (P.86)



Appendix



MEMO

Write your registered password here; remove this page from the manual, and store it in a safe place.

CAUTION: Never leave any note of your password in your car.



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