

**Pioneer** *sound.vision.soul*

**Operation Manual**  
**(For remote controlled types)**

***ENGLISH***

**DVD Navigation Unit**

**AVIC-80DVD**

**DVD Map - USA / Canada**

**CNDV-21**

**READ ME FIRST!**

**To Users Updating the Application Program from AVIC-9DVD, AVIC-90DVD**

The application program of the AVIC-9DVD or AVIC-90DVD are updated by using the CNDV-21 update disc. Please read the cautions on the next page before updating. There is a slight chance that stored user-registered data will be lost upon completion of the update. Please be aware that the manufacturer cannot take any responsibility for lost data in the event data is lost.

**Cautions on Updating the Application Program of the Navigation System:**

- Stop the vehicle at a safe location. While updating of the program is in progress, ensure that the power supply of the Navigation System is not turned off.
- When program updating is completed, the Navigation System will be re-booted. After the system has booted up, make sure not to turn off the power supply for the Navigation System until the map of your surroundings appears.
- In the worst possible case, there is the risk of data in the Address Book being lost. It is therefore recommended to use a PC Card (PCMCIA TYPE II <5 V>) to back up Registered Location(\*) data. (Items contained in the “Last Destination” or “Destination History” cannot be stored on the PC Card. If you want to save these data, register them as “Registered Location”, then store them on the PC Card.)  
\*“Registered Location” data includes “Return Home” and “Go to” contents.
- Any existing calculated route would be cancelled. Each of the other settings returns to their factory settings.

**Application Program Updating Procedure:**

Update the application program by referring to “Installing the Program” on this manual.

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

# Introduction

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## ***Important Safety Information***

---

Before using your Navigation System, be sure to read and fully understand the following safety information:

- Read the manual before operating this Navigation System.
- This Navigation System is intended solely as an aid to you in the operation of your car. It is not a substitute for your attentiveness, judgment, and care when driving.
- Do not operate this Navigation System if doing so in any way will divert your attention from the safe operation of your car. Always observe safe driving rules and follow all existing traffic regulations.
- 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 for 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

---

This software can be used with the following models:  
AVIC-80DVD, AVIC-9DVD, and AVIC-90DVD.

### ■ **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 (USA) Inc.  
CUSTOMER SUPPORT DIVISION  
P.O. Box 1760  
Long Beach, CA 90801-1760  
800 421-1404

#### **CANADA**

Pioneer Electronics of Canada, Inc.  
CUSTOMER SATISFACTION  
DEPARTMENT  
300 Allstate Parkway  
Markham, Ontario L3R OP2  
(905) 479-4411  
1-877-283-5901

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

### **Product registration**

Visit us at the following site:

<http://www.pioneerelectronics.com>

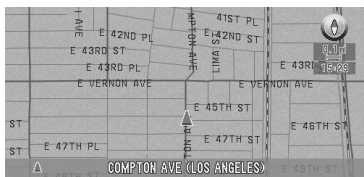
- 1 Register your product. We will keep the details of your purchase on file to help you refer to this information in the event of an insurance claim such as loss or theft.
- 2 Receive updates on the latest products and technologies.
- 3 Download owner's manuals, order product catalogues, research new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

### **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 92).



**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 ILL (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***

Only use the Pioneer Map disc with Pioneer DVD Navigation Unit. You cannot use other discs. DVD-Videos and CDs can be played on AVIC-9DVD and AVIC-90DVD. When using the AVIC-9DVD, refer to the DVD section in the “Operation Manual” provided with AVIC-9DVD. When using AVIC-90DVD, refer to the DVD section in the “Hardware Manual”.

### ***About the REAR DISPLAY OUTPUT on the AV Head Unit***

Images of the map screen of the navigation slightly differ from a standard NTSC style. If map screen of the navigation is output from Rear monitor output on AV Head Unit, the images may not be displayed properly depending on the display.

## Features of Your DVD Navigation System

### ***A “chip specifically for the positioning accuracy” and “3D Hybrid Sensor” are fitted. High precision navigation can thus be achieved.***

Fitting a chip specifically for positioning accuracy capable of determining the position of your car, has further enhanced its high precision features. In addition, 3D Hybrid Sensor installed in this unit calculates the distance covered by your car precisely, taking into consideration the contour of the road (hills).

### ***Location precision is further improved by “map matching” function.***

Location precision is further improved by the exploitation of information from several GPS satellites and a map matching function.

### ***Display of various guidance screens***



### ***Integration between navigation and audio has been implemented.***

Pioneer’s audio equipment can be used with the navigation screen, by addition of the AVH-P6400CD or AVH-P6400 display sold separately. Furthermore, not only is conventional voice operation for navigation possible, but also voice operation of AV equipment became possible.

### ***Background image can be changed.***

You can choose the image to display on the background of the screen during the navigation operation or while playing audio. You can also select from preset images for the display while playing audio.



### ***A far greater number of data are added to the database for search.***

You can search your destination from 10 million items by Phone number search or 2 million items by the others.

Furthermore, to achieve easier operation of Phone number search, direct input with the numeric keypad of the Remote Control became possible.

## ***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. 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.

#### **2. 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.

#### **3. 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.

#### **4. Utilizing Various Information**

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

#### **5. Customizing Your Navigation System**

The behaviour 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.

#### **6. Combining and Using Pioneer AV Equipment**

If the Pioneer display, "AVH-P6400CD" or "AVH-P6400", and Pioneer audio equipment are connected to your Navigation System, you can operate the audio equipment using the Remote Control of your Navigation System. This chapter describes the basic audio operation and how to operate audio with voice.

#### **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.

#### **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.

### **■ Operation of DVD player**

The method of operating DVD player is slightly different between the built-in DVD player of AVIC-9DVD, AVIC-90DVD and the Pioneer DVD player. See the following manual and section for the detailed difference of operation:

- Operation manual of the DVD player
- DVD Operation Reference Table (end of this manual)



## ■ 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 Control 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.

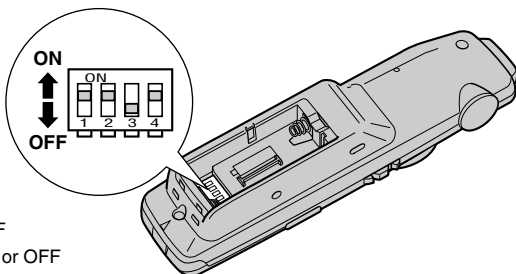
## ■ For “AVIC-9DVD” users

This manual describes the operation based on the Remote Control “CD-R11”. If you use “AVIC-9DVD”, some button names of the Remote Control may be different from this manual.

If you use AVIC-9DVD, check the operation of your Remote Control by referring to “Dipswitch settings for AVIC-9DVD” and “About the difference in the operation of the Remote Control” below.

## ■ Dipswitch settings for AVIC-9DVD

Set the dipswitches as following.



- Switch 1: ON
- Switch 2: ON
- Switch 3: OFF
- Switch 4: ON or OFF

## ■ About the difference in the operation of the Remote Control

If the Remote Control included with AVIC-9DVD is used, there will be the following changes in operation:

### Using PGM Function

You can use the PGM Function. However, even if the Operation mode switch is set to “DVD”, you cannot turn the DVD power On/Off.

### Starting voice operation

Press the joystick while the Operation mode switch is set to “NAVI”. (It is canceled if the mode is set to “DVD”).

### Switching screen display (display of frequency, etc.)

You cannot do this with the Remote Control included with the AVIC-9DVD. If the AV Head Unit is combined, you can do this with the AV Head Unit.

### Playing the Built-in DVD player

Press the control stick while the Operation mode switch is set to “DVD”.

**Frame by frame playback and slow motion playback**

Push the control stick up while the Operation mode switch is set to “DVD”.

**Reverse frame by frame playback and reverse slow motion playback  
(in case of XDV-P9 and XDV-P90)**

You cannot do this with the Remote Control included with AVIC-9DVD. However, you can operate this function using the Remote Control included with the DVD player or the AV Head Unit.

**Switching DVD information screen (Built-in DVD player only)**

Press the Display button (CANCEL ROUTE button) while the Operation mode switch is set to “DVD”. The display switches over as you press the button.

## Installing the Program

---

The program is installed to the main unit of the Navigation System using the disc sold separately. This is not necessary if your dealer already performed the installation. Go to Chapter 1 onward.

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.

### **Caution**

---

**If you are using AVIC-90DVD or AVIC-9DVD, you cannot restore the condition before a version upgrade once you perform a version upgrade using a version upgrade disc (CNDV-21). You should also note that you can no longer use the discs included in the set of this Navigation System.**

---

**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.**

If updating the version from “AVIC-90DVD” or “AVIC-9DVD”, the installation of the updated program will start immediately.

### **Caution**

---

**Once the installation of the program starts, do not stop the engine of your car and switch off the Navigation System until the installation is completed and the map of your surroundings appears.**

---

**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.

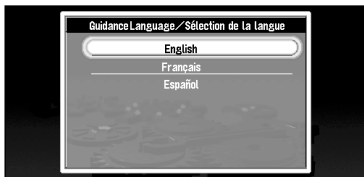
English is the default language of the Navigation System. If desired, you can select another language.

☞ 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.

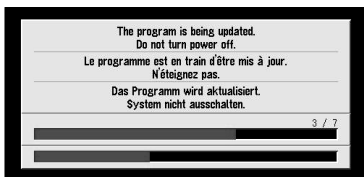
The list of the languages you can use appears. Move the joystick up or down to highlight the language you want.



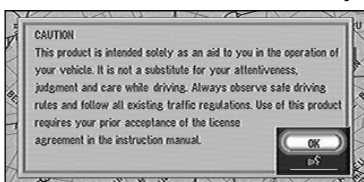
#### 5 Click the OK button.

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.



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

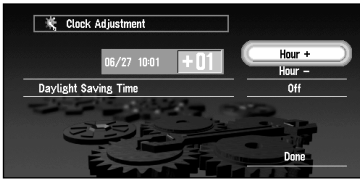


↪ If the screen above is not displayed, press the NAVI/AV button to display the screen.

#### 7 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.



**8 If necessary, set to summer time.**

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



**9 Select “Done” and click the OK button.**



The map of your surroundings appears.

This completes the setup of your Navigation System. Chapter 1 explains the basic operation of your Navigation System.

➤ To change the language and time later, see Chapter 5 “Customizing Your Navigation System”.



## Basic Operation

### Switching On and Off

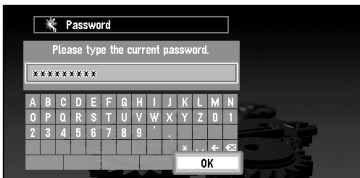
#### Switching On

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, then the map of your surroundings appears. Now you can 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 “Auto Voice Recognition” (see “Auto Voice Recognition” on page 93) is set to “On”, the automatic voice recognition is engaged each time the car is started.
- ☞ When “Auto Voice Recognition” is set to “On”, you can also say “OK” into the microphone and display the map of your surroundings.

#### 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 can also enter your password using numeric keypad of the Remote Control.) 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 74.
- ☞ When “Auto Voice Recognition” is set to “On”, you can speak a password into the microphone instead of entering it using the Remote Control.

#### 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.

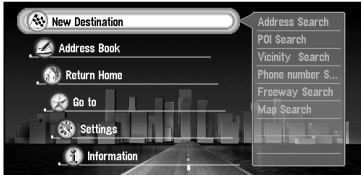
# Types of Menu

---

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 42).

### **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 2 and 4).

### **Return Home**

Set your home as your destination and your route is calculated (see Chapter 2).

### **Go to**

Set your favorite location, such as your workplace, as your destination and your route is calculated (see Chapter 2).

### **Settings**

Customize the functions of your Navigation System for your own selections (see Chapters 4 and 5). When using PC card, you use this menu (see Chapter 4).

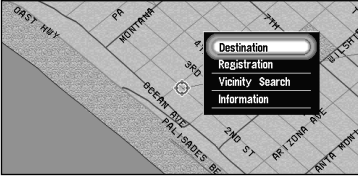
### **Information**

To get information such as the condition of the navigation, you use this menu (see Chapter 4).



## ■ 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 Main menu.



### **Destination**

You select the destination with cross pointer and the route is set (see “Finding a destination on the map” on page 42). 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 4).

### **Vicinity Search**

You select a location with cross pointer and POIs (Points Of Interest) nearby are found. “Vicinity Search” in the Shortcut menu searches the area around the cross pointer. On the other hand, in the case of “Vicinity Search” in the search method selection menu, displayed when selecting “New Destination” in the Main menu (see “Finding POI in your surroundings” on page 52), your surroundings will be searched.

### **Information**

You select a location with cross pointer and information about the location appears. (See “Viewing the information of specified location” on page 41.)

## **Basic Navigation**

---





This section describes basic navigation, such as how to select menu items, using setting your destination as an example. Based on the information you know about your destination, your Navigation System searches for your destination on the map, and calculates the route.

### **Caution**

---

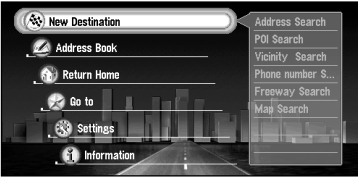
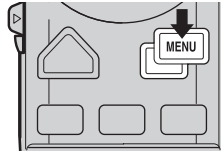
**For safety reasons, you cannot use these functions while your car is in motion. Stop and put the parking brake on before use.**

---

1. Press the MENU button and display the Main menu.  
See “Operate navigation by indicating menu” on page 33.  

  2. Select “New Destination” from the Main menu.  

  3. Select the method of searching for your destination.  
See Chapter 2.  

  4. Enter the information about your destination.  
See “How to use the text palette” on page 35.  

  5. Your Navigation System sets the route to your destination, and the map of your surroundings appears.  
See “When the route calculation to your destination is completed” on page 36 and “How to Use the Map” on page 37.
- ☞ For the details of route guidance after your destination is searched and the route is set, see Chapter 3.

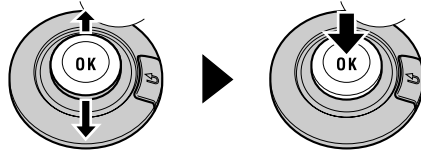
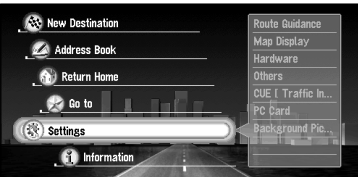
## ■ Operate navigation by indicating menu

While the map is displayed, if you press MENU button, the Main menu of the Navigation System 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.

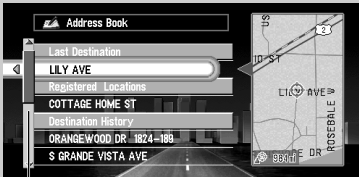
Move the joystick up or down while the menu is indicated. As you move the joystick, the item being highlighted also changes. When the item you want is highlighted, click the OK button.



If the selected item is sub-divided into more detailed menus, click the OK button to indicate the submenu.

***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 control up and down.)



scroll bar

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

If you move 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 31), and you can select the location displayed as your destination. In the case of the Address Book, the Address Book operation menu is displayed.

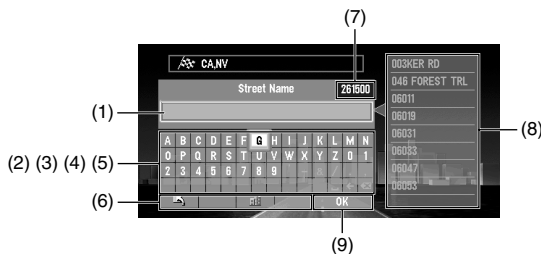


***If the arrow is indicated on the right side of the item***

If the list of the candidates indicated in the middle of a destination search cannot be displayed on one screen, an arrow is displayed to the right of the item. If you move the joystick to the right, you can confirm the whole line. If you move the joystick up or down, you can return to the original display screen.

## How to use the 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 each letter, your Navigation System narrows down the possible items, 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 each of these buttons, the functions assigned to that 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 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.
- ⌚ While entering characters, if there is only one possible character following the next, that character is automatically entered.

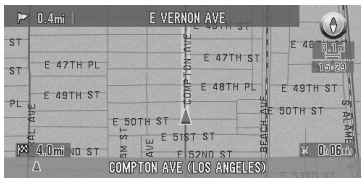
### **Entering letters using numeric keypad of the Remote Control**

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.

- ☞ If you press the numeric keypad while a screen other than the screen for entering characters is displayed, a telephone number entry screen (see page 53) appears.

### **■ When the route calculation to your destination is completed**

When your destination is set (see Chapter 2) and the route calculation is completed, 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.



- ☞ 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 65).

### **■ 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 out 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 used to using the Navigation System, you can opt that the help messages are not provided. For details, see "Help Menu" on page 94.

# 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.

There are four types of map display. You can switch the indication method of the map by clicking the OK button.

- Map View
- Driver's view
- Arrow View (during route guidance only)
- Guide View (during route guidance only)

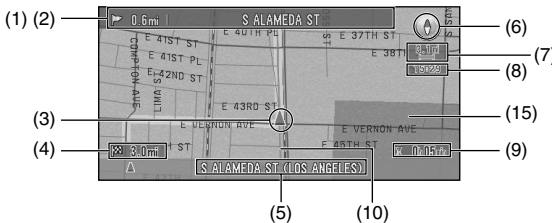
☞ When "Close-up of Intersection" (see "Close-up of Intersection" on page 91) is set "ON", an enlarged map showing the area around a intersection appears as you approach the intersection.

### Caution

**In Driver's view, the speedometer 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.**

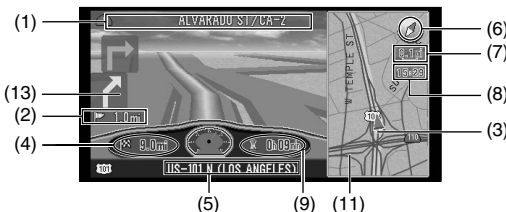
### Map View

The map of your surroundings is shown.



### Driver's view

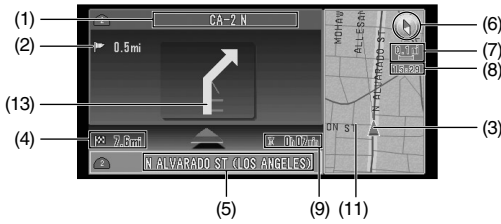
The map from the driver's viewpoint is shown.



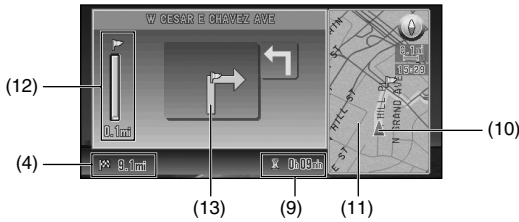
## Arrow View

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

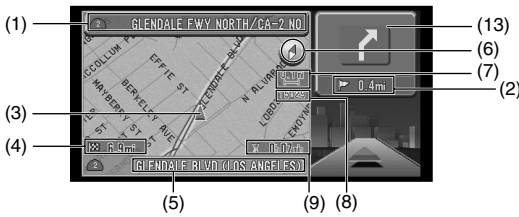


### When approaching an intersection (When “Close-up of Junction” is off)



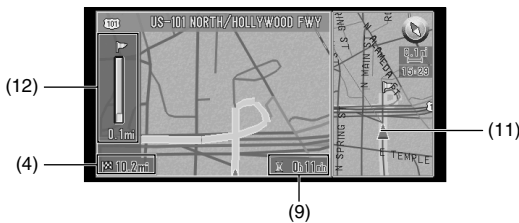
## Guide View

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



## Enlarged map of the intersection

When “Close-up of Junction” in the “Settings Menu” is on, an enlarged map of the intersection appears.





** 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.\***

If there is a number on a road, the number will be indicated next to the name of the road (only when the road numbers are recorded in the disc).

**(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**

If there is a number on a road, the number will be indicated next to the name of the road (only when the road numbers are recorded in the disc).

**(6) Compass**

The red arrow shows North.

**(7) Map scale indicator**

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

**(8) Current time****(9) Estimated time of arrival (or travel time to your destination)\*****(10) Tracking mark**





The tracking mark shows the route your car has traveled.

**(11) Map of your surroundings****(12) Distance to an intersection\***

It is displayed in Arrow View and enlarged map of the intersection. The green bar gets shorter as your car approaches an intersection.

**(13) Next traveling direction\*****(14) Area to Avoid\***

This is indicated only when "Display Area to Avoid" is set to On. For details, see "Setting Areas to Avoid" on page 75 and "Display Areas to Avoid" on page 92.

-  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 94.
-  You can select the method of deleting tracking mark. For the details, see "Tracking Display" on page 92.
-  Tracking display shows about 125mile (200km) tracking of your car with a white dots. When your car speed is under 3mile/h (5km/h), the dots are red. When your car speed is more than 3mile/h (5km/h), but less than 12mile/h (20km/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 control up or down, you can change the scale of the map through 16 levels:

25yd, 50yd, 100yd, 0.25mi, 0.5mi, 0.75mi, 1mi, 2.5mi, 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 up or down the scale control, you can zoom in or out in smaller increments.



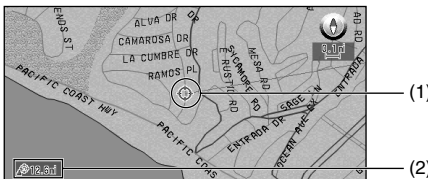
When you want to see smaller streets with a more detailed map



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 Control 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.

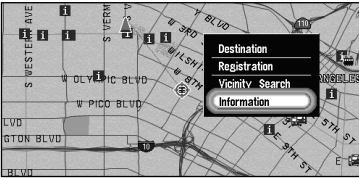
### (2) Distance from the current location

The distance in a straight line between the location pointed by cross pointer and the current location is shown.

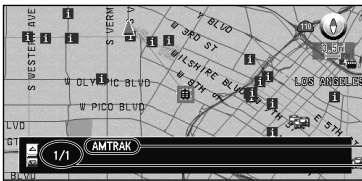
## Viewing the information of specified location

You can check details of the current location or of the location pointed by the 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 control up or down, other information appears. (There may be no information for that location.)



Information of the mark  
Number of information items you can check

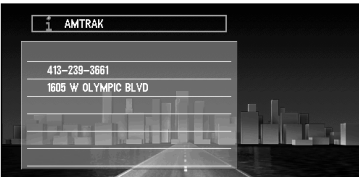
### Types of information :

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 63)

- 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***

If you search the location you want to visit by scrolling the map, and select “Destination” in the Shortcut menu, you can specify your destination on the map.

**1 Press the NAVI button.**

The map display appears.

➤ You can also display the map by selecting “New Destination”, then “Map Search” on the Main menu.

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

The Shortcut menu appears.

**3 Select “Destination” and 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.

**4 Switch between multiple items of information by turning the scale control up or down.**

**5 Click the OK button.**

Route calculation starts.

## Setting a Route to Your Destination

### Before setting your destination and route

There are several methods for search for your destination, the operations common to each method will be explained in this section.

#### Caution

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

- If you press the BACK button during route calculation, the calculation is canceled 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 61 and “Cancelling the Route Guidance” on page 60.
- 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 3.
- By using the Settings menu, you can change the conditions for route calculation. For the details, see Chapter 5 “Route No.”, “Fastest / Shortest”, “Avoid Freeway”, “Avoid Ferry”, “Avoid Toll Road” on page 90.

## ■ **Selecting the area where you want to search**

Information on the disc is arranged by area. When searching for your destination, your Navigation System searches for it in the area currently selected. Therefore, if your destination is in another area, you must change the area setting before starting the destination search. (Once the area is selected, the Navigation System searches the destination in that area until the setting is 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 previous 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**

You can get route calculations of several route options. By confirming route options on the screen, you can select your favorite route. After route options are calculated, select the one you want.

- 1 **Change the setting of “Route No.” in “Settings” menu.**

For the details of the method of changing the setting, see “Modifying the Default Settings” on page 89 and “Route No.” on page 90.

- 2 **Search your destination and set the route.**

Calculated routes are shown in different colors (from two to six routes).

**3 Move the joystick to select the route.**

The list of the routes being calculated is displayed on the left side of the screen. On the bottom-left of the screen, the information on the route currently selected is shown.



1, 2, 3

The following information is displayed on this screen:

1. Use/avoid freeway
2. Distance to your destination
3. Travel time to your destination

- You can set whether to use toll road or ferry. The set contents will be reflected to all the route options. For details, see “Avoid Toll Road” and “Avoid Ferry” on page 90.
- Route options are indicated in the order of matching the set conditions in “Avoid Freeway”.
- Even if the use of freeway is set in “Avoid Freeway”, the route without using a freeway may be calculated (if your destination is close to your current location and the route cannot include a freeway).

**4 Check the information displayed on the screen.**

You can also check details of the roads along the selected route. If you move the joystick to the left, the screen for selecting the confirmation method appears. (If you press BACK button, you can return to the previous display.) For details of the operation after this step, see “Checking the Set Route” on page 55.

**About the route condition**

When the calculation of only one route is set, you can search a route option by combining the following conditions (for the details of how to set the calculation conditions, see “Fastest / Shortest” on page 90 and “Avoid Freeway” on page 90. For example, when “Shortest” and “Avoid Freeway” (“On”) are combined, the route, which avoids freeway, and has the shortest travel time, will be calculated and displayed on the screen.

**Condition 1 :whether to put priority on the distance, or time**

**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.

**Condition 2 :whether to use freeway or not**

**Avoid Freeway :** Calculate a route that avoids freeway. (A route using the freeway may be set if your destination is far away.)

## 5 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 route selected at the time is automatically chosen.
- It may take some time until detailed information of the route can be checked after a route calculation.



## ***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 71. 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>.”

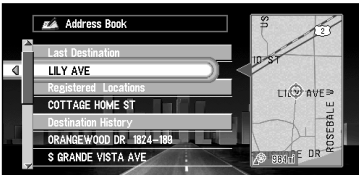
## ***Selecting your Destination from the Address Book***

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 65.

## Searching for your Destination by Address

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You can specify the address of your destination. The route to a specific intersection or street, or to the central part of the city, can be also calculated. (For the details of the operation, see “Basic Operation” on page 29. )

- 1 From the Main menu, select “New Destination” and then select “Address Search”. Click the OK button.**
- 2 Enter the street name.**  
For example, for “West Higgins Road”, you can just enter the part of the name, such as “Higgins”.



If there are several streets with the same name, a screen will appear to enter the name of the city or settlement where the specified street passes through.  
When there are no other streets with the same name, proceed to Step 6.

You can select following item:

**City :** The screen to enter the name of city or settlement appears.

- If necessary, change the area setting. For the details, see “Selecting the area where you want to search” on page 44.
- If the street has house number with a prefix, such as “16W”, the screen to enter prefix appears. After entering the prefix, proceed to step 6.

**Searching your destination after specifying the name of city or settlement**

You can narrow down the searching candidates by initially specifying the name of city or settlement where your destination is located.


After entering the name of city or settlement, select the name of city or settlement you want from the list. The previous display appears again.



You can select the following items:

**City History :** In the selected area, you can check the list of the cities or settlements, which you have searched in the past. (If you select the area where you have never searched cities before, you cannot select this item.)

**Nearby City :** You can view the list of the cities or settlements near the current location.

- ☞ If necessary, change the area setting. For the details, see “Selecting the area where you want to search” on page 44.
- ☞ After specifying the name of city or settlement, you can chose the  “City Centre” instead of entering the street name. The central part of the city selected becomes your destination when starting route calculation.

**3 Select the street from the list and click the OK button.**

**4 Select the city or settlement where your destination is located, and click the OK button.**

If there are several cities or settlements corresponding to the contents entered, the list of the city or settlement appears.

This screen is not displayed if the street selected is in one city or settlement. Proceed to Step 5.



- ☞ If the selected street is very long, and passes through several cities or settlements, the screen to enter the name of city or settlement appears.

**5 Select the area where your destination is located, and click the OK button.**

If the specified road is relatively long, and passes through several areas of the city or settlement, the list of the area appears. If the road is short, the list will not be displayed. Proceed to Step 6.

☞ If the street has house number with a prefix, such as “16W”, the screen to enter prefix appears. After entering the prefix, proceed to step 6.

**6 Enter house number.**

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 Point :** 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.

**View Map :** You can view a map of the location matching to the house number entered. (When you can enter the house number : If there is no complete match with the entered house number, the list of the candidate house number areas is displayed. When you cannot enter the house number (all the numbers appear in grey) : You can display the map of the well-known point on the street. ) You can scroll the map to show the Shortcut menu (see “Shortcut menu” on page 31), then to set the location as your destination.

☞ If there are several locations corresponding to the entered house number, or there is no house number in that location, a list of the 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.

**7 Click the OK button.**

Route calculation starts.

# Finding Your Destination by Selecting the Type of Facility

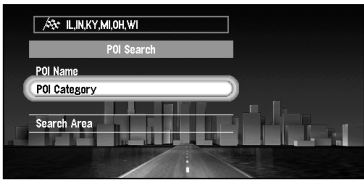
Information about various facilities (Points Of Interest - POI), such as gas stations, amusement parks or restaurants is available. By selecting the category, you can search for a Point Of Interest.

## ■ 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 selecting a search method appears.

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

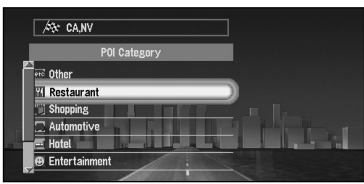


If you already know the name of the facility, select “POI Name” and click the OK button, then proceed to Step 5.

☞ If necessary, change the search area setting. For the details, see “Selecting the area where you want to search” on page 44.

- 3 **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 the category is not sub-divided into more detailed categories, the list will not be displayed. Proceed to Step 5.

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

The display for entering the name of the POI appears.

- 5 **Enter the name of POI and select “OK”. Click the OK button.**



- You can also narrow down the search range by initially specifying the name of city or settlement where your destination is located. For details, see “Searching your destination after specifying the name of city or settlement” on page 49.
- If you select “Show All” and click the OK button, the list of all the facilities included in the category you selected appears.

**6 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**

You can search for Points Of Interest in your surroundings 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.

- Searching range is approximately 10miles (16km) square from the current location or the location pointed by cross pointer.
- When the calculation is completed, POI around the specified location are shown on a map.
- “Vicinity Search” in the Main menu searches your surroundings. On the other hand, in the case of “Area Search” in the Shortcut menu (see “Shortcut menu” on page 31), the area around the cross pointer will be searched.

## ***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.**
- ☞ If you press the numeric keypad while a map screen is displayed, a telephone number entry screen appears.
- 2 **Enter the telephone number and select “OK” and click the OK button.**



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

- ☞ 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. A hyphen is automatically inserted after the third digit and the sixth-digit are entered. Also, you do not need to enter country code at the beginning of the telephone number.
  - ☞ 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, detailed information for the selected category appears.  
If you click the OK button, route calculation starts.

## ***Setting an Entrance or Exit of a Freeway as Your Destination***

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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 “Selecting the area where you want to search” on page 44.

- 2 Enter the name of the 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.



## Checking the Set Route

You can check information about the route between your current location and your destination. You can select two methods: checking the passing streets with a list; and checking the shape of the route by scrolling the map along the route.

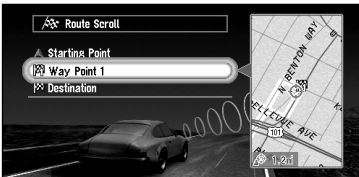
This function is not available if your car is away from the set route.

### Caution

**This function is not available if your car is away from the set route.**

### ■ Checking the set route with the map

- 1 **Press the DETOUR button on the Remote Control for more than two seconds.**  
The screen to select the checking method appears.
- 2 **Select “Route Scroll” and click the OK button.**  
The screen to select the point to start scrolling appears.
- 3 **Select the point to start scrolling, and click the OK button.**



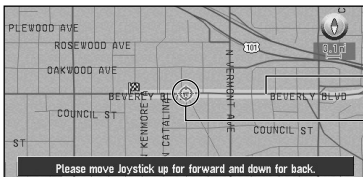
You can select the following items:

- Place of departure
- Way point (If this is set. Way points already passed cannot be selected.)
- Destination

- 4 **Move the joystick up or down to scroll the map.**

Change the scale of the map as necessary. If you move the joystick upward, you can scroll the map forward, while moving it down scrolls the map backward.

If you press down the joystick and hold for more than three seconds, you can scroll the map continuously. When the cursor reaches the departure point, waypoints or your destination, scrolling stops. To start scrolling again, press down the joystick and hold for more than three seconds. To stop scrolling, move the joystick to the opposite direction.



Current Route

Cross Pointer

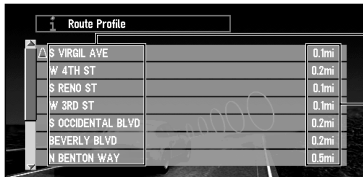
Please move joystick up for forward and down for back.

- 5 **Press the BACK button.**

You can return to the previous display.

## ■ **Checking the set route with text**

- 1 Press the DETOUR button on the Remote Control for more than two seconds.**  
The screen to select the checking method appears.
- 2 Select “Route Profile” and click the OK button.**
- 3 Check the contents on the display.**  
As necessary, move the joystick up or down to scroll the list.



Route Profile		
S VIRGIL AVE		0.1mi
W 4TH ST		0.2mi
S RENO ST		0.1mi
W 3RD ST		0.1mi
S OCCIDENTAL BLVD		0.2mi
BEVERLY BLVD		0.2mi
N BENTON WAY		0.5mi

Name of the streets you drive through

Driving distance

- 4 Press the BACK button.**  
You can return to the previous display.

➤ 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.)

## ■ **Checking the set route from the Information menu**

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

- 1 Select “Information” from the Main menu, then “Route Information”. Click the OK button.**  
The screen to select the checking method appears.
- 2 Select the checking method.**
- 3 Check the contents on the display.**
- 4 Press the BACK button.**  
You can return to the previous display.

## 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
- Traveling 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 Control to listen to it again.

#### Display during the route guidance

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

☞ For the details of viewing the display, see “How to Use the Map” on page 37.

☞ 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 “Close-up of Intersection” on page 91.

### ***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 5.

- If “Auto Reroute” is set “Off” and the display is in modes except “Map Mode” and “Driver’s View”, when you stray from the route, the display automatically switches to “Map Mode” and a map of your surroundings appears.
- 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 View”.

### ***If you stop during the route guidance***

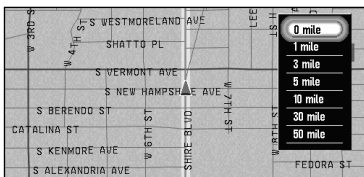
If you stop at a gas station, or a restaurant during the route guidance, your Navigation System remembers your destination and route information. When you start your car engine again, the route guidance resumes from your current location.

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.

# Recalculating the Route to Your Destination

You can recalculate the route to avoid a traffic jam 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 Control.
- 2 Select the distance from the list, and click the **OK** button.



On this display, you can select the following items:

- 0mi/km :** The route from the current position to your destination is recalculated.
- The distance of the detour : (1-50mi/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/ 50miles (1/ 2/ 5/ 10/ 20/ 50kilometers). For details of switching the display between "mi"(miles) and "km", see "KM / Mile Setting" on page 91.

## ***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:

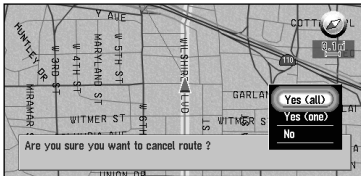
### **■ Delete the current route, and cancel the route guidance**

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 Control.**

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 selected way point.

**No :** Route will not be canceled.

### **■ Changing your destination**

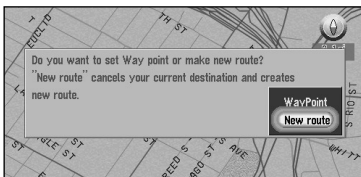
If you want to change your destination during the route guidance, search the new destination, and set the route.

**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 a 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

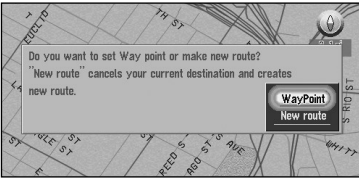
You can set up to five way points. This is achieved as follows :

### 1 Specify the location you want to visit.

You specify a way point in the same way as you specifying a destination (see Chapter 2). You can also scroll the map to display the Shortcut menu (see “Shortcut menu” on page 31), 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.

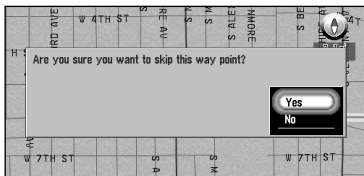
On this display, you can select the following items:

- Add :** You can add more way points. Repeat the procedure from Step 2 above (you can add up to five way points).
- ☺** You can select the locations registered in the Address book, your home or your favorite location as way points.
- 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 Control 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.**

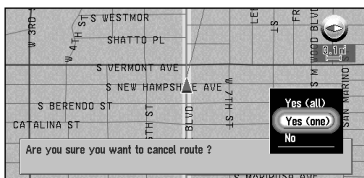


A new route to your destination through all the remaining way points, except for the skipped way point, is calculated.

## ■ **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 Control.**  
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.**

↻ 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 via 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.



- a 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 “OK” and click the OK button to return to the list of POI category.

- 3 **When you have finished selecting categories, select “OK” and click the OK button.**

POIs in the selected category appear on the map.

- a 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 31). Information around the cross pointer appears at the bottom of the screen. Use the scale control 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.

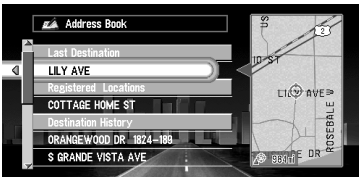
- **Last Destination** - the destination whose route was set most recently.
- **Destination History** - destinations and way points you have searched in the past.
- **Registered Locations** - a manually registered location, such as your home, your favorite location, or a location whose information was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

### ■ Registering a previous location in the Address Book

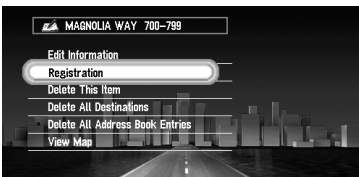
Once searched, destinations or way points are automatically memorised and stored in the Address Book as Destination History. When the number of locations exceeds 298, the oldest location is overwritten automatically. Therefore, to ensure that a particular location is kept in the Address Book, you must register it manually as one of your 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.

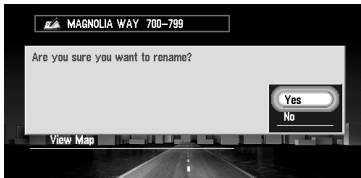


- 3 Select “Registration” and click the OK button.



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 enter a new name between 6 and 23 characters long. (For the details of entering characters, see “How to use the text palette” on page 35.)



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 298 locations, except your home and your favorite location.
- When you change the name, a mark is shown on the left side of the location name displayed in the Address Book menu. This mark indicates that this name can be used as a voice command during voice operation.
- During voice operation, you can get a route calculated by saying the registered name. For the details of voice operation, see Chapter 7.
- If you register a location by selecting “Register” from the Shortcut menu, select “Edit Name” and perform the operations in step 5 and 6; you can get a route calculated by saying the registered name.
- 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 79).



## ***Entering or changing a phone number***

- 1 Select “Edit Phone Number” 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.
- The telephone number entered or changed here will be saved as data specifically for the Address Book. You cannot search your destination even if you enter this telephone number.

## ***Selecting a pictograph to appear on the map***

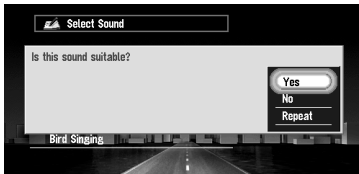
- 1 Select “Select Image” and click the OK button.**
- 2 Select the Pictograph; select “Done”, and click the OK button.**

The Address Information menu appears.

- You cannot change the mark of your home or of your favorite location.

## ***Selecting sound***

- 1 Select “Select Sound” and click the OK button.**
- 2 After selecting the sound, 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:

- |  |   |
|--|---|
| <b>Delete This Item :</b>                | Delete the location selected in Step 1.                                       |
| <b>Delete All Destinations :</b>         | All the items stored in Last Destination and Destination History are deleted. |
| <b>Delete All Address Book Entries :</b> | 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:

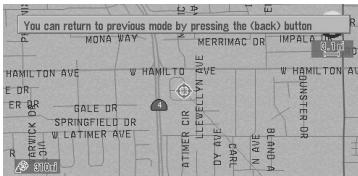
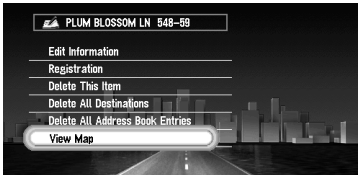
**No :** The display shown in Step 2 appears.

- ☞ Because deleted data cannot be restored, take extra care not to select “Delete All Destinations” and “Delete All Address Book Entries” 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.



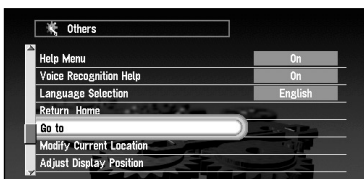
## Registering Your Home and Your Favorite Location

By registering your home and your favorite location, you can easily calculate the route by single press of a 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

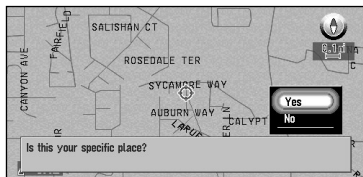
Before you can search for a route home or to your favorite location, you must first register the location. Registering your favorite location for the first time is described here. You can change the registered information later.

- 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.

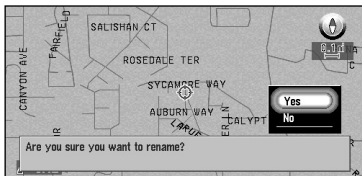
- When registering your home location, select "Return Home" and click the OK button.
- 2 **Search for a location and display a map.**  
The search method is the same as that for your destination (see Chapter 2).
    - If you select "Map Search", you can specify the location to register by showing a map.
    - You can also register the items included in the Address Book.
  - 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 control up or down. After selecting the item, click the OK button.
  - 4 **Select "Yes" and click the OK button.**



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

- If you select "No", you return to Step 3.
- 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 registered name. For the details of voice operation, see Chapter 7.

## ■ Changing or deleting your home or your favorite location

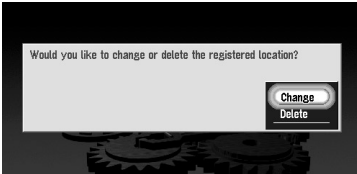
Changing your favorite location is described next.

- 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.

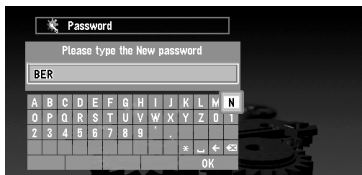
## Registering a Password

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 29.)

- 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 “Auto Voice Recognition” in the Settings menu is turned ON, the Navigation System will be ready to perform voice recognition when booted next time, and all the operations including entering password and route calculation, can be performed with voice. For details, see “Auto Voice Recognition” on page 93 and “Operating by only voice when the Navigation System is started” on page 156.
- 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 “Display Areas to Avoid” is set to Off, route calculation will be performed without considering Area to Avoid. If you want a route calculation with considering Area to Avoid, set “Display Areas to Avoid” to On. For details, see “Display Areas to Avoid” on page 92.

### ■ 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 “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.

- ⌚ When “Display Areas to Avoid” is set to On, if you perform the above operation, the message confirming whether to recalculate the current route is displayed. Select “Yes” and click the OK button, then 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 2). 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.
- ⌚ You can also register the items included in the Address Book.

- 4 Move the scale control 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 0.4 square mile (100 square kilometers).

- ⌚ When setting the Area to Avoid, operate with the scale of the map between 0.02mi (25m) and 0.75mi (100m). With other scale ranges, you cannot to 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 areas is registered as an Area to Avoid.

If the route is not set, the display shown in Step 2 appears. The name of the specified place appears in the list.

If the route is set, only when “Display Areas to Avoid” is set to On, the map of your surroundings appears.

- 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 173.
- ↳ You can indicate the set Area to Avoid on the map, and take it into account when calculating a route. For details, see “Display Areas to Avoid” on page 92.

## ■ Changing or deleting an Area to Avoid

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

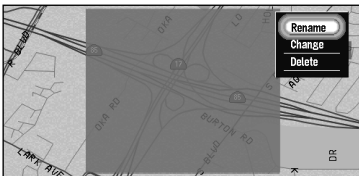
**1 Select “Settings” in the Main menu, then select “Route Guidance” and “Areas to Avoid”. Click the OK button.**

The list of Areas to Avoid appears.

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

↳ When “Display Areas to Avoid” is set to On, if you perform the above operation, the message confirming whether to recalculate the current route is displayed. Select “Yes”, click the OK button, and proceed to the next step.

**3 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 :** A specified area can be changed. For the next steps, see Step 2 onwards in the “Registering an Area to Avoid” above. (If the route is set, the map of your surroundings appears once the route has been recalculated.)
- Delete :** Delete the selected Area to Avoid. (If the route is set, the map of your surroundings appears once the route has been recalculated.)

## 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.

You can store the following information on a PC Card:

- Locations registered manually such as your home, your favorite location, or the location in whose information was edited (Registered Locations)
- Background image when navigation or audio is operated.

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

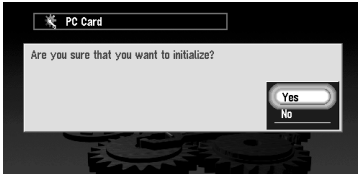
### ■ Initializing a PC card

- 1 **Select “Settings” in the Main menu, then select “PC Card ” and “Initialise 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”.)



- 2 **Do not stop the engine until initialization of the PC card is complete.**



## ■ Storing the data of registered locations in the PC card

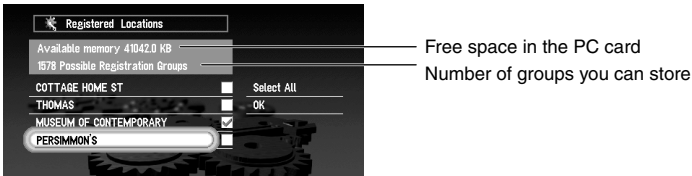
You can select any item registered in the Address Book and store the data in the PC card. Data can be stored in the corresponding group. A new group can also be created. (However, if nothing is registered in Registered Locations in Address Book, you cannot use this function.) This section describes a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

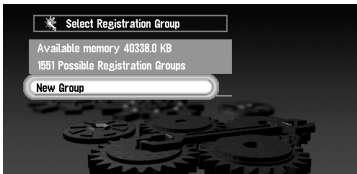


The selected item is checked. To register other locations, repeat this step.

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.

☞ 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 300 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.

- ↳ If there is little or no space in the PC card or you have already stored 300 locations in a group, a message, “Memory is full”, or “You cannot store more than 300 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.)

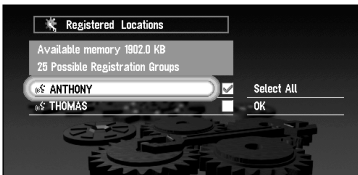
- 1 Select “Settings” in the Main menu, then select “PC Card ” and “Read from PC Card”. Click the OK button.

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** : All the locations are selected at once.

- 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 300, 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.



## Changing Background Picture

In the menu operation screen, you can indicate a picture you like on the background. Some pictures are already stored, but you can also use pictures (JPEG format data) created by a personal computer or a digital camera. The following two types of background pictures can be changed:

- AV Background : Background for the screen during the operation of audio, or during play-back
- Navigation Background : Background of navigation menu screen

Here, a method of changing background picture is described with an example of saving the picture stored in a PC card to the background picture of the navigation.

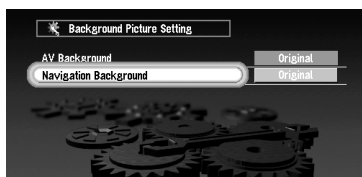
- ☞ When storing original pictures in a PC card, create a folder named "BG" in a PC Card, and store the picture files in this folder. In the "BG" folder up to 20 pictures can be stored.

### ■ Select a picture stored in PC Card

- 1 Insert a PC Card to the main unit.
- 2 Select "Settings", "Background Picture Setting" from the Main menu, and click the OK button.

Background Picture Setting menu is displayed. The picture selected at each screen is indicated on the right side of "AV Background" and "Navigation Background" items.

- 3 Select "Navigation Background" or "AV Background" and click the OK button.



- 4 Select "Import from PC card" and click the OK button.

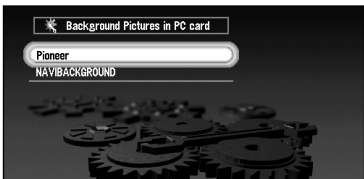


The list of the pictures stored in a PC card is displayed.

On this screen, you can select the following item:

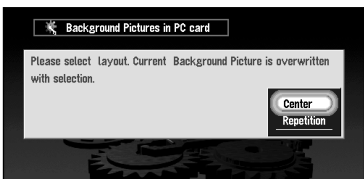
**Back to Original** : The picture when purchased is selected.

5 Select a picture you want for the background, and click the OK button.



The message asking how to arrange the image is indicated.

6 Select a way of arranging the picture, and click the OK button.



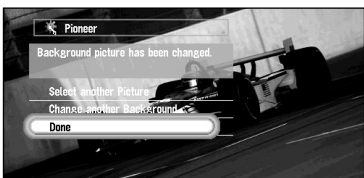
On this screen, you can select the following items:

**Center :** Selected picture is displayed at the center of the screen.

**Repetition :** Selected picture is patterned, and displayed as covering the whole screen.

Once you click the OK button, changing of background picture starts. When the change is completed, the selected picture appears.

7 Select “Done” and click the OK button.



On this screen, you can select the following items:

**Select another Picture :** This is selected when you want to change to another picture. Return to Step 4.

**Change another Background :** The Background Picture Setting menu reappears.

Click the OK button to return to “Settings” menu.

## ■ Changing background picture stored on a disc (AV Background only)

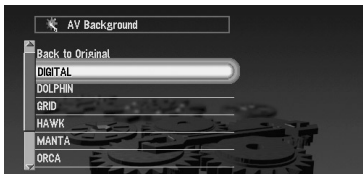
- 1 Select “Settings”, “Background Picture Setting” from the Main menu, and click the OK button.

Background Picture Setting menu is displayed. The picture selected at each screen is indicated on the right side of “AV Background” and “Navigation Background” items.

- 2 Select “AV Background” and click the OK button.

The list of the pictures available is displayed. If you want to install a picture directly from PC card, refer to Step 4 onwards in “Selecting a picture stored in PC card”.

- 3 Select a picture you want for the background, and click the OK button.



The message whether or not to set the picture being selected appears.

- 4 Click the OK button.

Selected picture is set.

- Only JPEG format (".jpg") pictures can be used as a background picture.
- You can only use standard characters (alphabets of both cases : A-Z, a-z) and numbers (0-9) for the file name of a background picture (international (accented) characters cannot be used).
- Up to maximum 2048×1536 pixels picture can be used. We cannot guarantee a proper operation for a picture bigger than this size.
- Progressive format JPEG pictures cannot be used.
- When changing a picture starts, do not cut off the vehicle engine until the message informing the completion of changing a picture is indicated. Otherwise a picture file may be destroyed.
- If a map disc is not set to the Navigation System, you cannot change the background picture.
- When the Navigation System is reset, or the language setting is changed, background picture may be changed to the original picture. (There is also a possibility that the system will revert to the original picture for some other reason). If this happens, reset the background picture.

# Checking the Navigation Status

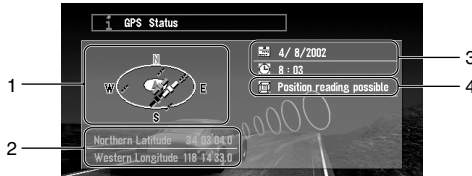
The navigation status, including the driving status of a car, positioning status by satellite, learning status of the 3D sensor, and cable connection status can be checked.

## ■ 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 satellites and radio wave reception status

The position of GPS satellites from which data is currently being received is shown. Satellites used for positioning are 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 satellites (2-dimension, 3-dimension, etc.)

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

- 2 **Push the BACK button.**

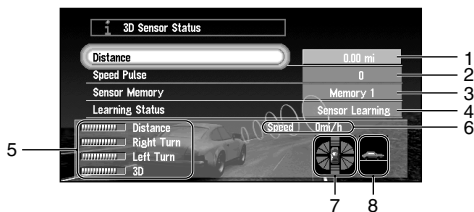
The previous screen appears.

## ■ 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 the road, can be checked on the screen.

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

The 3D Calibration Status screen appears.



### 1. Distance

Driving distance is indicated.

### 2. Speed Pulse

Total number of speed pulses is indicated.

### 3. Sensor memory (Memory 1/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 the street is indicated.



**2 Push the BACK button.**

The previous screen appears.

**To clear the memory...**

If you want to delete the memorised learning contents of “Distance”, “Speed”, 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 leads 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 Aerial**

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. Hand 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 headlights or small lamps of a car are on, “On” is displayed. When the headlights of a car are off, “Off” is displayed. (If the ILL (orange/white) lead is not connected, “Off” appears.)

## 7. Back Signal

When the shift 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.

## 2 Push the **BACK** button.

The previous screen appears.

## Customizing Your Navigation System

### Modifying the Default Settings

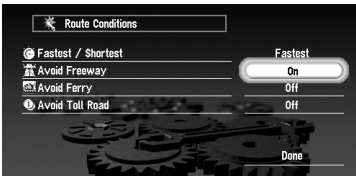
You can tailor default settings such as navigation functions and information display for ease of use.

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

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

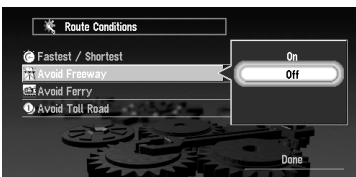
The Route Guidance menu appears. In the list, the settings are shown on the left, and the status of each setting is shown on the right. “On” appears to the right of the “Avoid Freeway” setting, showing that this function is set off.

- 2 **Select “Avoid Freeway” and click the OK button.**
- 3 **Using the joystick, select “On” 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 “Off” 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 to “Avoid Freeway” is now “Off”. 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, PC Card, and Background Picture Setting 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 78.
- Background Picture menu is described in "Changing Background Picture" on page 82.

### **■ 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.

#### ***Areas to Avoid***

Setting or change of Areas to Avoid is performed (see "Setting Areas to Avoid" on page 75).

#### ***Route No.***

This setting controls whether, during a route calculation, the system calculates one route only, or whether it calculates several 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.

**Multiple Routes** : Several route options are calculated (maximum 6 routes).

#### ***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. (A route using freeway may be calculated in some cases, such as when setting your destination far away.)

**On\*** : Calculate a route that avoids freeways.

**Off** : Calculate a route that may include freeways.

#### ***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.

## **Close-up of Intersection**

This setting enables to switch to an enlarged map around the point when your car is approaching to an intersection, entrance/exit of freeway, or a intersection.

- 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 “**70 mile/h**”, “**80 mile/h**”(\*), “**90 mile/h**”, or “**100mile/h**”.
- When the “KM / Mile Setting” is set to “km”, select one from “**100 km/h**”, “**120 km/h**”(\*), “**140 km/h**”, or “**160 km/h**”.

## **Average Speed (Ordinary 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 “**30 mile/h**”(\*), “**40 mile/h**”, or “**50 mile/h**”.
- When the “KM / Mile Setting” is set to “km”, select one from “**40 km/h**”(\*), “**60 km/h**”, or “**80 km/h**”.

## **AV Guide Mode**

Setting whether or not to switch to navigation screen automatically when the navigation guidance voice is played while displaying a screen other than navigation.

- On\*** : Switching from audio screen to navigation screen.
- Off** : Screen is not switched.

## ■ **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.

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

**Day Display** : The map is always displayed with bright colors.

### **Display Areas to Avoid**

This setting activates Area to Avoid being set.

**On\*** : Areas to Avoid are displayed on the screen, and these areas are avoided as much as possible during route calculation.

**Off** : Areas to Avoid are not indicated, and are not taken into account during route calculation.



## **Caution**

---

**When “Display Areas to Avoid” is turned Off, Area to Avoid will not be considered during route calculation. If you want a route calculation while avoiding some areas, change the setting to On.**

---

### **Tracking Display**

The tracking display setting has following options.

**On (Always)** : Display tracking dots 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. 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.

☞ If you select “Off”, the sound from the Head Unit may interfere with the voice recognition system.

### **Voice Guidance Mute**

This can be set when your Navigation System is combined with the Pioneer Head Unit with a muting function. 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.

### **Auto Voice Recognition**

This setting enables to perform all operations from entering password up to route calculation with voice by switching to voice recognition state after the engine of your car is started. (This function is effective only when a route is not set.)

**On** : The automatic voice recognition is engaged each time the car is started.

**Off\*** : Voice operation starts after pressing the TALK button.

### **Clock Adjustment**

Adjusts the systems clock to coincide with Daylight Saving Time (DST). 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 “Installing the Program” on page 25.)

**On** : DST is taken into account.

**Off\*** : DST is not taken into account.

- ☞ When the period of DST comes, or when the DST period ends, this unit does not automatically change the DST setting. See “Installing the Program” on page 25 and change the DST setting.

### ***Current Time***

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***

It is possible to display the estimated time of arrival or the estimated travelling time from your current location to your destination. The options are:

- ETA** : 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 “Installing the Program” on page 25 and change the time setting.

### ***Password***

Registering and changing the password (see “Registering a Password” on page 74).

### ***Help Menu***

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 the list of available voice commands 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 “Installing the Program” on page 25). 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 and switch off the Navigation System until the installation is completed and the map of your surroundings appears.**

---

↪ If you change the language used, the set password is cleared. If desired, set the password again (see “Registering a Password” on page 74).

### **Return Home**

Registering and changing your home location (see “Registering Your Home and Your Favorite Location” on page 71).

### **Go to**

Registering and changing your favorite location (see “Registering Your Home and Your Favorite Location” on page 71).

### **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.

### **Adjust Display Position**

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

### **Tuner Registration**

You can store the frequency of a station you frequently listen to and then call it by voice command. For details, see “Calling Radio Stations or TV Stations by Voice” on page 153.

### **TV Registration**

You can store the channel you frequently watch and then call it by voice command. For details, see “Calling Radio Stations or TV Stations by Voice” on page 153.



## Combining and Using Pioneer AV Equipment

### To Ensure Safe Driving

#### WARNING

- To avoid the risk of an 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.

### Before Using

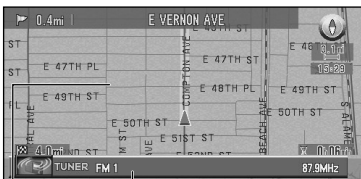
Described in this section is the information you need to understand before using the Navigation System combined with the Pioneer AV Head Unit and the Remote Control operational instruction.

#### ■ Characteristics of the Navigation System when combined with Pioneer AV Head Unit

When the Navigation System is combined with Pioneer AV Head Unit, AVH-P6400CD or AVH-P6400, you can connect Pioneer AV equipments by using IP-BUS or AV-BUS. When the AV equipment and navigation units are connected together it is possible to mix the information displayed on the screen. If Navigation is selected as a Priority then basic audio information can also be shown as well as the map. If the audio is the priority then the basic Navi icons can also be displayed.

In addition to this when these two units are connected together some AV features can be controlled by the voice control system of the navigation.

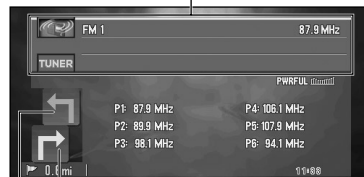
(example) Navigation screen



Information of AV being played  
Map display

(example) TUNER screen

Information of AV being played



Current traveling direction  
Next traveling direction

## Pioneer AV equipment which can be combined with the Navigation System

Refer to page 103 and see “Switching the source” of the AV Head Unit when combined.

- See the instruction manuals of AV equipment for the type of CD/DVD the equipment can play.
- For the connection methods, see the installation manuals of AV equipment, or consult the shop or dealer where you purchased the product.

### When resetting AV Head Unit

When pressing the reset button of AV Head Unit while Navigation System and AV Head Unit (AVH-P6400CD, AVH-P6400) are combined, make sure that ACC is tuned OFF. If the reset button is pressed while ACC is ON, it may not work properly.

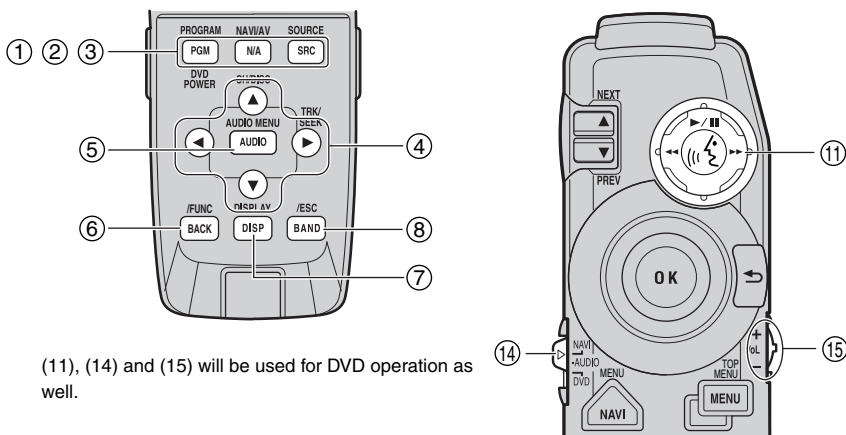
## How to use the Remote Control

When operating the Pioneer DVD player\* combined with the AV Head Unit, switch the Remote Control operation mode to “AUDIO”. When the operation mode is set to “AUDIO”, the operations for pioneer DVD player become possible with this remote control.

\*: SDV-P7, XDV-P9, XDV-P90, etc.

- You can also operate with the Steering Remote Control provided with AVIC-80DVD. (See AVIC-80DVD “Hardware Manual”.)

### Used when operating audio



(11), (14) and (15) will be used for DVD operation as well.

**(1) PGM (DVD POWER) button**

When the operation mode switch is set to “NAVI”, the functions set for each source beforehand becomes available. Function is preset for each source as shown below. Sources not shown below do not feature this function. (Depending on the component, you can change the Preprogram. For details, refer to the Head Unit’s instructions.)

CD (one disc only), Multi-CD player, DVD player (one disc only), Multi-DVD player :	PAUSE
TUNER :	BSM (Press for 2 seconds or more)
TV :	BSSM (Press for 2 seconds or more)
External unit :	FUNC1

Not effective with NAVIGATION built-in sources.

When the operation mode switch is set to “AUDIO” or “DVD”, the power of DVD player is turned ON/OFF.

**(2) NAVI/AV button**

Switches the display to the desired indications. Use to switch between Navigation map displays and audio component displays.

**(3) SRC (SOURCE) button**

Switches between sources and switches power ON/OFF. (Depending on the connected units, operation may differ slightly. Refer to “Switching Sources” in the connected unit’s instructions.)

**(4) 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.

**(5) A.MENU (AUDIO) button**

Display audio menus.

**(6) BACK/FUNC button**

Returns you to the previous display.

**(7) DISP button**

When the operation mode switch is set to “NAVI”, the display of the Pioneer AV Head Unit screen is switched over.

When the operation mode switch is set to “AUDIO” or “DVD”, display an Information Display of DVD. Press once more to change the Information Display of DVD.

**(8) BAND/ESC button**

This functions as the BAND button when using each source. It also cancels the menu you are viewing, and returns you to the original display.

**(11) Control stick and PLAY/PAUSE button**

When the control stick is pushed, voice operation is activated. During voice operation, if you want to cancel voice operation, push the control stick down.

**(14) Operation mode switch**

Changes the remote control’s mode.

**(15) VOL dial**

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

- When the Dipswitch 4 is ON, the volume of the voice guidance of the Navigation System is adjusted.
- When the Dipswitch 4 is OFF, 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.

***For the buttons other than those mentioned above***  
.....

When Navigation is combined with the AV Head Unit (AVH-P6400CD, AVH-P6400), functions (2) to (6) and (8) remain the same. For the other buttons, functions change according to the setting of the mode switch.

**NAVI :** This is set when the navigation is mainly used.

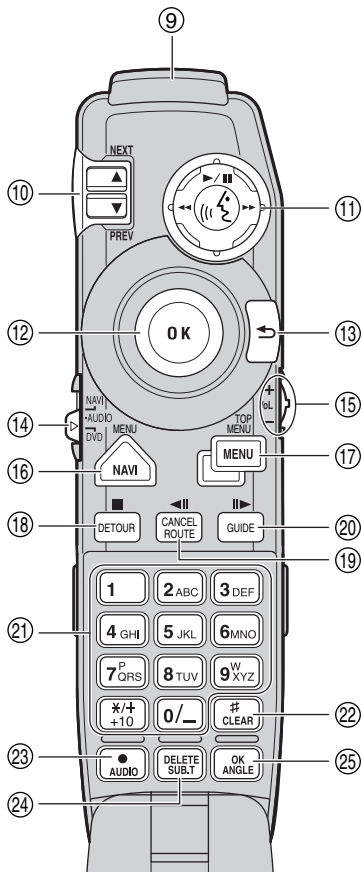
**AUDIO :** When operating the Pioneer DVD player\* combined with the AV Head Unit, switch the Remote Control operation mode to "AUDIO". When the operation mode is set to "AUDIO", the operations for Pioneer DVD player become possible with remote control.  
\*SDV-P7, XDV-P9, XDV-P90 etc.

**DVD :** This is set when the DVD player installed in the Navigation System is mainly used.

## Used when DVD is operated

When the operation mode switch is set to “AUDIO” or “DVD”, you can operate the DVD player.

- ⤷ In case of using the built-in DVD player of AVIC-9DVD, see the “Operation manual” of AVIC-9DVD.
- ⤷ In case of using the built-in DVD player of AVIC-90DVD, see “Hardware manual” of AVIC-90DVD.
- ⤷ You cannot play DVD-Video with the built-in DVD-ROM drive of AVIC-80DVD.



### (9) Transmitter

Signals of the Remote Control are transmitted from here.

### (10) NEXT/PREV control

This is used to forward or rewind chapters when operating a DVD player.

### (11) Control stick and PLAY/PAUSE button

If you push the control stick up, playback starts. Push the control stick to the left during playback for fast reverse, and push to the right for fast forward. When the control stick is pushed, voice operation is activated. During voice operation, if you want to cancel voice operation, push the control stick down.

### (12) Joystick/OK button

Use this for selecting items on a menu screen or to confirm a selection. (This is mainly used for navigation.)

### (13) BACK button

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

### (14) Operation mode switch

Changes the remote control’s mode.

### (15) VOL dial

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

### (16) 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.

### (17) TOP MENU button

The main menu stored in DVD is displayed.

### (18) ■ (DETOUR) button

This button is used to stop the playback of the disc when playing DVD.

**(19) ◀|| (CANCEL ROUTE) button (XDV-P9, XDV-P90 only)**

During DVD-video playback, press this for frame-by-frame reverse.

**(20) ||▶ (GUIDE) button**

During DVD-video playback, press this to move frame-by-frame.

**(21) Numeric keypad**

Use this keypad for entering numbers such as chapter numbers.

**(22) CLEAR button**

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

**(23) AUDIO [•] button**

This button is used for switching voice (language used for voice, recording type) when operating DVD player.

**(24) SUB.T (DELETE) button**

This button is used for switching a subtitle when operating DVD player.

**(25) ANGLE (OK) button**

This button is used for switching angles when operating DVD player.

↪ With some discs, the prohibited mark "⊘" may be displayed and operation may not be possible.



## Basic Operation When Pioneer AV Equipment Is Combined

This section describes how to switch the source and screen. In addition, a basic operational flow for each source is also described. The operation method for each source is almost the same as the basic operational flow described in this section. So study this first.

### ■ Switching the source

How to switch the source, and how to switch the map screen of the Navigation System and audio equipment screen are described.

#### 1 Press the SOURCE button and switch to the source you want to operate.

As you press the SOURCE button, the source is switched and the information plate of each source appears.

Press SOURCE button repeatedly to switch between the following sources:

CD player (AVH-P6400CD) - TV - VIDEO - Tuner - XM tuner - DAB (Digital Audio Broadcasting) - DVD (one disc only/multi-DVD player) - Multi-CD player - External unit 1 - External unit 2 - AUX - NAVI

Depending on the equipment connected, the source you can select differs.

- ⌚ When the power of AV equipment is off, or a disc is not set, you may not be able to select the source. In such a case, turn the power of the AV equipment on and insert a disc before switching the source.

#### 2 Adjust the volume using the VOL dial.

##### *Navigation source*

When DVD or CD is played with a DVD player installed in the main unit, the source will be set to "NAVI" source.

- ⌚ In case of using the built-in DVD player of AVIC-9DVD, see the "Operation manual" of AVIC-9DVD.
- ⌚ In case of using the built-in DVD player of AVIC-90DVD, see "Hardware manual" of AVIC-90DVD.
- ⌚ You cannot play DVD-Video and CD with the built-in DVD-ROM drive of AVIC-80DVD.

#### **In the following cases, the sound source will not change:**

- ⌚ When a product corresponding to each source is not connected to AV Head Unit.
- ⌚ When no disc is set in AV Head Unit.
- ⌚ When no disc is set in the CD player.
- ⌚ When no magazine is set in the multi-CD player.
- ⌚ When no magazine is set in the multi-DVD player.
- ⌚ When the AUX (auxiliary input) is set to off.
- ⌚ When no disc is set in the DVD player (e.g, SDV-P7).
- ⌚ When the VIDEO SETTING is set to off.

## ■ Switching the screen

### 1 Press the NAVI/AV button to select the display mode.

As you press the NAVI/AV button, the map screen of the Navigation System or the display of the audio are selected.

(Map screen of the Navigation System)



(Audio operation screen)



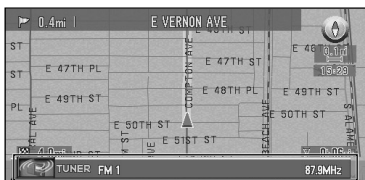
← N/A →  
NAVI/AV  
button

## ■ Displaying information screen

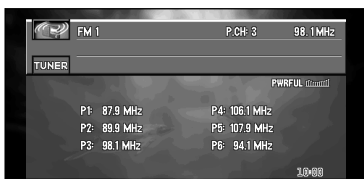
### 1 The operation mode switch is set to “NAVI”.

### 2 Press the DISP button and switch the screen display.

If you press the DISP button while using the navigation display the information plate for source appears at the bottom of the screen. If you repeat this operation this display will appear and disappear. If you do not operate for 4 seconds, information plate automatically disappears.



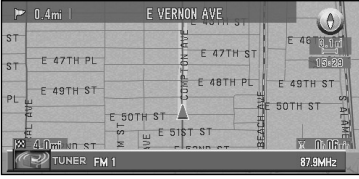
If you press the DISP button in the screen of each source, you can switch the items displayed on the screen. As you press the DISP button, displayed items are switched over.



- The number of switching over varies according to the source selected.
- All the characters may not be indicated according to the length of the characters. In such a case, “...” appears at the end of the characters showing that all the characters are not displayed.

## ■ Flow of menu operation at each source

- 1 Press the SOURCE button and switch to the source you want to operate.



- 2 Press the A.MENU (AUDIO) button.

The menu of selected source appears.

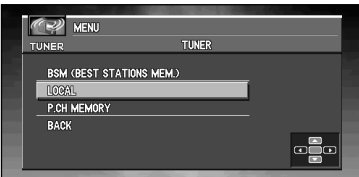
☞ Menus displayed on the screen differ according to the selected source.



- (1) SOURCE name
  - (2) You can operate the functions of each source.
  - (3) Audio is adjusted.
  - (4) Other settings are performed.
  - (5) MENU name
- (3) and (4) are common for the screen of each source.

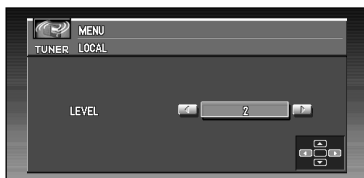
- 3 Press ▲ or ▼ to select an item, and press the A.MENU (AUDIO) button.

The list of the items you can operate appears.



- 4 Repeat Step 3 and display the item you want to operate and the current setting.

- 5 Press ▲ or ▼ to select the item you want to operate, and press ▲, ▼, ◀ and ▶ to change the setting.**



As you press the BACK/FUNC button, the previous screen is displayed. If you want to change other settings, repeat the Steps 3 to 5.

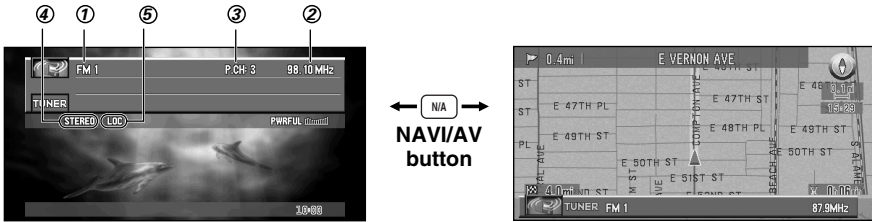
➤ You can also select "BACK" and press the A.MENU (AUDIO) button to return to the previous screen.

- 6 Press the BAND/ESC button to end the operation.**  
Original screen appears.

# TUNER

These are the basic steps necessary to operate the radio. More advanced tuner operation is explained starting on page 108.

- ⤷ This cannot be used unless AV Head Unit is combined and the source unit is connected by IP-BUS.



- ① **BAND**  
Shows which band the radio is tuned to AM or FM.
- ② **FREQUENCY**  
Shows to which frequency the tuner is tuned.
- ③ **PRESET NUMBER**  
Shows what preset has been selected.
- ④ **STEREO indicator**  
Shows that the frequency selected is being broadcast in stereo.
- ⑤ **LOC indicator**  
This is indicated unless local seek turning is turned OFF.

## ■ How to listen to the radio

- 1 **Press SOURCE button to select the tuner.**
- 2 **Use VOL dial to adjust the sound level.**  
Rotate to increase or decrease the volume.
- 3 **Press BAND/ESC button to select a band.**  
Press BAND/ESC button until the desired band is displayed, FM 1, FM 2, FM 3 for FM or AM.
- 4 **To perform manual tuning, press ◀ or ▶ with quick presses.**  
The frequencies move up or down step by step.
- 5 **To perform seek tuning, press and hold ◀ or ▶ for about one second and release.**  
The tuner will scan the frequencies until a broadcast strong enough for good reception is found.
  - ⤷ You can cancel seek tuning by pressing either ◀ or ▶ with a quick press.
  - ⤷ If you press and hold ◀ or ▶ you can skip broadcasting stations. Seek tuning starts as soon as you release the buttons.

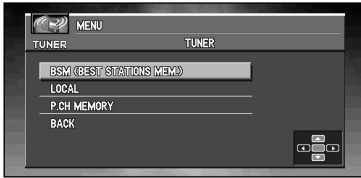
## ■ **Displaying the TUNER MENU**

1 Press **A.MENU (AUDIO)** button when source is **TUNER**.

2 Select **“TUNER”** and press **A.MENU (AUDIO)** button.

The **TUNER MENU** is displayed as follows:

**BSM (BEST STATIONS MEMORY), LOCAL, P.CH MEMORY**



➤ Select **“BACK”** in the **MENU** display or press **BACK/FUNC** button to return to the previous display.

➤ To return to the frequency display, press **BAND/ESC** button.

➤ If you do not operate the function within about 30 seconds, the display is automatically returned to the frequency display.

## ■ **Storing the strongest broadcast frequencies**

**BSM (Best Station Memory)** lets you automatically store the six strongest broadcast frequencies.

1 Select **“BSM (BEST STATIONS MEMORY)”** from the **TUNER MENU**, and press **A.MENU (AUDIO)** button.

2 Press **▲** to turn **BSM** on.

**BSM** turns to green. While **BSM** is green the six strongest broadcast frequencies will be stored Preset memory in order of their signal strength. When finished, **BSM** returns to the normal color.

➤ To cancel the storage process, press **▼**.

➤ Up to 18 FM stations, 6 for each of the three FM bands, and 6 AM stations can be stored in memory.

➤ You can also use **▲** and **▼** to recall radio station frequencies assigned to Preset memory.

➤ If there are fewer than six strong broadcast frequencies, previously stored frequencies may remain in memory.

## ■ Tuning in strong signals

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

- 1 Press **▲** or **▼** in the TUNER MENU to select “LOCAL”, and press A.MENU (AUDIO) button.
- 2 Press **◀** or **▶** to set the sensitivity.  
There are four levels of sensitivity for FM and two levels for AM :

FM : OFF - 1 - 2 - 3 - 4

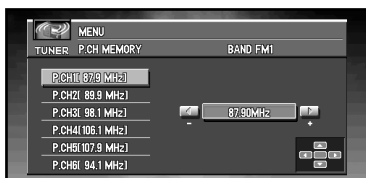
AM : OFF - 1 - 2

The 4 setting allows reception of only the strongest stations, while lower settings let you receive progressively weaker stations.

## ■ Storing broadcast frequencies

You can easily store up to six broadcast frequencies for later recall with the press **▲** or **▼**.

- 1 Press **▲** or **▼** to select “P.CH MEMORY” from the TUNER MENU, and press A.MENU (AUDIO) button.
- 2 Adjust frequency with **◀** or **▶**.  
If you continue pressing **◀** or **▶**, a strong broadcast frequency is automatically searched for, and search ends when it is found.



- 3 Select a preset channel number with **▲** or **▼** and press A.MENU (AUDIO) button to preset that frequency.
- 4 If you want to preset frequencies one after another, use **▲** or **▼** to move to the next preset channel you want to use to store a frequency, and perform the same operation.

When you have finished, press BAND/ESC button to return to the source display.

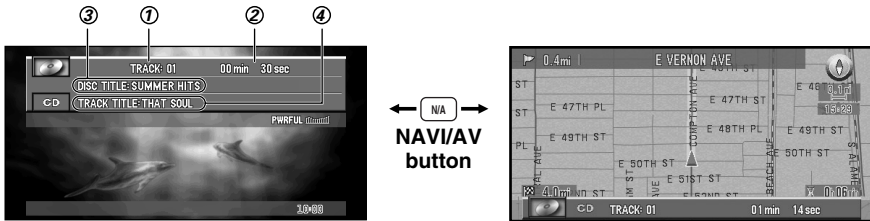
The selected radio station frequency has been stored in memory.

You can use **▲** and **▼** to recall radio station frequencies assigned to P1-6 (P.CH MEMORY).

# COMPACT DISC (AVH-P6400CD only)

These are the basic steps necessary to play a CD. More advanced CD operation is explained starting on page 111.

- This cannot be used unless AV Head Unit is combined and the source unit is connected by IP-BUS.
- In case of using the built-in DVD player of AVIC-9DVD, see the “Operation manual” of AVIC-9DVD.
- In case of using the built-in DVD player of AVIC-90DVD, see “Hardware manual” of AVIC-90DVD.
- You cannot play CD with the built-in DVD-ROM drive of AVIC-80DVD.



## ① TRACK

Shows the track currently playing.

## ② TIME

Shows the elapsed playing time of the current track.

## ③ DISC TITLE

When playing a CD TEXT disc, the DISC TITLE is displayed. With regular CDs that do not usually have the titles recorded on them, NO TITLE is displayed.

## ④ TRACK TITLE, DISC ARTIST, TRACK ARTIST

When playing CD TEXT disc, each of TRACK TITLE, DISC ARTIST or TRACK ARTIST is displayed. When the operation mode switch is set to “NAVI”, press DISP button repeatedly to switch those items.

## ■ How to listen to a CD

### 1 Set a CD to the CD player

➤ For details of setting a CD to CD player, see your CD player’s manual.

### 2 Press SOURCE button to select CD source.

### 3 Use VOL dial to adjust the sound level.

Rotate to increase or decrease the volume.

### 4 To perform fast forward or reverse, press and hold ◀ or ▶.

### 5 To skip back or forward to another track, press ◀ or ▶.

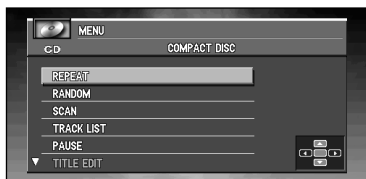
Pressing ▶ skips to the start of the next track.

Pressing ◀ once skips to the start of the current track. Pressing again will skip to the previous track.



## ■ Displaying the COMPACT DISC MENU

- 1 Press **A.MENU (AUDIO)** button when source is CD.
- 2 Select **"COMPACT DISC"** and press **A.MENU (AUDIO)** button.  
The COMPACT DISC MENU is displayed as follows:  
REPEAT, RANDOM, SCAN, TRACK LIST, PAUSE, TITLE EDIT



You can operate a desired function. For details, refer to the pages for each of the functions.

- ⌚ When playing regular CDs that are not CD TEXT discs, you cannot select TRACK LIST.
- ⌚ During playback of a CD Text disc, you cannot select TITLE EDIT.
- ⌚ Select "BACK" in the MENU display or press BACK/FUNC button to return to the previous display.
- ⌚ To return to the frequency display, press BAND/ESC button.
- ⌚ If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

## ■ Repeating play

Repeat play lets you hear the same track over again.

- 1 Press **▲** or **▼** to select **"REPEAT"** from the COMPACT DISC MENU, and press **A.MENU (AUDIO)** button.
  - 2 Press **▲** to turn repeat play on.  
The track presently playing will play and then repeat.
  - 3 Press **▼** to turn repeat play off.  
The track presently playing will continue to play and then play the next track.
- ⌚ If you perform track search or fast forward/reverse, repeat play is automatically canceled.

## ■ Playing tracks in a random order

Random play lets you play back tracks on the CD in a random order.

- 1 Press **▲** or **▼** to select **"RANDOM"** from the COMPACT DISC MENU, and press **A.MENU (AUDIO)** button.
- 2 Press **▲** to turn random play on.  
Tracks will play in a random order.
- 3 Press **▼** to turn random play off.  
Tracks will continue to play in order.

## ■ Scanning tracks of a CD

Scan play lets you hear the first 10 seconds of each track on the CD.

- 1 Press ▲ or ▼ to select “SCAN” from the COMPACT DISC MENU, and press A.MENU (AUDIO) button.**
- 2 Press ▲ to turn scan play on.**  
The first 10 seconds of each track is played.
- 3 When you find the desired track press ▼ to turn scan play off.**  
The track will continue to play.
  - If the display has automatically returned to the playback display, select “SCAN” again by pressing A.MENU (AUDIO) button.
  - After scanning of a CD is finished, normal playback of the tracks will begin again.

## ■ Playing back from the track list

When playing CD TEXT discs, you can select and playback tracks from the title’s displayed track list.

- 1 Press ▲ or ▼ to select “TRACK LIST” from the COMPACT DISC MENU, and press A.MENU (AUDIO) button.**
- 2 Press ▲ or ▼ to select the track you want to play in the LIST, and press A.MENU (AUDIO) button.**  
Playback of the selected track begins. After that, tracks play in order.



- Up to six tracks in the list can be displayed at once. Press ◀ or ▶ to display previous or next list. When the first or sixth track is indicated in the displayed list, pressing ▲ or ▼ takes you to the previous or next page.
- Titles of up to 10 characters can be displayed.
- Display of some characters may not be possible.

## ■ Pausing CD playback

Pause lets you temporarily stop playback of the CD.

- 1 Press ▲ or ▼ to select “PAUSE” from the COMPACT DISC MENU, and press A.MENU (AUDIO) button.**
- 2 Press ▲ to turn pause on.**  
Play of the current track pauses.
- 3 Press ▼ to turn pause off.**  
Play will resume at the same point that you turned pause on.

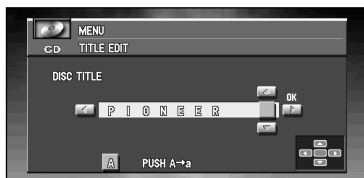
## ■ Using disc title functions

You can input CD titles and display the title. The next time you insert a CD for which you have entered a title, the title of that CD will be displayed.

### Entering disc title

Disc title input lets you input CD titles up to 10 letters long and up to 48 disc titles into the CD player.

- 1 **Play a CD that you want to enter the title.**
- 2 **Press ▲ or ▼ to select “TITLE EDIT” from the COMPACT DISC MENU, and press A.MENU (AUDIO) button.**
  - ☞ When playing a CD TEXT disc, you cannot select to “TITLE EDIT”. The disc title will have already been recorded on a CD TEXT disc.
- 3 **Press A.MENU (AUDIO) button to select the desired character type.**  
Press A.MENU (AUDIO) button repeatedly to switch between the following character type:  
Alphabet(upper case), Number and Symbols-Alphabet(lower case)
- 4 **Press ▲ or ▼ to select a letter of the alphabet.**  
Each press of ▲ will display a letter of the alphabet in A B C ... X Y Z, numbers and symbols in 1 2 3 ... @ # < order. Each press of ▼ will display a letter in the reverse order, such as Z Y X ... C B A order.
- 5 **Press ► to move the cursor to the next character position.**  
When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◀ to move backwards in the display.
- 6 **Move the cursor to the last position by pressing ► after entering the title.**



When you press ► one more time, the entered title is stored in memory.

- 7 **Press BAND/ESC button to return to the playback display.**
  - ☞ Titles remain in memory, even after the disc has been removed from CD player, and are recalled when the disc is reinserted.
  - ☞ After data for 48 discs has been stored in memory, data for a new disc will overwrite the oldest one.
  - ☞ If you connect a multi-CD player, you can input disc titles for up to 100 discs.

### Displaying titles on CD TEXT discs

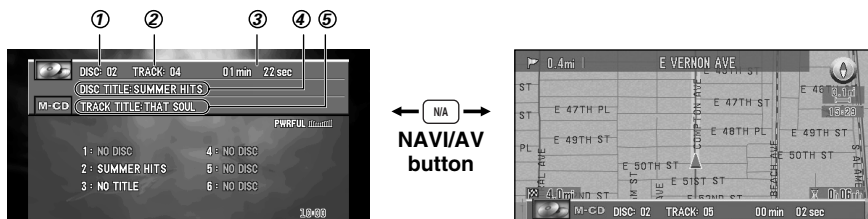
- 1 **Press DISP button when playing a CD TEXT disc.**  
Press DISP button repeatedly to switch between the following settings:  
TRACK TITLE (track title) - DISC ARTIST (disc artist name) - TRACK ARTIST (track artist name)
  - ☞ If specific information has not been recorded on a CD TEXT disc, “NO TITLE” will be displayed.

# MULTI-CD

You can use Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) to control a multi-CD player, which is sold separately.

These are the basic steps necessary to play a CD with your multi-CD player. More advanced CD operation is explained starting on page 115.

- ☞ This cannot be used unless AV Head Unit is combined and the source unit is connected by IP-BUS.



## ① DISC

Shows the disc currently playing.

## ② TRACK

Shows the track currently playing.

## ③ TIME

Shows the elapsed playing time of the current track.

## ④ DISC TITLE

The DISC TITLE is displayed. With regular CDs that do not usually have the titles recorded on them, “NO TITLE” is displayed.

## ⑤ TRACK TITLE, DISC ARTIST, TRACK ARTIST

When playing CD TEXT disc, each of TRACK TITLE, DISC ARTIST or TRACK ARTIST is displayed. Press DISP button repeatedly to switch those items.

## ■ How to listen to a CD

- 1 Press SOURCE button to select M-CD source.**
  - 2 Use VOL dial to adjust the sound level.**  
Rotate to increase or decrease the volume.
  - 3 Select a disc you want to listen to with the ▲ or ▼.**
  - 4 To perform fast forward or reverse, press and hold ◀ or ▶.**
  - 5 To skip back or forward to another track, press ◀ or ▶.**  
Pressing ▶ skips to the start of the next track.  
Pressing ◀ once skips to the start of the current track. Pressing again will skip to the previous track.
- ☞ If there are no discs in the multi-CD player magazine, “NO DISC” is displayed. Depending on the multi-CD player you use with Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400), the display may be blank.

## ■ 50-disc multi-CD player

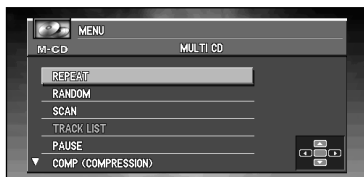
Only those functions described in this manual are supported for 50-disc multi-CD players.

### ■ Displaying the MULTI-CD MENU

- 1 Press **A.MENU (AUDIO)** button when source is **M-CD**.
- 2 Select **"MULTI-CD"** and press **A.MENU (AUDIO)** button.

The MULTI-CD MENU is displayed as follows:

REPEAT, RANDOM, SCAN, TRACK LIST, PAUSE, COMP (COMPRESSION), ITS (INSTANT TRACK SELECTION) PLAY, ITS (INSTANT TRACK SELECTION) MEMORY, TITLE EDIT



You can operate a desired function. For details, refer to the pages for each of the functions.

- ⌚ Select "BACK" in the MENU display or press BACK/FUNC button to return to the previous display.
- ⌚ To return to the playback display, press BAND/ESC button.
- ⌚ If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

### ■ Repeating play

There are three repeat play ranges for the multi-CD player: MAGAZINE (multi-CD player repeat), TRACK (one-track repeat), and DISC (disc repeat).

- 1 Press **▲** or **▼** to select **"REPEAT"** from the MULTI-CD MENU, and press **A.MENU (AUDIO)** button.
- 2 Press **◀** or **▶** to select the repeat range.

**MAGAZINE** : Repeat all discs in the multi-CD player

**TRACK** : Repeat just the current track

**DISC** : Repeat the current disc

- ⌚ If you select other discs during repeat play, the repeat play range changes to MAGAZINE (multi-CD player repeat).
- ⌚ If you perform track search or fast forward/reverse during TRACK (one-track repeat), the repeat play range changes to DISC (disc repeat).

## ■ **Playing tracks in a random order**

Random play lets you play back tracks in a random order within the repeat range, MAGAZINE (multi- CD player repeat) and DISC (disc repeat).

### **1 Select the repeat range.**

➤ Refer to “DVD Operation Reference Table” on page 115.

### **2 Press ▲ or ▼ to select “RANDOM” from the MULTI-CD MENU, and press A.MENU (AUDIO) button.**

### **3 Press ▲ to turn random play on.**

Tracks will play in a random order within the previously selected “MAGAZINE” (multi-CD player repeat) or “DISC” (disc repeat) ranges.

### **4 Press ▼ to turn random play off.**

Tracks will continue to play in order.

## ■ **Scanning CDs and tracks**

While you are using “DISC” (disc repeat), the beginning of each track on the selected disc plays for about 10 seconds. When you are using “MAGAZINE” (multi-CD player repeat), the beginning of the first track of each disc is played for about 10 seconds.

### **1 Select the repeat range.**

➤ Refer to “DVD Operation Reference Table” on page 115.

### **2 Press ▲ or ▼ to select “SCAN” from the MULTI-CD MENU, and press A.MENU (AUDIO) button.**

### **3 Press ▲ to turn scan play on.**

The first 10 seconds of each track of the present disc (or the first track of each disc) is played.

### **4 When you find the desired track (or disc) press ▼ to turn scan play off.**

The track (or disc) will continue to play.

➤ If the display has automatically returned to the playback display, select “SCAN” again by pressing A.MENU (AUDIO) button.

## ■ *Playing back from the track list*

When playing CD TEXT discs, you can select and playback tracks from the title's displayed track list.

☞ This function is available only when CD TEXT disc is played with a Multi-CD Player, with CD TEXT disc playback function.

**1 Press ▲ or ▼ to select "TRACK LIST" from the MULTI-CD MENU, and press A.MENU (AUDIO) button.**

**2 Press ▲ or ▼ to select the track you want to play in the LIST, and press A.MENU (AUDIO) button.**

Playback of the selected track begins. After that, tracks play in order.

☞ Up to six tracks in the list can be displayed at once. Press ◀ or ▶ to display previous or next list. When the first or sixth track is indicated in the displayed list, pressing ▲ or ▼ takes you to the previous or next page.

☞ Titles of up to 10 characters can be displayed.

☞ Display of some characters may not be possible.

## ■ *Pausing CD playback*

Pause lets you temporarily stop playback of the CD.

**1 Press ▲ or ▼ to select "PAUSE" from the MULTI-CD MENU, and press A.MENU (AUDIO) button.**

**2 Press ▲ to turn pause on.**

Play of the current track pauses.

**3 Press ▼ to turn pause off.**

Play will resume at the same point that you turned pause on.

## ■ *Using compression and bass emphasis*

You can use these functions only with a multi-CD player that supports them.

Using COMP (compression) and DBE (dynamic bass emphasis) functions let you adjust the sound playback quality of the multi-CD player. Each of the functions have a two-step adjustment. The COMP function balances the output of louder and softer sounds at higher volumes. DBE boosts bass levels to give playback a fuller sound. Listen to each of the effects as you select through them and use the one that best enhances the playback of the track or CD that you are listening to.

**1 Press ▲ or ▼ to select "COMP (COMPRESSION)" from the MULTI-CD MENU, and press A.MENU (AUDIO) button.**

☞ If the multi-CD player does not support COMP/DBE, "NO COMP" is displayed when you attempt to select it.

**2 Press ◀ or ▶ to select your favorite setting.**

Press ◀ or ▶ repeatedly to switch between the following settings:  
COMP OFF - COMP 1 - COMP 2 - COMP OFF - DBE 1 - DBE 2

## ■ **Using ITS playlists**

ITS (instant track selection) lets you make a playlist of favorite tracks from those in the multi-CD player magazine. After you have added your favorite tracks to the playlist you can turn on ITS play and play just those selections.

### **Creating a playlist with ITS programming**

You can use ITS to enter and playback up to 99 tracks per disc, up to 100 discs (with the disc title). (With multi-CD players sold before the CDX-P1250 and CDX-P650, up to 24 tracks can be stored in the playlist.)

When using a multi-CD player that does not feature an ITS function, you cannot select “ITS PLAY”.

- 1 Play a CD that you want to program.**
- 2 Press ▲ or ▼ to select “ITS (INSTANT TRACK SELECTION) MEMORY” from the MULTI-CD MENU, and press A.MENU (AUDIO) button.**
- 3 Select a desired track by pressing ◀ or ▶.**
- 4 Press ▲ to store the currently playing track in the ITS MEMORY.**

The currently playing selection is added to your playlist.

- ↪ After data for 100 discs has been stored in memory, data for a new disc will overwrite the oldest one.
- ↪ If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

### **Erasing a track from your ITS playlist**

When you want to delete a track from your ITS playlist, you can if ITS play is on. If ITS play is already on, skip to step 2. If ITS play is not already on, press A.MENU (AUDIO) button.

- 1 Play a CD you want to delete a track from your ITS playlist, and turn ITS play on.**

↪ Refer to “Playback from your ITS playlist” on page 119.

- 2 Press ▲ or ▼ to select “ITS (INSTANT TRACK SELECTION) MEMORY” from the MULTI-CD MENU, and press A.MENU (AUDIO) button.**

- 3 Select a desired track by pressing ◀ or ▶.**

- 4 Press ▼ to erase a track from your ITS playlist.**

The currently playing selection is erased from your ITS playlist and playback of the next track from your ITS playlist begins.

↪ If there are no tracks from your playlist in the current range, “ITS EMPTY” is displayed and normal play resumes.

- 5 Press BAND/ESC button to return to the playback display.**

↪ If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.



## **Playback from your ITS playlist**

ITS play lets you listen to the tracks that you have entered into your ITS playlist. When you turn on ITS play, tracks from your ITS playlist in the multi-CD player will begin to play.

### **1 Select the repeat range.**

☞ Refer to “DVD Operation Reference Table” on page 115.

### **2 Press ▲ or ▼ to select “ITS (INSTANT TRACK SELECTION) PLAY” from the MULTI-CD MENU, and press A.MENU (AUDIO) button.**

### **3 Press ▲ to turn ITS play on.**

Playback begins of those tracks from your playlist within the previously selected MAGAZINE (multi-CD player repeat) or DISC (disc repeat) ranges.

☞ If no tracks in the current range are programmed for ITS play then “ITS EMPTY” is displayed.

### **4 Press ▼ to turn ITS play off.**

Playback will continue in normal order from the currently playing track and CD.

☞ If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

## **Erasing a CD from your ITS playlist**

When you want to delete all tracks of a CD from your ITS playlist, you can if ITS play is off.

### **1 Play a CD that you want to delete.**

### **2 Press ▲ or ▼ to select “ITS (INSTANT TRACK SELECTION) MEMORY” from the MULTI-CD MENU, and press A.MENU (AUDIO) button.**

### **3 Press ▼ to erase all tracks on the currently playing CD from your ITS playlist.**

All tracks on the currently playing CD are erased from your playlist and “CLEAR” is displayed.

### **4 Press BAND/ESC button to return to the playback display.**

## ■ Using disc title functions

You can input CD titles and display the title. Then you can easily search for and select a desired disc for play.

### Entering disc titles

Disc title input lets you input CD titles up to 10 letters long and up to 100 disc titles into the multi-CD player.

☞ If you enter wider letters such as W or M, you may not be able to enter 10 characters.

#### 1 Play a CD that you want to enter the title.

#### 2 Press ▲ or ▼ to select "TITLE EDIT" from the MULTI-CD MENU, and press A.MENU (AUDIO) button.

☞ When playing a CD TEXT disc, you cannot select to "TITLE EDIT". The disc title will have already been recorded on a CD TEXT disc.

#### 3 Press A.MENU (AUDIO) button to select the desired character type.

Press A.MENU (AUDIO) button repeatedly to switch between the following character type:

Alphabet(upper case), Number and Symbols-Alphabet(lower case)

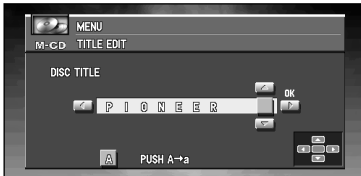
#### 4 Press ▲ or ▼ to select a letter of the alphabet.

Each press of ▲ will display a letter of the alphabet in A B C ... X Y Z, numbers and symbols in 1 2 3 ... @ # < order. Each press of ▼ will display a letter in the reverse order, such as Z Y X ... C B A order.

#### 5 Press ► to move the cursor to the next character position.

When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◀ to move backwards in the display.

#### 6 Move the cursor to the last position by pressing ► after entering the title.



When you press ► one more time, the entered title is stored in memory.

#### 7 Press BAND/ESC button to return to the playback display.

☞ Titles remain in memory, even after the disc has been removed from the magazine, and are recalled when the disc is reinserted.

☞ After data for 100 discs has been stored in memory, data for a new disc will overwrite the oldest one.

## **Displaying disc titles**

You can display the title of any disc that has had a disc title entered.

### **1 Press DISP button.**

Press DISP button repeatedly to switch between the following settings:

PLAYBACK MODE (play time) - Disc List

When you select Disc List, the title of the discs set in multi-CD player is shown in the display.

- ⤷ If no title has been entered for the currently playing disc, "NO TITLE" is displayed.
- ⤷ Depending on the multi-CD player you use with this product, display of disc titles is possible.

## **■ Using CD TEXT functions**

You can use these functions only with a CD TEXT compatible multi-CD player.

Some discs have certain information encoded on the disc during manufacture. These discs may contain such information as the CD title, track title, artist's name and playback time and are called CD TEXT discs. Only these specially encoded CD TEXT discs support the functions listed below.

### **Displaying titles on CD TEXT discs**

#### **1 Press DISP button when playing a CD TEXT disc from the multi-CD player.**

Press DISP button repeatedly to switch between the following settings:

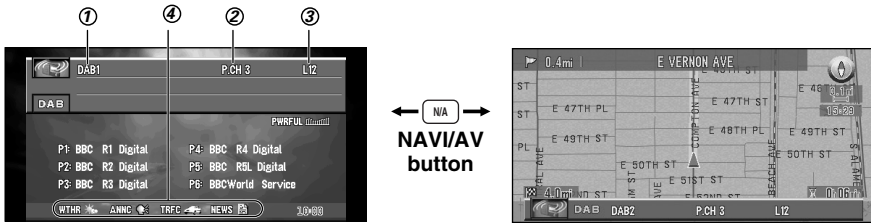
TRACK TITLE (track title) - DISC ARTIST (disc artist name) - TRACK ARTIST (track artist name)

- ⤷ If specific information has not been recorded on a CD TEXT disc, "NO TITLE" will be displayed.

# DAB TUNER

The following explains how to use Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) to control a DAB tuner, which is sold separately. For details of DAB tuner-specific operation/features, see your DAB tuner's manual.

- This cannot be used unless AV Head Unit is combined and the source unit is connected by IP-BUS.
- Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) does not have the language filter function.
- With Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400), you can operate three additional functions: available service list, available PTY search, displaying dynamic label.



## ① BAND

Shows which band the DAB is tuned to, DAB1, DAB2, DAB3.

## ② PRESET NUMBER

Shows what preset has been selected.

## ③ Service label

Shows to which Service the tuner is tuned.

## ④ Icons for AS (Announcement support)

The icon changes depending on the setting of the announcement support function and the status of the incoming data.

### AS (Announcement support) status icon (ex: Traffic icon)

	<b>(White characters) :</b> Information interruption is ON, but you will not receive data since there is none.
	<b>(Icon only) :</b> Even if the information interruption is turned OFF, data is still received. (You can receive when information interruption is turned ON.)
	<b>(Blue characters) :</b> The information interruption is turned ON, and currently receiving data.
	<b>(Flash) :</b> Information interruption is turned ON, but reception has deteriorated, so it is searching for another available frequency.
	<b>(No display) :</b> Information interruption is turned OFF, and no data is being received.

## DAB status indications

Indicator	Status
EXTRA	The currently received service has a secondary service component.
TXT	The currently received service has a dynamic label.
DAB	When DAB reception is possible.

### ■ How to listen to DAB

- 1 Press **SOURCE** button to select the DAB tuner.
- 2 Use **VOL** dial to adjust the sound level.  
Rotate to increase or decrease the volume.
- 3 Press **BAND/ESC** button to select a band.  
Press BAND/ESC button until the desired band is displayed, DAB1, DAB2, DAB3.
- 4 Press **◀** or **▶** to select a service.  
The service move up or down step by step.
- 5 Press and hold **◀** or **▶** for one second and release to select an ensemble.

### ■ Switching the display

- 1 Press **DISP** button to select the desired display.  
Press DISP button repeatedly to switch between the following displays:  
Service Label and Preset channel list - Service Label and Service Component Label - Service Label and Dynamic Label - Service Label and Ensemble Label - Service Label and PTY Label.
- ☞ With a service component that has no service component label or dynamic label, neither is displayed when you switch to service component label and dynamic label.

### ■ Using dynamic label

Dynamic label provides character information concerning the service component you're currently listening to. You can scroll the displayed information.

- ☞ The tuner automatically memorizes the three latest dynamic label received, replacing text from the least recent reception with new text when it is received.

#### Displaying dynamic label

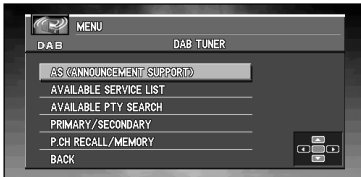
- 1 Press **PAUSE** on the Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) to display dynamic label.
  - ☞ Press the PAUSE on the Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) once more, or press the BAND/ESC button, and the dynamic label mode is canceled.
  - ☞ When no dynamic label is currently being received, "NO TEXT" is displayed.
- 2 Press **◀** or **▶** to recall the three most recent dynamic label.
  - ☞ Pressing **◀** or **▶** switches between the current and the three dynamic label data displays.
  - ☞ If there is no dynamic label data in memory the display will not change.

## ■ **Displaying the DAB TUNER MENU**

- 1 Press A.MENU (AUDIO) button when source is DAB.**
- 2 Select “DAB TUNER” and press A.MENU (AUDIO) button.**

The DAB TUNER MENU is displayed as follows:

AS (ANNOUNCEMENT SUPPORT), AVAILABLE SERVICE LIST, AVAILABLE PTY SEARCH, PRIMARY/SECONDARY, P.CH RECALL/MEMORY



You can operate a desired function. For details, refer to the pages for each of the functions.

- Select “BACK” in the MENU display or press BACK/FUNC button to return to the previous display.
- To return to the frequency display, press BAND/ESC button.
- If you do not operate the function within about 30 seconds, the display is automatically returned to the frequency display.

## ■ **Setting the announcement support interruption**

Even when listening to non-DAB sources, the Announcement Support Function lets you automatically listen to set Announcement Support. When the interrupting announcement ends, play returns to the original source.

When listening to a DAB broadcast, you can switch setting for announcement interruption ON/OFF, except for Alarm announcements. Switching between Announcements is as follows:

### **Announcement that is always ON:**

Alarm (Alarm)

### **Announcements operated with the Function Menu:**

#### **TRAFFIC (“TRFC” icon) :**

Road Traffic Flash

Transport Flash

#### **NEWS (“NEWS” icon) :**

News Flash (News)

#### **WEATHER (“WTHR” icon) :**

Weather Flash

#### **ANNOUNCE:**

Warning/Service (Warning)

Event Announcement (Event)

Special Event (Special Event)

Finance (Finance)

Sports (Sports)

Information (Information)

- 1 Press ▲ or ▼ to select “AS (ANNOUNCEMENT SUPPORT)” from the DAB TUNER MENU, and press A.MENU (AUDIO) button.
- 2 Press ◀ or ▶ to select “TRAFFIC”, “ANNOUNCE”, “NEWS” or “WEATHER”.
- 3 Press ▲ or ▼ to select “ON” or “OFF”.

## ■ **Selecting services from the available service list**

The available service list lets you see the list of available services and select one of them to receive, if the currently received ensemble has multiple services.

- 1 Press ▲ or ▼ to select “AVAILABLE SERVICE LIST” from the DAB TUNER MENU, and press A.MENU (AUDIO) button.
- 2 Press ▲ or ▼ to select the service you want to listen to from the AVAILABLE SERVICE LIST, and press A.MENU (AUDIO) button.

You can listen to the selected service.

## ■ **Searching the available PTY**

Available PTY search lets you see the list of available PTYs that is in the current ensemble and select one of them to receive.

↪ Available PTY search function is different from PTY search function. With Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400), you can operate only the available PTY search.

**1 Press ▲ or ▼ to select “AVAILABLE PTY SEARCH” from the DAB TUNER MENU, and press A.MENU (AUDIO) button.**

**2 Press ▲ or ▼ to select a program type.**

**3 Press A.MENU (AUDIO) button to begin the search.**

↪ The PTY method displayed is narrow. The wide method cannot be selected when using DAB as the source.

↪ If there is no available PTY in the current ensemble, you cannot switch to the available PTY search mode.

↪ If no service broadcasting the selected programming type is found, “NOT FOUND” is displayed briefly, and the DAB tuner returns to the previous service.

## ■ **Service component function**

If the currently received Service has a Secondary Service Component (“EXTRA” indicator lights), Service Component switching is possible.

**1 Press ▲ or ▼ to select “PRIMARY/SECONDARY” from the DAB TUNER MENU, and press A.MENU (AUDIO) button.**

**2 Press ◀ or ▶ to select the item you want to adjust.**

## ■ **P.CH RECALL/MEMORY Function**

You can memorised the desired service and recall the service from the P.CH lists of every 6 services displayed.

**1 Press ▲ or ▼ to select “P.CH RECALL/MEMORY” from the DAB TUNER MENU, and press A.MENU (AUDIO) button.**

**2 Press ◀ or ▶ for 0.5 seconds or more to select a ensemble.**

**3 Press ▲ or ▼ to select the ensemble you want to memorize.**

**4 Press A.MENU (AUDIO) button for 2 seconds or more to memorize the selected service.**

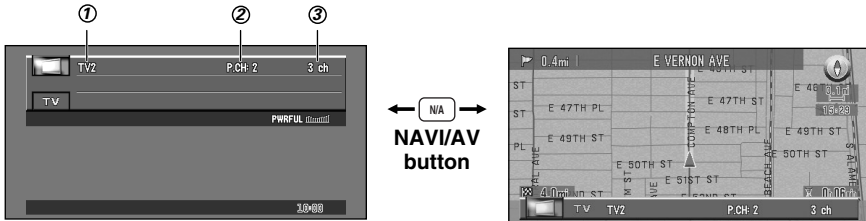
↪ Press A.MENU (AUDIO) button for 0.5 of a second to recall the previously memorised service.



# TV TUNER

The following explains how to use Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) to control a TV tuner, which is sold separately.

- This cannot be used unless AV Head Unit is combined and the source unit is connected by IP-BUS.
- With Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400), you can operate preset channel list as one additional function.
- Press DISP button to switch between TV and P.CH list displays.



- ① **BAND**  
Shows which band the TV is tuned to, TV1, TV2.
- ② **PRESET NUMBER**  
Shows what preset has been selected.
- ③ **CHANNEL**  
Shows what channel has been selected.

## ■ How to watch TV

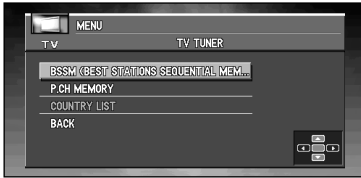
- 1 **Press SOURCE button to select the TV tuner.**
- 2 **Use VOL dial to adjust the sound level.**  
Rotate to increase or decrease the volume.
- 3 **Press ◀ or ▶ to tune in to a station.**
  - If you press and hold ◀ or ▶ for about one second and then release, you can perform seek tuning.

## ■ **Displaying the TV TUNER MENU**

- 1 Press **A.MENU (AUDIO)** button when source is TV.
- 2 Select **“TV TUNER”** and press **A.MENU (AUDIO)** button.

The TV TUNER MENU is displayed as follows:

**BSSM (BEST STATIONS SEQUENTIAL MEMORY), P.CH MEMORY**



You can operate a desired function. For details, refer to the pages for each of the functions.

- Select **“BACK”** in the MENU display or press **BACK/FUNC** button to return to the previous display.
- To return to the frequency display, press **BAND/ESC** button.
- If you do not operate the function within about 30 seconds, the display is automatically returned.

## ■ **BSSM (Best Station Sequential Memory)**

The BSSM function automatically memorizes strongly transmitted broadcast stations in order from the lowest channel up.

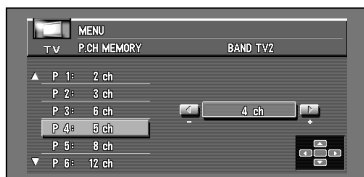
- 1 Press **BAND/ESC** button to display the **BAND** you want to use for BSSM.
- 2 Select **“BSSM (BEST STATIONS SEQUENTIAL MEMORY)”** from the **TV TUNER MENU**, and press **A.MENU (AUDIO)** button.
- 3 Press **▲** to turn BSSM on.

BSSM turns to green. While BSSM is green the 12 strongest broadcast frequencies will be stored in order of their signal strength. When finished, BSSM returns to the normal color.

- To cancel the storage process, press **▼**.
- Up to 12 stations can be memorised in 1 Band.
- In regions where reception of no more than 12 station is possible, previously memorised stations may remain in memory.

## ■ Storing broadcast stations

- 1 Press **▲** or **▼** to select “P.CH MEMORY” from the TV TUNER MENU, and press **A.MENU (AUDIO)** button.
- 2 Pressing **◀** or **▶** for one second enables fine frequency adjustment.
- 3 Press **▲** or **▼** to select the **Preset No.** you want to use to memorize. Press **◀** or **▶** for two or more seconds. When you stop pressing, a strong broadcast is received.
  - ▶ : Starts seek from a high frequency.
  - ◀ : Starts seek from a low frequency.



Press the opposite **◀** or **▶** to the one you pressed to start seek to stop it.

- 4 Press **A.MENU (AUDIO)** button the frequency is memorized.
- ↻ Up to 12 stations can be memorized in one band.

## ■ Recalling broadcast stations

- 1 Press **▲** or **▼** to select a **Preset CH.**

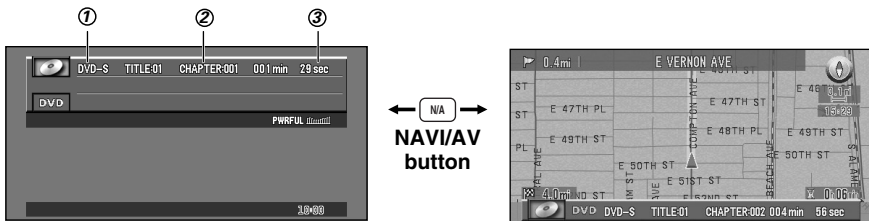
## ■ Changing a band

- 1 Press **BAND/ESC** button to select the desired band.  
Press **BAND/ESC** button repeatedly to switch between the following bands:  
TV 1 - TV 2

# DVD

The following explains how to use Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) to control a DVD, which is sold separately. For details of DVD player or Multi-DVD player operation/features, see your product's manual.

- This cannot be used unless AV Head Unit is combined and the source unit is connected by IP-BUS.
- In case of using the build-in DVD player of AVIC-9DVD, see the "Operation manual" of AVIC-9DVD.
- In case of using the build-in DVD player of AVIC-90DVD, see "Hardware manual" of AVIC-90DVD.
- You cannot play DVD-Video with the built-in DVD-ROM drive of AVIC-80DVD.
- For other equipment, see "DVD Operation Reference Table" on page 177, table indicating the differences of DVD operations, or the operation manual of that equipment.
- Read this chapter when you play CD or Video CD with the DVD player being combined. Even when CD is played, the source will be set to DVD. (It will not indicate it as CD.)



- ① **TITLE**  
Shows the title number currently playing.
- ② **CHAPTER (or TRACK)**  
Shows the chapter number currently playing.
- ③ **TIME**  
Shows the elapsed playing time of the current chapter (or track).

## ■ How to watch DVD

- 1 **Set a DVD (or CD) to DVD player.**  
Playback will automatically start.  
The DVD disc's menu may be displayed.
- 2 **Use VOL dial to adjust the sound level.**  
Rotate to increase or decrease the volume.
- 3 **To perform fast forward or reverse, press and hold control stick right or control stick left.**
- 4 **To skip back or forward to another track, move the NEXT/PREV control to NEXT side or PREV side.**  
Move the NEXT/PREV control to NEXT side skips to the start of the next chapter (or track). Move the NEXT/PREV control to PREV side once skips to the start of the current chapter (or track). Move again will skip to the previous track.

- ⌚ If you continue pushing the control stick right or left for 5 seconds, the color of the fast forward or reverse mark changes from white to blue. When this happens, fast forward or reverse continues even if you release the control stick. To resume playback at a desired point, move the control stick up.

## ■ **Displaying the DVD MENU**

- 1 Press **A.MENU (AUDIO)** button when source is DVD.
- 2 Select **“DVD”** and press **A.MENU (AUDIO)** button.

The DVD MENU is displayed as follows:

REPEAT - RANDOM - SCAN - PAUSE - ITS (INSTANT TRACK SELECTION)  
PLAY - ITS (INSTANT TRACK SELECTION) MEMORY



You can operate a desired function. For details, refer to the pages for each of the functions.

- ⌚ RANDOM, SCAN and PAUSE are available of the playing CDs.
- ⌚ ITS (INSTANT TRACK SELECTION) PLAY and ITS (INSTANT TRACK SELECTION) MEMORY are available of the connecting the Multi-DVD player. (As this function and operation, refer to the Owner's manual of the Multi-DVD player.
- ⌚ Select **“BACK”** in the MENU display or press BACK/FUNC button to return to the previous display.
- ⌚ To return to the playback display, press BAND/ESC button.
- ⌚ If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

## ■ **Information indications are displayed**

- 1 **When the source is DVD, press DISP button.**

Each time you press DISP button, the displayed information changes.

**When the operation mode switch is AUDIO:**

PLAYBACK MODE (play time) - DVD Display (DVD's video)

**When the remote control operation mode switch is DVD:**

Information Display 1 - Information Display 2 - No information display - Return to Information Display 1

- ⌚ The DISP on Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) is the same function, as DISP button when the operation mode switch is AUDIO.
- ⌚ With Information Display 1, you can search for a desired scene by specifying Title, Chapter or Time, and switch the audio, subtitle and angle settings.
- ⌚ You can also specify Title, Chapter and Time with Information Display 2. With Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400), Track up/down does not work with the Multi-DVD player.

## ■ **Disc Playback**

### 1 **Move the control stick up.**

- Move the control stick up when a disc is playing, pauses playback.
- If the last disc played was a DVD, playback starts from the point on that disc where you stopped play previously. With some discs, a menu may be displayed and playback may not be possible from where you left off previously.

## ■ **Chapter and Track Advance/Return**

Skipping to the Next Chapter/Track.

### 1 **During play, move the NEXT/PREV control to NEXT side once.**

## ■ **Returning to the Previous Chapter/Track**

### 1 **During play, move the NEXT/PREV control to PREV side once.**

You return to the beginning of the current chapter/track.

Move the NEXT/PREV control to PREV side twice in succession takes you to the beginning of the chapter/track before the current chapter/track.

## ■ **Specifying Title/Chapter/Track (Direct Search)**

### **Specifying Title**

#### 1 **Press the numeric keypad corresponding to a desired title number when the disc is stopped.**

To select 3, press 3.

To select 10, press +10 and 0 in order.

To select 23, press +10, +10 and 3 in order.

### **Specifying Chapter**

#### 1 **Press the numeric keypad corresponding to a desired chapter number during playback.**

To select 3, press 3.

To select 10, press +10 and 0 in order.

To select 23, press +10, +10 and 3 in order.

### **Specifying Track**

#### 1 **Press the numeric keypad corresponding to a desired track number.**

To select 3, press 3.

To select 10, press +10 and 0 in order.

To select 23, press +10, +10 and 3 in order.

- With some discs, the prohibited mark "⊘" may be displayed and operation may not be possible.

## ■ *Disc Fast Forward/Reverse*

### *Fast Forward*

- 1 **During play, move the control stick right.**
  - 2 **Release the control stick at the point you want to watch/listen.**  
Playback resumes from that point.
- ☞ If you continue pushing the control stick right for 5 seconds, the color of the fast forward mark changes from white to blue. When this happens, fast forward continues even if you release the control stick. To resume playback at a desired point, move the control stick up.
  - ☞ If you fast forward to the end of a CD, fast forward continues from the beginning of the disc.
  - ☞ Fast forward may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.

### *Fast Reverse*

- 1 **During play, move the control stick left.**
  - 2 **Release the control stick at the point you want to watch/listen.**  
Playback resumes from that point.
- ☞ If you continue pushing the control stick left for 5 seconds, the color of the fast reverse mark changes from white to blue. When this happens, fast reverse continues even if you release the control stick. To resume playback at a desired point, move the control stick up.
  - ☞ If you fast reverse to the beginning of a CD, normal playback resumes.
  - ☞ Fast reverse may not be possible at certain locations on some discs. If this happens, normal playback automatically resumes.

## ■ *Stopping Playback*

- 1 **Press ■ (STOP) button.**
- ☞ When you stop DVD or Video CD playback (during PBC playback only) by pressing ■ (STOP) button, that location on the disc is memorized enabling playback from that point when you play the disc again.

## ■ *Still, Frame-by-Frame and Slow Motion Playback*

### *Still Playback*

This lets you pause playback and view a still picture.

- 1 **Move the control stick up during playback.**
- ☞ To return to normal playback, move the control stick up once more.

### *Frame-by-Frame Playback*

This lets you move ahead one frame at a time during playback.

- 1 **Press ■▶ (GUIDE) button.**  
Each time you press ■▶ (GUIDE) button, you move ahead one frame.
- ☞ To return to normal playback, move the control stick up.

## **Slow Motion Playback**

This lets you slow down playback speed.

### **1 Press **III▶** (GUIDE) button for 1 second during playback.**

To return to normal playback, move the control stick up.

- ⤷ There is no sound during Still, Frame-by-Frame or Slow Motion playback.
- ⤷ Depending on the disc and the playback location on the disc, the prohibited mark "⊘" may be displayed indicating that Still, Frame-by-Frame and Slow Motion playback are not possible.
- ⤷ With some discs, images may be unclear during Frame-by-Frame and Slow Motion playback.
- ⤷ Reverse Frame-by-Frame playback and Reverse Slow Motion playback are possible, only connecting the XDV-P9 or XDV-P90 by the **◀III** (CANCEL ROUTE) button.

## **■ Operating using Information Display 1**

Specify Title, Chapter or Time to search for a desired scene and play it back.

### **1 Push the joystick left/right to select Title or Chapter (or Track) in Information Display 1.**

The selected item is indicated in green.

### **2 Push the joystick up/down to indicate the desired number.**

### **3 Press the joystick directly down to complete selection.**

- ⤷ You can also specify a Title, Chapter or Time directly without using an Information Display. (Refer to page 132).
- ⤷ With discs that feature menus, you can press MENU button to select for display of menu indications.
- ⤷ Some discs may feature a prohibited mark, indicating that display of Title and Chapter indications is not possible.
- ⤷ You cannot specify a Chapter when in the Stop mode.
- ⤷ If you perform no operation for about eight seconds, the specified number becomes invalid.

## **Specifying time**

You can specify a time from which playback starts. (Time search)

### **1 Push the joystick left/right to select Time in Information Display 1.**

The selected item is indicated in green.

### **2 Input the desired time with the numeric keypad.**

**Examples:**

10 minutes 09 seconds: press 1, 0, 0, and 9 in order.

78 min 00 sec: press 7, 8, 0 and 0 in order.

Press CLEAR button to delete input numbers.

### **3 Press the joystick directly down to complete selection.**

- ⤷ Some discs may feature a prohibited mark, indicating that display of Title and Chapter indications is not possible.
- ⤷ You cannot specify a Time in the Stop mode.
- ⤷ If you perform no operation for about eight seconds, the specified number becomes invalid.



### **Switching audio, subtitle and angle**

You can change audio, subtitle and angle if that information is recorded on the disc.

- 1 Push the joystick left/right to select AUDIO, S.TITLE or ANGLE in Information Display 1.**

The selected item is indicated in green.

- 2 Push the joystick up/down to select a desired setting, and press.**

☞ You can change audio, subtitle and angle settings during playback with AUDIO, S.TITLE and ANGLE.

### ■ **Operating with Information Display 2**

With Information Display 2, you can set Repeat play range and audio L/R settings. You can also specify a Title, Chapter and Time.

#### **Switching Repeat play range**

You can set Repeat play range for a Disc, Title or Chapter. (Repeat play)

- 1 Push the joystick left/right to select Repeat play range in Information Display 2.**

The selected item is indicated in green.

- 2 Push the joystick up/down to select the desired setting, and press.**

☞ With Repeat play of a Disc, when the last chapter on the disc has been played, a menu is displayed or playback stops.

☞ Push the joystick left/right to select AUDIO, S.TITLE or ANGLE in Information Display 1.

#### **Switching audio L/R**

You can select between Audio L+R and L+R.

- 1 Push the joystick left/right to select Audio in Information Display 2.**

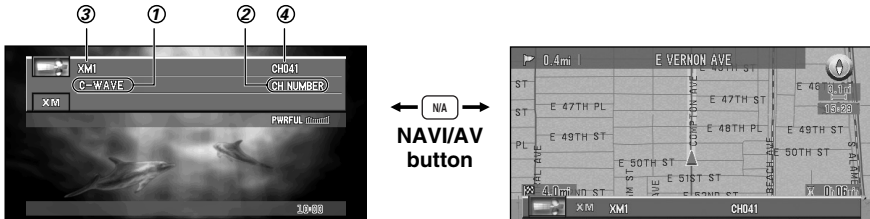
The selected item is indicated in green.

- 2 Push the joystick up/down to select the desired setting.**

For details concerning operation using the DVD player's SET-UP menu, refer to the DVD player's Owner's manual.
--

You can use Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) to control XM satellite digital tuner (GEX-P910XM), which is sold separately. For details concerning operation, refer to the XM tuner's operation manuals. This section provides information on XM operations with Pioneer AV Head Unit which differs from that described in the XM tuner's operation manual.

- ☞ This cannot be used unless AV Head Unit is combined and the source unit is connected by IP-BUS.



## ① CH NAME

Shows what channel select mode has been selected. CH.Number is displayed when CH NUMBER is selected, and CATEGORY is displayed when category is selected.

## ② CH NUMBER

Shows to which channel number the tuner is tuned.

## ③ BAND

Shows the band which has been selected.

## ④ P.CH (Preset channel)

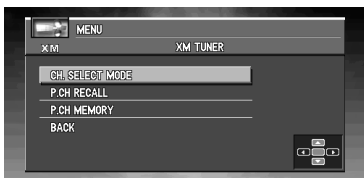
Shows what preset has been selected.

## ■ How to listen to the XM

- 1 Press **SOURCE** button to select the **XM**.
- 2 Use **VOL** dial to adjust the sound level.  
Rotate to increase or decrease the volume.
- 3 Press **BAND/ESC** button to select a band.  
Press **BAND/ESC** button until the desired band is displayed, XM1, XM2 or XM3.
- 4 Select the desired channel with **◀** or **▶**.

## ■ Displaying the XM MENU

- 1 Press **A.MENU (AUDIO)** button when source is XM.
- 2 Select **"XM TUNER"** and press **A.MENU (AUDIO)** button.  
The XM MENU is displayed as follows:  
CH.SELECT MODE, P.CH RECALL, P.CH MEMORY



You can operate a desired function. For details, refer to the pages for each of the functions.

- ⌚ Select **"BACK"** in the MENU display or press **BACK/FUNC** button to return to the previous display.
- ⌚ To return to the frequency display, press **BAND/ESC** button.
- ⌚ If you do not operate the function within about 30 seconds, the display is automatically returned to the frequency display.

## ■ Switching the channel select mode

You can switch if you select a Channel with a Channel NUMBER or from a Channel Category when you select a channel.

- 1 Press **▲** or **▼** to select **"CH.SELECT MODE"** from the **XM TUNER MENU**, and press **A.MENU (AUDIO)** button.
- 2 Press **◀** or **▶** to select the desired channel select mode.  
CH NUMBER (Channel number select mode) - CATEGORY (Channel category select mode)

## ■ Recalling channel

If you press **▲** or **▼** you can easily store up to six previously registered channels with the **▲** or **▼** button.

- 1 Press **▲** or **▼** to select **P.CH RECALL** from the **XM TUNER MENU**, and press **A.MENU (AUDIO)** button.
- 2 Select a preset channel number with **▲** or **▼** and press **A.MENU (AUDIO)** button.  
When you have finished, press **BAND/ESC** button to return to the source display.

## ■ **Storing the channel**

Once stored in memory, you can easily select a desired channel from the P.CH RECALL.

- 1 Press **▲** or **▼** to select “P.CH MEMORY” from the XM TUNER MENU, and press **A.MENU (AUDIO)** button.
- 2 Adjust channel with **◀** or **▶**.
- 3 Select a preset channel number with **▲** or **▼** and press **A.MENU (AUDIO)** button.
- 4 If you want to preset channel one after another, use **▲** or **▼** to move to the next preset channel you want to use to store a channel, and perform the same operation.  
When you have finished, press **BAND/ESC** button to return to the source display.

## ■ **Display the ID Code**

Each XM tuner is identified with a unique radio ID. You will need the radio ID when activating XM service or when reporting a problem. How to display the ID code depends on the channel select mode.

### **Channel number select mode**

If you select CH 000, the ID code is displayed.

- 1 Select the “CH 000” with the **◀ / ▶**.

### **Channel category select mode**

RADIO ID is provided as a channel category for displaying the ID code.

- 1 Select the Channel Category RADIO ID with the **▲ / ▼**.

- If you select another channel, display of the ID code is canceled.
- Display of the ID code repeats displaying.

RADIO ID and the ID code one after the other.

## ■ **Switching the Display**

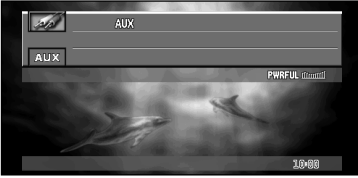
Each XM channel has a channel number and channel name. XM programming also carries song or program title, artist name and category, when available.

- 1 Press **DISPLAY** button.

Press **DISPLAY** button repeatedly to switch between the following settings.

Channel name - Artist name/feature - Song/program title - Channel number - Channel category

### AUX



### VIDEO



### External



## ■ When source is EXT

### 1-6 KEY

- 1 Press ▲ or ▼ to select "1-6 KEY", and press A.MENU (AUDIO) button.
- 2 Press ◀ or ▶ to select the desired key number.
- 3 Press ▲ or ▼ to transmit signals of key command.

### FUNCTION1-4

- 1 Press ▲ or ▼ to select "FUNCTION1" - "FUNCTION4", and press A.MENU (AUDIO) button.
- 2 Press ▲ or ▼ to transmit signals.

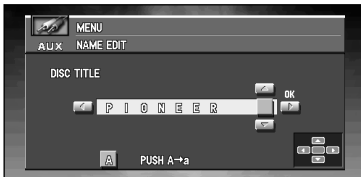
### AUTO/MANUAL

- 1 Press ▲ or ▼ to select "AUTO/MANUAL", and press A.MENU (AUDIO) button.
- 2 Press ◀ or ▶ to select "AUTO" or "MANUAL".

## ■ When source is AUX

### NAME EDIT

- 1 **Select “NAME EDIT” and press A.MENU (AUDIO) button.**
- 2 **Press A.MENU (AUDIO) button to select the desired character type.**  
Press A.MENU (AUDIO) button repeatedly to switch between the following character type:  
Alphabet(upper case), Number and Symbols-Alphabet(lower case)
- 3 **Press ▲ or ▼ to select a letter of the alphabet.**  
Each press of ▲ will display a letter of the alphabet in A B C ... X Y Z, numbers and symbols in 1 2 3 ... @ # < order. Each press of ▼ will display a letter in the reverse order, such as Z Y X ... C B A order.
- 4 **Press ► to move the cursor to the next character position.**  
When the letter you want is displayed, press ► to move the cursor to the next position and then select the next letter. Press ◀ to move backwards in the display.
- 5 **Move the cursor to the last position by pressing ► after entering the title.**



When you press ► one more time, the entered title is stored in memory.

- 6 **Press BAND/ESC button to return to the playback display.**

## ■ When source is VIDEO

If you want to switch VIDEO source, select “VIDEO” in the SET-UP MENU. (Refer to page 150.)

# Audio Adjustments

The display for AUDIO MENU is the same regardless of which source you operate from.

## ■ Displaying the AUDIO MENU

- 1 Press **A.MENU (AUDIO)** button in each source display.  
MENU is displayed.
- 2 Press **▲** or **▼** to select “AUDIO”, and press **A.MENU (AUDIO)** button.

The AUDIO MENU is displayed as follows:

FADER/BALANCE (fader/balance adjustment), EQUALIZER MENU (equalizer curve adjustment), BASS (bass), TREBLE (treble), LOUDNESS (loudness), SUB WOOFER (subwoofer), NON FADING(non fading), HPF (HIGH PASS FILTER), SLA (SOURCE LEVEL ADJUSTMENT)



You can operate a desired function. For details, refer to the pages for each of the functions.

“NON FADING” is only displayed when “S.W. CONTROL:EXTERNAL” is set in INITIAL SETTINGS MENU. (SUB WOOFER is not displayed.)

- ↪ When the subwoofer controller setting is “S.W. CONTROL:INTERNAL” or “REAR SPEAKER:SUBWOOFER”, you can switch the “SUB WOOFER”. (Refer to page 149.)
- ↪ When the subwoofer controller setting is only “S.W. CONTROL:EXTERNAL”, you can switch the non fading output on/off mode. (Refer to page 149.)
- ↪ When selecting the FM tuner as the source, you cannot switch to “SLA”.
- ↪ Select “BACK” in the MENU display or press BACK/FUNC button to return to the previous display.
- ↪ To return to the playback display, press BAND/ESC button.
- ↪ When the setting is REAR SPEAKER:SUBWOOFER, FADER/BALANCE indications are for BALANCE.
- ↪ If you do not operate the audio function within about 30 seconds, the display is automatically returned to the source display.

## ■ Setting the sound focus equalizer

Clarifying the sound image of vocals and instruments allows the simple staging of a natural, pleasant sound environment.

Even greater listening enjoyment will be obtained if seating positions are chosen carefully.

- FRONT1 boosts the treble on the front output and the bass on the rear output.
- FRONT2 boosts the treble and the bass on the front output and the bass on the rear output. (The bass boost is the same for both front and rear.)

For both FRONT1 and FRONT2 the H setting provides a more pronounced effect than the L setting.

- 1 Press **SFEQ** on Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) to select the desired SFEQ mode.

FRONT1-H - FRONT 1-L - FRONT 2-H - FRONT2-L - CUSTOM - OFF

- 2 Press **◀** or **▶** to select the desired position.

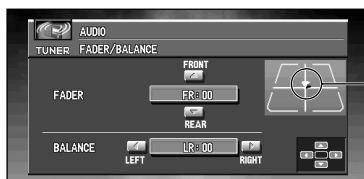
LEFT - CENTER - RIGHT

- If you adjust the bass or treble, CUSTOM memorizes an SFEQ mode in which the bass and treble are adjusted for personal preference.
- If you switch the SFEQ mode, the HPF (HIGH PASS FILTER) function is automatically switched off. By switching the HPF (HIGH PASS FILTER) function on after selecting the SFEQ mode, you can combine HPF (HIGH PASS FILTER) function with SFEQ function.

## ■ Using balance adjustment

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

- 1 Press **▲** or **▼** to select “AUDIO” from the MENU, and press **A.MENU (AUDIO)** button.
- 2 Press **▲** or **▼** to select “FADER/BALANCE (or “BALANCE”)", and press **A.MENU (AUDIO)** button.



Center of acoustic field

Each press of **▲** or **▼** moves the front/rear speaker balance towards the front or the rear.

- FRONT:15 - REAR:15 is displayed as the front/rear speaker balance moves from front to rear.
  - FR:00 is the proper setting when only two speakers are used.
  - When the rear output setting is REAR SPEAKER: SUBWOOFER, you cannot adjust front/rear speaker balance. (Refer to Setting the rear output and subwoofer controller on page 149.)
- 3 Press **◀** or **▶** to adjust left/right speaker balance.  
Each press of **◀** or **▶** moves the left/right speaker balance towards the left or the right.
    - LEFT:9 - RIGHT:9 is displayed as the left/right speaker balance moves from left to right.



## ■ Using the equalizer

The graphic equalizer lets you adjust the equalization to match car interior acoustic characteristics as desired.

### Recalling equalizer curves

There are seven stored equalizer curves which you can easily recall at any time. Here is a list of the equalizer curves:

Display	Equalizer curve
SUPER BASS	Super bass
POWERFULL	Powerful
NATURAL	Natural
VOCAL	Vocal
CUSTOM1,2	Custom1,2
FLAT	Flat

- ↻ CUSTOM1 and CUSTOM2 are adjusted equalizer curves.
- ↻ A separate CUSTOM1 curve can be created for each source. (The CD player and Multi-CD player are set to the same Equalizer Curve Adjustment setting automatically when using the AVH-P6400CD.)
- ↻ If you make adjustments when a curve other than CUSTOM2 is selected, the equalizer curve settings are memorized in CUSTOM1.
- ↻ A CUSTOM2 curve can be created common to all sources.
- ↻ If you make adjustments when the CUSTOM2 curve is selected, the CUSTOM2 curve is updated.
- ↻ When FLAT is selected no supplement or correction is made to the sound. This is useful to check the effect of the equalizer curves by switching alternatively between FLAT and a set equalizer curve.

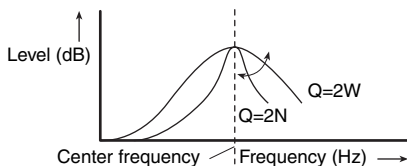
#### 1 Press EQ on Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) to select the equalizer.

Press EQ on Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) repeatedly to switch between the following equalizer.

SUPER BASS - POWERFUL - NATURAL - VOCAL - CUSTOM1 - CUSTOM2 - FLAT

## Adjusting equalizer curves

You can adjust the currently selected equalizer curve setting as desired. Adjusted equalizer curve settings are memorized in CUSTOM1 or CUSTOM2.



- 1 Press **▲** or **▼** to select “EQUALIZER MENU” from the AUDIO MENU, and press **A.MENU (AUDIO)** button.

The EQUALIZER MENU is displayed.

BAND (band), LEVEL (adjustment level), FREQUENCY (Center frequency), Q FACTOR (quality factor)

- 2 Select the equalizer band you want to adjust with **◀ / ▶**.

**BAND (band) :** LOW (low) - MID (mid) - HIGH (high)

**LEVEL (adjustment level) :** +6 - -6 is displayed as the adjustment level is increased or decreased.

**FREQUENCY (Center frequency)**

**LOW :** 40 - 80 - 100 - 160 (Hz)

**MID :** 200 - 500 - 1 k - 2 k (Hz)

**HIGH :** 3.15 k - 8 k - 10 k - 12.5 k (Hz)

**Q FACTOR (quality factor) :** 2 N - 1 N - 1 W - 2 W

- ↪ If you make adjustments when a curve other than CUSTOM2 is selected, CUSTOM1 curve is updated.

## ■ Adjusting bass

You can adjust the cut-off frequency and the bass level.

- ↪ In FRONT1 mode, bass adjustment affects only the rear output: front output cannot be adjusted.

- 1 Press **▲** or **▼** to select “BASS” from the AUDIO MENU, and press **A.MENU (AUDIO)** button.

- 2 Press **▲** or **▼** to adjust the bass level.

Each press of **▲** or **▼** increases or decreases the bass level. +6 - -6 is displayed as the level is increased or decreased.

- 3 Select the desired frequency with **◀ / ▶**.

40 - 63 - 100 - 160 (Hz)

## ■ Adjusting treble

You can adjust the cut-off frequency and the Treble level.

☞ In FRONT1 and FRONT2 modes, treble adjustment affects only the front output: rear output cannot be adjusted.

- 1 Press **▲** or **▼** to select “TREBLE” from the AUDIO MENU, and press A.MENU (AUDIO) button.
- 2 Press **▲** or **▼** to adjust the treble level.  
Each press of **▲** or **▼** increases or decreases the bass level. +6 - -6 is displayed as the level is increased or decreased.
- 3 Select the desired frequency with **◀** / **▶**.  
2.5k - 4k - 6.3k - 10k (Hz)

## ■ Adjusting loudness

Loudness compensates for deficiencies in the low- and high-sound ranges at low volume.

- 1 Press **▲** or **▼** to select “LOUDNESS” from the AUDIO MENU, and press A.MENU (AUDIO) button.
- 2 Press **▲** to turn loudness on.  
Loudness level (e.g., LOUDNESS:ON/MODE:MID) appears in the display.
- 3 Press **◀** or **▶** to select the level.  
LOW - MID - HIGH
- 4 Press **▼** to turn loudness off.

## ■ Using subwoofer output

Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) is equipped with a subwoofer output which can be switched on or off.

- 1 Press **▲** or **▼** to select “SUB WOOFER” from the AUDIO MENU, and press A.MENU (AUDIO) button.  
When the subwoofer controller setting is S.W. CONTROL:EXTERNAL, you cannot select SUB WOOFER.
- 2 Press **▶** to turn subwoofer output on.



☞ You can turn off subwoofer output by pressing **◀**. If you do not set to “ON”, you cannot select “PHASE”, “LEVEL” or “FREQUENCY”.

- 3 Press **▲** or **▼** to select the item you want to adjust.

#### 4 Press ◀ or ▶ to adjust the item.

PHASE : REVERSE - NORMAL

LEVEL : +6 - -6

FREQUENCY : 50Hz - 80Hz - 125Hz

↳ Only frequencies lower than those in the selected range are output from the subwoofer.

### ■ **Using non fading output**

When the non fading output setting is on, the audio signal does not pass through Pioneer AV Head Unit's (AVH-P6400CD or AVH-P6400) low pass filter (for the subwoofer), but is output through the RCA output.

When the non fading output is on, you can adjust the level of non fading output.

#### 1 Press ▲ or ▼ to select "NON FADING" from the AUDIO MENU, and press A.MENU (AUDIO) button.

When the subwoofer controller setting is "S.W. CONTROL:EXTERNAL", you can select non fading output on/off mode.

#### 2 Press ▲ to turn non fading output on.

↳ You can turn off non fading output by pressing ▼.

#### 3 Press ◀ or ▶ to adjust the output level of the non fading.

Each press of ◀ or ▶ increases or decreases the level of the non fading (e.g., +6 to -6).

### ■ **Using the high pass filter**

When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, switch the HPF (high pass filter) on. Only frequencies higher than those in the selected range are output from the front and rear speakers.

#### 1 Press ▲ or ▼ to select "HPF (HIGH PASS FILTER)" from the AUDIO MENU, and press A.MENU (AUDIO) button.

#### 2 Press ▲ to turn high pass filter on.

↳ To turn high pass filter off, press ▼.

#### 3 Press ◀ or ▶ to select a high pass filter range.

Press ◀ and FREQUENCY:50 Hz is displayed. Press ▶ and 80 Hz, 125 Hz is displayed. Only frequencies higher than those in the selected range are output from the front or rear speakers.

↳ If you switch the SFEQ mode, the HPF (HIGH PASS FILTER) function is automatically switched off. By switching the HPF (HIGH PASS FILTER) function on after selecting the SFEQ mode, you can combine HPF (HIGH PASS FILTER) function with SFEQ function.

## ■ **Adjusting source levels**

SLA (Source level adjustment) lets you adjust the volume level of each source to prevent radical changes in volume when switching between sources.

↪ Settings are based on the volume level of the FM tuner, which remains unchanged.

**1 Compare the FM tuner volume level with the level of the source you wish to adjust.**

**2 Press ▲ or ▼ to select “SLA (SOURCE LEVEL ADJUSTMENT)” from the AUDIO MENU, and press A.MENU (AUDIO) button.**

**3 Press ▲ or ▼ to adjust the source volume.**

Each press of ▲ or ▼ increases or decreases the source volume.

↪ LEVEL:+4 - LEVEL:-4 is displayed as the source volume is increased or decreased.

↪ Since the FM tuner volume is the control, it is not possible to apply source level adjustments to the FM tuner.

↪ The AM tuner volume level can also be adjusted with source level adjustments.

↪ The CD and the multi-CD players are both set to the same source level adjustment volume automatically when using the AVH-P6400CD.

↪ External unit 1 and External unit 2 are set to the same volume adjustment setting automatically.

## Initial Settings

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Initial settings lets you perform initial set up of different settings for Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400).

### ■ **Displaying the INITIAL SETTINGS MENU**

- 1 Press **SOURCE** button and hold until the source off.
- 2 Press **A.MENU (AUDIO)** button and the **OFF SOURCE MENU** is displayed.
- 3 Press **▲** or **▼** to select **“INITIAL SETTINGS”**, and press **A.MENU (AUDIO)** button.  
The INITIAL SETTINGS MENU is displayed as follows:  
DETACH WARNING, AUX (AUXILIARY), REAR SPEAKER, TEL/GUIDE MUTE/ATT



You can operate a desired function. For details, refer to the pages for each of the functions.

Use the following instructions to operate each particular setting.

↶ To cancel initial settings, press **BAND/ESC** button.

### ■ **Switching the warning tone**

If the operation panel of AV Head Unit is not detached from the AV Head Unit within five seconds of turning off the ignition, a warning tone will sound. You can turn off this warning tone.

- 1 Press **▲** or **▼** to select **“DETACH WARNING”** from the **INITIAL SETTINGS MENU**, and press **A.MENU (AUDIO)** button.
- 2 Select **WARNING ON** or **OFF** with **▲/▼**.  
Pressing **▲/▼** will switch **WARNING** between **“ON”** and **“OFF”**.

### ■ **Switching the auxiliary setting**

It is possible to use auxiliary equipment with Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400). Activate the auxiliary setting when using auxiliary equipment connected to Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400).

- 1 Press **▲** or **▼** to select **“AUX (AUXILIARY)”** from the **INITIAL SETTINGS MENU**, and press **A.MENU (AUDIO)** button.
- 2 Select **AUX ON** or **OFF** with **▲/▼**.  
Pressing **▲/▼** will switch **AUX** between **“ON”** and **“OFF”**.

## ■ **Setting the rear output and subwoofer controller**

Pioneer AV Head Unit's (AVH-P6400CD or AVH-P6400) rear output (rear speaker leads output and RCA rear output) can be used for full-range speaker (REAR SPEAKER:FULL) or subwoofer (REAR SPEAKER:SUBWOOFER) connection. If you switch rear output setting to the REAR SPEAKER:SUBWOOFER, you can connect a rear speaker lead directly to a subwoofer without using an auxiliary amp.

Initially, the Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) is set for rear fullrange speaker connection (REAR SPEAKER:FULL).

When rear output are connected to full range speakers (when REAR SPEAKER:FULL is selected), you can connect the RCA subwoofer output to a subwoofer. In this case, you can select whether to use the subwoofer controller's (low pass filter, phase) built-in S.W.CONTROL:INTERNAL or the auxiliary S.W.CONTROL:EXTERNAL.

- ⌚ Even if you change this setting, there is no output unless you switch the non fading output (refer to page 146) or subwoofer output (refer to page 145) in the audio menu on.
- ⌚ If you change the subwoofer controller, subwoofer output and non fading output in the audio menu return to the factory settings.
- ⌚ Both rear speaker leads output and RCA rear output are switched simultaneously in this setting mode.

**1 Press ▲ or ▼ to select "REAR SPEAKER" from the INITIAL SETTINGS MENU, and press A.MENU (AUDIO) button.**

**2 Change the rear output setting with ▲/▼.**

Pressing ▲/▼ will switch between REAR SPEAKER:FULL (full-range speaker) and REAR.SPEAKER:SUBWOOFER (subwoofer).

- ⌚ When no subwoofer is connected to the rear output, select REAR SPEAKER:FULL.
- ⌚ When a subwoofer is connected to the rear output, set for subwoofer REAR SPEAKER:SUBWOOFER.
- ⌚ When the rear output setting is REAR SPEAKER:SUBWOOFER, you cannot change the subwoofer controller.

**3 Change the subwoofer controller with ◀ / ▶.**

Pressing ◀ / ▶ will switch between S.W.CONTROL:INTERNAL and S.W.CONTROL:EXTERNAL.

## ■ **Switching the Telephone Muting/Attenuation**

When a call is made or received using a cellular telephone connected to Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400), when there is a navigation guidance, you can select between muting and attenuation when using the Handsfree Telephone Unit.

**1 Press ▲ or ▼ to select "TEL/GUIDE MUTE/ATT" from the INITIAL SETTINGS MENU, and press A.MENU (AUDIO) button.**

**2 Switch the telephone muting/attenuation with ◀ / ▶.**

Pressing ◀ / ▶ will switch between TELE/GUIDE:MUTE (muting), TELE/GUIDE:ATT (attenuation) and TELE/GUIDE:NORMAL (normal).

**MUTE :** Volume is turned to 0.

**ATT :** Volume is set to 1/4.

**NORMAL :** Volume remains the same.

## Other Functions

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Customize the settings to suit your taste and environment.

### ■ **Displaying the SET UP MENU**

- 1 Press **A.MENU (AUDIO)** button in each source display.
- 2 Press **▲** or **▼** to select “**SETUP**”, and press **A.MENU (AUDIO)** button.

The **SETUP MENU** is displayed as follows:

**VIDEO SETTING, AUTO FLAP, REAR MONITOR**



You can operate a desired function. For details, refer to the pages for each of the functions.

- Select **BACK** in the **MENU** display or press **BACK/FUNC** button to return to the previous display.
- To return to the playback display, press **BAND/ESC** button.

### ■ **Selecting the video**

Set so that only the display video can be selected. The display for this **MENU** is the same regardless of which source you operate from.

- 1 Press **▲** or **▼** to select “**VIDEO SETTING**” from the **SETUP MENU**, and press **A.MENU (AUDIO)** button.

- 2 Press **◀** / **▶** to select “**VIDEO**”.

Press **◀** or **▶** until the desired video setting appears in the display.

**OFF (off)** - **VIDEO (video)** - **BACK UP CAMERA (back up camera)** - **M-DVD (Multi-DVD)**

- If the equipment is connected to a **RCA video input**, choose **VIDEO** to view video of the equipment.
- When using a **DVD player connected with an RCA cable**, if you do not select **M-DVD**, there will be no picture even if you switch sources.
- When using a **DVD player connected with an AV-BUS cable**, do not select **M-DVD**. If you do, there will be no picture.
- If **BACK UP CAMERA** is not connected, do not select **BACK UP CAMERA**.
- If you select “**BACK UP CAMERA**”, press **▼** to move to **BACK UP CAMERA POLARITY**, or use **◀** or **▶** to select **BATTERY** and **GROUND**.



**BATTERY :** When the gear shift is moved to the REVERSE (R) position, and the polarity of the connected lead wire is positive.

**GROUND :** When the gear shift is moved to the REVERSE (R) position, and the polarity of the connected lead wire is negative.

- ☞ Using a commercially available back-up camera with the proper setting, Pioneer AV Head Unit automatically switches to the back-up camera image when the gear shift is moved to the REVERSE (R) position. For more information, consult your dealer or the nearest authorized PIONEER service facility.
- ☞ If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.
- ☞ Verify that the back-up camera image appears on the screen when the gear shift is in the REVERSE (R) position. To return to the previous screen, move the gear shift in any position besides REVERSE (R) or just press the NAVI/AV button.
- ☞ If the back-up camera image appears without getting into reverse gear, the setting for [POLARITY] may be wrong. In that case, try another setting and verify the automatic switching again.
- ☞ The initial setting for [POLARITY] is [BATTERY].
- ☞ If you want to adjust the picture(CONTRAST, COLOR, etc.) for the back up camera, select VIDEO instead of BACK UP CAMERA to get into "VIDEO ADJUST". After making adjustments, reselect BACK UP CAMERA to activate the automatic switching for the back up camera image.

## ■ **Setting the automatic open mode**

To prevent the display from hitting the shift lever of an automatic car when it is in the "P" (park) position, or when you do not wish opening/closing of the display to be carried out automatically, you can switch this function ON/OFF.

**1 Press ▲ or ▼ to select "AUTO FLAP" from the SETUP MENU, and press A.MENU (AUDIO) button.**

**2 Press ◀ to select the manual.**

Press ◀ until the OPEN/CLOSE:MANUAL setting appears in the display. Each time you press a manually set display's EJECT, the display opens or closes.

**3 Press ▶ to select the auto.**

Press ▶ until the OPEN/CLOSE:AUTO setting appears in the display. With auto setting, the display automatically opens or closes when power to Pioneer AV Head Unit (AVH-P6400CD or AVH-P6400) is switched ON.

- ☞ If you do not operate the function within about 30 seconds, the display is automatically returned to the playback display.

## ■ **Switching the image of rear display**

When rear display is combined, you can select either showing navigation images on rear display or the images of each source.

**1 Press ▲ or ▼ to select “REAR MONITOR” from the SETUP MENU, and press A.MENU (AUDIO) button.**

**2 Change the rear display setting with ◀ / ▶.**

Pressing ◀ / ▶ will switch between REAR MONITOR:SOURCE and REAR display:NAVI.

**NAVI :** Navigation images are output from Rear display output on AV Head Unit when a map screen of navigation is displayed on AV Head Unit.

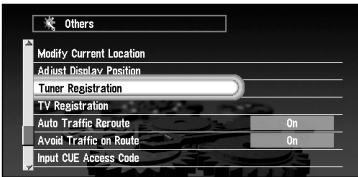
**SOURCE :** Images of the source switched over is output.

⤷ Images of the map screen of the navigation slightly differ from a standard NTSC style. If map screen of the navigation is output from Rear display output on AV Head Unit, the images may not be displayed properly according to a display.

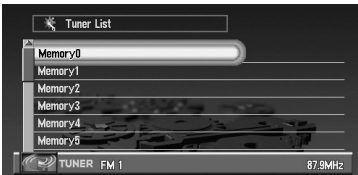
## Calling Radio Stations or TV Stations by Voice

When the AV Head Unit (AVH-P6400CD, AVH-P6400) is combined, you can store the radio frequency or TV channel you are receiving by assigning names to them, and calling them by voice. (You can store 24 stations in Memory 0 to 23 for TUNER, and 12 stations in Memory 24 to 35 for TV.)

- 1 Press **SOURCE** button to select **TUNER** or **TV** source.
- 2 Select **“Tuner Registration”** (or **“TV Registration”**) from the **“Settings Menu”**, and press **OK** button.



- 3 Press the **▲**, **▼**, **◀** or **▶**, and receive the station or channel you want to register.



- 4 Move the joystick up or down to select the memory number you want to memorize, and click the **OK** button.
- 5 Select **“Edit Name & Frequency”** and click the **OK** button.  
On this display, you can select following options:

**Edit Name :** This is selected when changing the name of station or channel previously stored.

**Delete :** Station or channel name in the memory location selected is deleted, and returns to a default setting.

- 6 Enter a **Station (Channel) name**; select **“OK”** and click the **OK** button.

Enter a new name between 6 and 23 characters long. (For the details of entering characters, see **“DVD Operation Reference Table”** on page 35.)



When you click the **OK** button, a message confirming the Station (Channel) name appears, and a voice message confirming the pronunciation of the name is played.

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

The details you set are registered, and the Memory list appears. Now you can use the stations or channels stored for voice recognition.

- Information on the frequencies or channels stored here is used only for voice recognition. It is not displayed on other screens.
- This is stored in another section from the preset channel of the AV Head Unit. It does not correspond to each preset channel number.

## 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 even when the map screen is displayed or audio is operated.

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

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 Control (sold separately), you can press the BAND button and the F button to switch on the operation mode of the Steering Remote Control. When the operation mode is switched on, by pressing the BAND button of the Steering Remote Control, you can activate voice operation, which is equivalent of pressing the TALK button. (“CD-SR90” and “CD-SR100” can be used as well. For the details of their operation, see the instruction manuals attached to them.)
- ☞ When your Navigation System starts, you can also enter the password using your voice.

## ■ **Operating by only voice when the Navigation System is started**

If you set “Auto Voice Recognition” in the Settings menu “ON”, you can operate from entering the password up to route setting by only voice after the engine of your car is started (only when the route is not set).

In this case, the operation is performed as follows:

- 1 **Start the engine of your car.**
- 2 **Confirm the message displayed on the screen, and say “OK” to the microphone.**
- 3 **When the screen to enter password appears, say the set password.**
- 4 **Select and speak a command you want from the commands you can speak (displayed on the screen).**

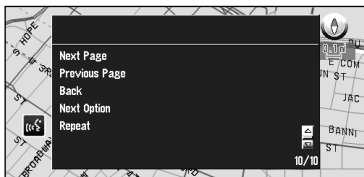
☞ If you press the button on the Remote Control in the middle of the operation, voice operation mode is canceled.

## ■ **Available voice commands related to Navigation**

You can say the following commands:

### **Common commands for all the operations**

Next Page, Previous Page, Back, Next Option, Repeat



### **Specifying your destination**

New Destination, Address Book, Return Home, <your favorite location>, <registered location name>

### **Selecting an item displayed in the list**

Yes, No, Next, Previous

### **Operating the route being guided**

Rerouting, XXmi/km detour, Cancel Route, Cancel Way Point, Route Profile, Use/Avoid Freeway, Use/Avoid Ferry, Use/Avoid Tollroad, Fastest Route, Shortest Route

### **Changing map display**

Street Map Scale, City Map Scale, Region Map Scale, Driver's view, Map View, Arrow View, Guide View, Zoom IN, Zoom Out, Overlay POI, Cancel Overlay POI

## ■ Available voice commands related to audio

### **Common to each source**

Equalizer Up, Equalizer Down, CD, Radio, Multi CD, DVD, XM Radio, Digital Audio Broadcasting, Source by NAVI, DVD Changer, Monitor DVD, TV Tuner, Video IN, Auxiliary, Source On, Source Off, Display NAVIGATION, Display AV, Back, Repeat

### **For TUNER source**

Preset 1-6, Seek Up, Seek Down, [registered name], Next Page, Previous Page

### **For CD source**

Track 1-20, Repeat Play, Random Play, Next Page, Previous Page

### **For Multi-CD (MCD) source**

Track 1-20, Random Play, Disc 1-12, ITS Play, Next Disc, Previous Disc, Next Page, Previous Page

### **For DAB source**

Band Change, Preset 1-6

### **For TV source**

Band Change, Preset 1-12, Seek Up, Seek Down, [registered name], Next Page, Previous Page

### **For DVD (M-DVD) source**

Random Play, Disc 1-6, ITS Play, Next Disc, Previous Disc, Next Page, Previous Page

### **For XM source**

Band Change, Preset 1-6

### **For NAVI source**

Track 1-20, Repeat Play, Random Play, Next Page, Previous Page

↻ Some commands may be cancelled according to the condition of audio unit being combined.

## ■ If you are not used to voice operation

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 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

## ***When all the voice commands cannot be shown in one screen***

To scroll through the rest of the menu, simply use the Scale Control. You can also display it by saying “Next Page”.

To continue to use voice operation, 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 94.

## ***To cancel voice operation***

You can cancel voice operation features at any time by pressing the NAVI button or pressing the TALK button downwards on the Remote Control. 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. After the message is played, a Beep tone indicates that it is now your turn to speak, and the mark showing that you can speak is displayed.

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 option you want to select.

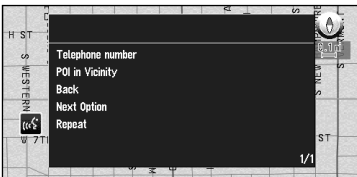
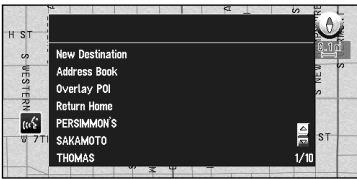
### 1 Press the TALK button.

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 canceled 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”.
- ☞ If you want to return to the previous screen, say “Back”.

### 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”.

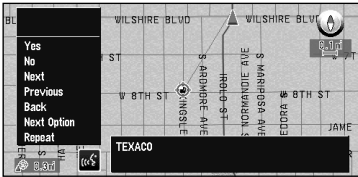
You say the contents you want to operate. Here, selection method of your destination is specified. When you want to search the gas station nearest to the current location, say “POI in vicinity”. When you speak the command, the Navigation System displays the command it recognized and the system voice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

**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 (or way point), the route calculation starts.

- If you want to see maps with other options, at Step 5 say “Next”.
- If you say “No”, the message “You can return to previous mode by pressing the (Back) button” appears. If you perform other operations instead of pressing the Back button, voice operation is canceled, and the map screen appears.

## Tips for Voice Operation

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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.

- ☞ If your Pioneer Head Unit has a Mute lead (Head Unit with a yellow/black lead), the sound volume of the Head Unit is automatically reduced during voice operation (see “Voice Recognition Mute” on page 93).
- ☞ Some Pioneer Head Unit models have a Mute control function. For further details, see the manual for that model.

### **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 Control, 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.



## Positioning Technology

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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 68,900,000 feet (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?**

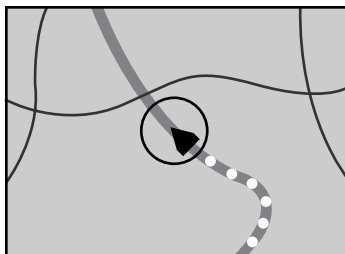
For maximum accuracy, your Navigation System continually compares GPS data with your estimated position as calculated from the data of 3D Hybrid Sensor. However, if only the data from the 3D Hybrid Sensor is available for a long period, positioning errors are gradually compounded until the estimated 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.

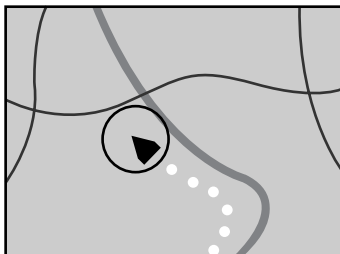
- If you use chains on your wheels for winter driving, or if you put on the spare wheel, the errors may appear to suddenly increase because of the increased wheel diameter. To prevent the contamination of previously acquired learning data, learning automatically stops when such errors suddenly appear.
- 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 86 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

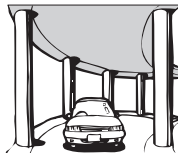
Positioning errors are kept to a minimum by combining GPS, Dead Reckoning, and map matching. However, in some situations, these functions may not work properly, and the error may become bigger.

### ■ 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 miles (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 parking lot.



# Troubleshooting

If you have problems operating your Navigation System, refer to this section. The most common problems are listed below, along with likely causes and solutions. While this list is not comprehensive, it should answer your most common problems. If a solution to your problem cannot be found here, contact your dealer or the nearest 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 163).
- (5) Setting of Installation direction lever is wrong.
- (6) Main unit is installed with extreme angle exceeding the limitation of the installation angle.
- (7) Indication of the position of your car is misaligned after a U-turn or reversing.

### **Solutions:**

- (1) Check the GPS signal reception using "GPS Status" (see "Checking positioning information by satellite" on page 85) 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 Installation 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.)
- (7) Check whether or not the reverse gear signal input lead (purple) is connected properly. (The Navigation System works properly without the lead connected, but positioning accuracy will be adversely affected.)

## ***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 92) 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 92) 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 92) and make sure “Nighttime Map” is selected.
- (2) Check the 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 92) 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 93) and/or turn up the volume on the display.

***The Remote Control fails to work.***

**Possible causes:**

- (1) The batteries are low.
- (2) The batteries have been inserted incorrectly.
- (3) The Remote Control is pointing at the floor or a seat.
- (4) The signal receptor on the display is exposed to direct sunlight.
- (5) The Mode switch (or the dipswitch) of the Remote Control 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 Control has a clear line of sight to the display unit.
- (4) Move the Remote Control closer to the receiver on the display unit.
- (5) Set the Mode switch (or the dipswitch) of the Remote Control correctly (see the manual for each product).

***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 93) 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 (in case of AVIC-9DVD, AVIC-90DVD)**

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) "This is not the appropriate disc. Please insert the appropriate disc."***

#### **When:**

- (1) If you try to use a disc which is incompatible with this system (including the old version map disc).
- (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) Please set a normal disc.

### ***(3) "Irregular speed pulse signal is detected. Please turn off the system and check the connections. 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 cord is not connected.

#### **What to do:**

To operate with 3D hybrid mode, connect the speed signal input (pink lead wire) of the power cord 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 163).

### ***(5) "Vibration is detected. Please turn 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 turn off the system and check the installation. After you have checked, please re-boot the system and 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) "Your route could not be found."**

**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) "Your journey cannot 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) "Memory Full."**

**When:**

If there are already 300 items when you attempt to register an item in the Address Book.

**What to do:**

Delete 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 failed. Returning to PC card menu."***

**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 that cannot be pronounced was entered (during password registration).

**What to do:**

Enter a word that can be pronounced.

***(16) "An error has occurred. Please note the following error code and switch 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) "DVD 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.

***(18) "Only sound is available while driving..."***

**When:**

Trying to view pictures from TV-tuner, DVD-video or other sources while driving.

**What to do:**

Pull over and come safely to a halt, put the parking brake on, and then try again.

## 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.
- 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.)
- During voice guidance, turns and junctions from freeway are announced. However, if you pass junctions, turns, and other guide points in rapid succession, some may not be announced.
- It is possible that guidance may direct you off a freeway and then back on again.
- 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, toll roads, 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.
- The number of roundabout exits displayed on the screen may differ from the actual number of 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

## ■ **Route highlighting**

- Once set, the route is highlighted in bright green on the map.
- The route may not be highlighted as far as the checkered flag showing your destination, depending on the place set as your destination.

## ■ **Intersection enlargement**

- When “Close-up of Intersection” is on, the map scale increases to show more detail as you approach an intersection.
- 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 125 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 92).



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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.

## DVD Operation Reference Table

The operation of a Pioneer DVD player varies slightly according to the model. To operate with the Remote Control CD-R11, see the following table.

Group 1: SDV-P7, AVX-P7300DVD, DVH-P7000

Group 2: XDV-P9, XDV-P90

Group 3: DVH-P5000MP

### ■ For CD playback



<b>Playback :</b>	Automatic
<b>Fast Forward :</b>	Push the Control Stick to the right and hold
<b>Fast Reverse :</b>	Push the Control Stick to the left and hold
<b>Skipping to the next track :</b>	Push the NEXT/PREV control upward
<b>Returning to the previous track :</b>	Push the NEXT/PREV control downward
<b>Repeat play, Random play or Scanning on or off :</b>	<ol style="list-style-type: none"><li>1. Move the Joystick to the right and left to select the required function</li><li>2. Move the Joystick up or down for on/off</li></ol>
<b>On/off of Pausing :</b>	Push the Control Stick upward (pushing it upward again turns it off)
<b>Folder Select (for WMA/MP3):</b>	<ol style="list-style-type: none"><li>1. Move the Joystick to the left or right for selecting a "Folder".</li><li>2. Move the Joystick up or down for selecting the previous or the next folder.</li></ol>
<b>ITS Function :</b>	Group 1, Group 3: Not available Group 2: Available (For details, see each Owner's manual)

### ■ For DVD playback

<b>Reversing frame by frame :</b>	Push the ◀◀ (CANCEL ROUTE) button. Group 1: Not available Group 2: Available (For details, see each Owner's manual) Group 3: Available (Press the ▶▶ or ◀◀ buttons during reversing frame-by-frame to adjust the playback speed to one of four levels.)
<b>DVD POWER on/off:</b>	Group 1, 2: Available Group 3: Not available

\* The operation of DVD players other than those above is almost the same.

# 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.

## **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 Control; 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 Control**

The remote control unit for the system.

## **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 traveled.

**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

If there are too many characters used for an item, it may not be displayed on a single screen. If this is the case, the string will be followed by “...” indicating that it continues.

### Main menu



New Destination  
Address Book  
Return Home (P.47, 71)  
Go to (P.47, 71)  
Settings  
Information

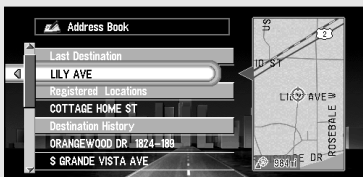


### New Destination menu



Address Search (P.48)  
POI Search (P.51)  
Vicinity Search (P.52)  
Phone Number Search (P.53)  
Freeway Search (P.54)  
Map Search (P.42)

### Address Book menu



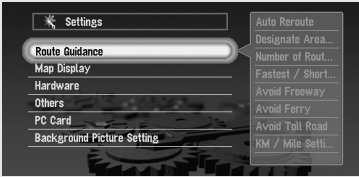
Last Destination (P.65)  
Registered Location (P.65)  
Destination History (P.65)

### Address Book operation menu

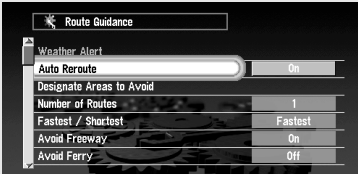


Edit Information (P.67)  
Registration (P.65)  
Delete This Item (P.69)  
Delete All Destinations (P.69)  
Delete All Address Book Entries (P.69)  
View Map (P.70)

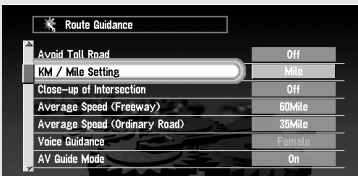
## Settings menu



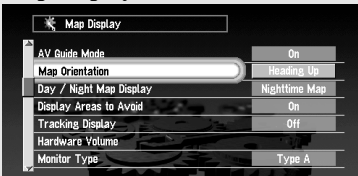
### Route Guidance menu (1)



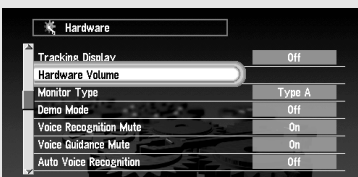
### Route Guidance menu (2)



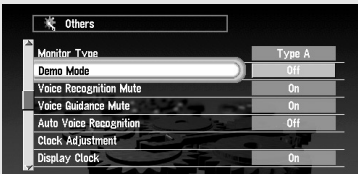
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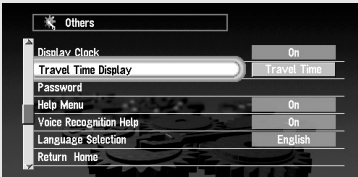
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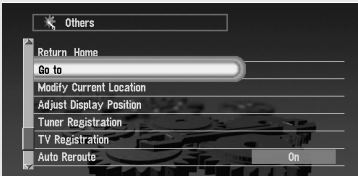
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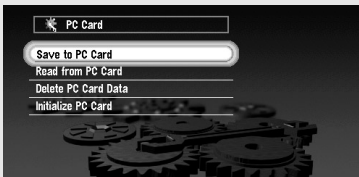
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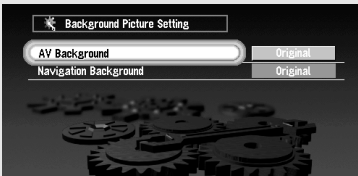
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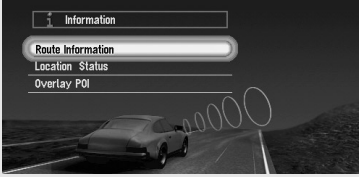
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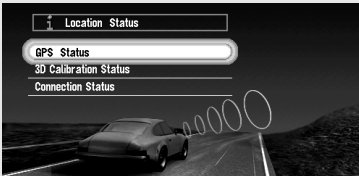
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**MEMO**

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.**



*Register your product at*

  
**<http://www.pioneerelectronics.com>**

*See "Product registration" page*

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