MAN-CNDV-50MTP-EN.book Page 1 Friday, April 29, 2005 10:33 AM

Pioneer sound.vision.soul

Operation Manual

ENGLISH

DVD Map

•

CNDV-50MT

Don't forget to register your product on www.pioneer.co.uk (or www.pioneer-eur.com)

This operation manual can be used with the following models: AVIC-800DVD, AVIC-8DVDII, AVIC-8DVD AVIC-900DVD, AVIC-9DVDII, AVIC-9DVD

READ ME FIRST! To Users Updating the Application Program

You need an AV Head Unit or Display with touch panel capability to use this software.

Make sure to use a display suitable for this system.

Please read the cautions on the next page before using the CNDV-50MT disc as there is a possible risk that the stored user-registered data may lost upon completion of the update. Please be aware that the manufacturer cannot take any responsibility for lost data in the event the data is lost.

Upgrading to a newer version \rightarrow Page 59

MAN-CNDV-50MTP-EN.book Page 2 Friday, April 29, 2005 10:33 AM

Cautions on Updating the Application Program of the Navigation System:

- Stop the vehicle in a safe location. While the program update is in progress, ensure that the power supply of the Navigation System is not turned off.
- When the update procedure is complete, the Navigation System will be restarted. After the system has started up again, make sure not to turn off the power supply for the Navigation System until the map of your surroundings appears.
- During the update process, there is the possible risk of the "Address Book" (*) data and the "Destination History" data being lost. It is highly recommended to use a PC Card (PCMCIA TYPE II <5 V>) to back up Address Book data. (Since the "Destination History" cannot be stored on a PC Card directly, to keep the "Destination History" data, first store it in the Address Book, then onto the PC Card.)
 - * "Address Book" data includes "Return Home" and "Go to" contents.
- Any existing calculated routes will be cancelled.
- Personalised settings will return to their factory settings.

Application Program Update Procedure:

Refer to the update procedure in the "Installing the Program" section (P. 59) of this manual.

The screen shown in the example may differ from the actual screen. The actual screen may be changed without notice for performance and function improvements. MAN-CNDV-50MTP-EN.book Page 1 Friday, April 29, 2005 10:33 AM

Introduction

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MAN-CNDV-50MTP-EN.book Page 2 Friday, April 29, 2005 10:33 AM

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2

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MAN-CNDV-50MTP-EN.book Page 4 Friday, April 29, 2005 10:33 AM

Table of Contents

Introduction

Licence Agreement 1 PIONEER CNDV-50MT 1 Terms and conditions in relation to the Tele Atlas navigation data 3 Table of Contents 4 Important Safety Information 6 Notes Before Using the System and Additional Safety Information 7 Available models 7 In case of trouble 7 Precaution 7 About the AV Head Unit or Display to be Connected 7 Features (Characteristics of this software) 8 Manual Overview 9 To users updating the application program 9 How to use this manual 9 Terminology 10

Chapter 1 Basic Operation

Flow from Startup to Termination 11 Basic Navigation 12 Buttons you can use 15 How to Use Menu Screens 15 Main menu 15 Shortcut menu 16 How to Use the Map 17 Switching the current position screen display mode 17 How to view the map of the current location 18 Changing the scale of the map 19 Moving the map to the location you want to see 20

Chapter 2

Setting a Route to Your Destination

Finding Your Destination by Selecting the Type of Facility **23** Searching for Points of Interest (POI) **23**

Finding a POI in your surroundings **24** Searching the facilities around the scroll cursor **25**

- Setting an Entrance or Exit of a Motorway as Your Destination **25**
- Finding Your Destination by Specifying the Post Code **25**
- Route Calculation to Your Home Location or to Your Favourite Location **26**

Selecting Destination from the Destination History and Address Book 26 Modifying the Route Calculation Conditions 27 Items that users can change 27 Perform the route calculation of the several route options, and select one 28 Checking the Set Route 29 Checking the set route with the map 29 Checking the set route with text 29 Checking the set route from the Information menu 30 Recalculating the Route to Your Destination 30 Cancelling the Route Guidance 31 Adding Way Points to the Current Route 31 Adding a way point 31 Skipping a way point 32 Deleting a way point from the route 32 Displaying certain POI on the map 32 Using POI shortcuts 33

Chapter 3 Editing the Navigation Utilities

Editing Registered Locations 35 Registering your home and your favourite location 35 Registering a previous location in the Address Book 36 Editing a location's information 36 Deleting Address Book or Destination History Information 38 Changing the position of locations registered in the Address Book 38 Setting Areas to Avoid 39 Registering an Area to Avoid 39 Changing or deleting an Area to Avoid 39 Using Traffic Information 40 Viewing traffic information 40 Information on avoiding traffic jam on route ahead 41 When checking traffic jam information manually 41 Selecting traffic information to display 42 Selecting the radio station 42 Using a PC Card 43 Initialising a PC card 43 Storing the data of registered locations in the PC card 44 Loading registered locations data from a PC card 44 Deleting PC card data 44 Recording the Driving Information 45 Changing Background Picture 46 Checking the Navigation Status 47 Checking sensor learning status and driving status 47

MAN-CNDV-50MTP-EN.book Page 5 Friday, April 29, 2005 10:33 AM

Checking the connections of leads and installation positions **48**

Chapter 4 Customising Your Navigation

System

Modifying the Default Settings **49** Items Users can Change **49**

Chapter 5 Operating Your Navigation System with Voice

Basics of Voice Operation 53 To Ensure Safe Driving 53 Flow of voice operation 53 Voice Commands 54 Common commands 54 Commands for display change 54 Available voice commands related to navigation 54 Available voice commands related to audio 55 An Example of Voice Operation 55 Tips for Voice Operation 57 Route Setting Information Route search specifications Auto Reroute Route highlighting Roads not Used in Calculations Non routable roads (pink colour road) Intersection enlargement Tracking **75** About traffic information About the Data for the Map Database Copyright Glossary **76** Display Information Main menu Shortcut menu

Appendix

Installing the Program 59 Combining and Using Pioneer AV Equipment 60 To Ensure Safe Driving 60 About AV Head Units/Displays to be connected 61 Characteristics of the Navigation System when combined with Pioneer AV Head Unit or AV System Display 62 Touch Panel Operation when using NAVI source 62 Cautions when connecting a Rear Display to the Front Display 63 Positioning Technology 63 Positioning by GPS 63 Positioning by dead reckoning **63** How do GPS and dead reckoning work together? 64 Handling Large Errors 64 When the positioning by GPS is impossible 64 Vehicles that Cannot Obtain Speed Pulse Data 65 Conditions Likely to Cause Noticeable Positioning Errors 65 About the Data being Deleted 67 Troubleshooting 68 Problems in the navigation screen 68 Messages and how to react to them 70



MAN-CNDV-50MTP-EN.book Page 6 Friday, April 29, 2005 10:33 AM

Important Safety Information

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

- Read the entire manual before operating this Navigation System.
- The navigation features are intended solely as an aid to you in the operation of your vehicle. It is not a substitute for your attentiveness, judgement, 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 vehicle.
 Always observe safe driving rules and follow all existing traffic regulations. If you experience difficulty in operating the system of reading the display, park your vehicle in a safe location and apply the handbrake before making the necessary adjustments.
- 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. Please call the appropriate emergency number.
- Route and guidance information displayed by this equipment is for reference purposes only. It may not accurately reflect the latest permissible routes, road conditions, one way streets, road closures, or traffic restrictions.
- Traffic restrictions and advisories currently in force should always take precedence over guidance given by the navigation system. Always obey current traffic restrictions, even if the navigation system provides contrary advice.
- Failure to input correct information about the local time may result in the navigation system providing improper routing and guidance instructions.
- Never set the volume of your Navigation
 System so high that you cannot hear outside traffic and emergency vehicles.
- To promote safety, certain functions are disabled unless the handbrake is applied.

6

- The data encoded in the disc is the intellectual property of the provider, and the provider is responsible for such content.
- Keep this manual handy as a reference for operating procedures and safety information.
- Pay close attention to all warnings in this manual and follow the instructions carefully.
- Do not install the display where it may (i) obstruct the driver's vision, (ii) impair the performance of any of the vehicle's operating systems or safety features, including air bags, hazard lamp buttons or (iii) impair the driver's ability to safely operate the vehicle.
- Please remember to wear your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled.
- Using the most current map DVDs will allow for most accurate destination mapping.
 Upgrade DVDs are available for purchase through your local Pioneer dealer.
- Never use headphones while driving.

A WARNING

Do not attempt to install or service your display by yourself. Installation or servicing of the display by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards. MAN-CNDV-50MTP-EN.book Page 7 Friday, April 29, 2005 10:33 AM

Notes Before Using the System and Additional Safety Information

Available models

This software can be used with the following models:

AVIC-900DVD, AVIC-9DVDII, AVIC-9DVD, AVIC-800DVD, AVIC-8DVDII, AVIC-8DVD

 \supset If the program has not been updated \rightarrow "Installing the Program" on page 59

In case of trouble

Should this product fail to operate properly, contact your dealer or nearest authorised Pioneer Service Station.

Precaution

Handbrake 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 vehicle's handbrake. If you attempt to use these functions during driving, their onscreen touch keys may be indicated in grey and inoperable. If so, stop in a safe place, apply the handbrake, then operate.

Update DVD

Updated Navigation DVDs are available for purchase from your local Pioneer dealer that includes the most current map and point of interest information. Contact your local Pioneer dealer for details.

To ensure safe driving

· To avoid the risk of accident and the potential violation of applicable laws, the navigation system is not for use with a video screen (DVD-Video, TV, etc.) that is visible to the driver.

· In some countries or states the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed.

Before viewing the DVD video using the navigation unit's built-in DVD player, first stop the vehicle in a safe place and apply the handbrake. The display is controlled in combination with the brake to prevent the display of the video unless the handbrake is applied.

To watch a DVD, park your vehicle in a safe place and apply the handbrake.

Colour difference of the map display between day and night



Night display

The examples in this manual are illustrated using the daytime display. When driving at night, the colours you see may differ from those shown. To use this function, the Orange/white lead of the navigation unit must be connected correctly.

⊃ "Day/Night Display" → Page 50

About playing the DVD-Video

DVD-Videos and CDs can be played on AVIC-9DVD, AVIC-9DVDII, and AVIC-900DVD. When using AVIC-9DVD, refer to the DVD section in the "Operation Manual" provided with AVIC-9DVD. When using AVIC-9DVDII or AVIC-900DVD, refer to the DVD section in their respective "Hardware Manual".

About the AV Head Unit or **Display to be Connected**

You need an AV head Unit or Display with a touch panel capability to use this software. If any display without a touch panel feature is connected, the software will not work properly. Make sure to use a display suitable for the system.

MAN-CNDV-50MTP-EN.book Page 8 Friday, April 29, 2005 10:33 AM

Connected" → Page 61

8

Features (Characteristics of this software)

Touch panel key operation

It is possible to operate the navigation function and the Audio function by using touch panel key.

Compatible with the Voice Recognition System

Using the microphone will enable voice operation for both the navigation and AV functions*. *: You need a display with AV function.

Variety of View Modes

Various types of screen display can be selected for navigation guidance. – Map mode, Driver's view, Street List mode, Mixed mode

Wide Variety of POI Information

Approximately 1.6 million POIs are included in this database as of April 2004. Some POI information may not be accurate or may become inaccurate through the passage of time. Please directly contact the POI to verify the accuracy of the information about the POI which appears in this database. POI information is subject to change without notice.

Auto Reroute Function

If you deviate from the set route, the system will re-calculate the route from that point so that you remain on track to the destination.

This function may not work for certain areas.

Assign an Original Image as a Background Image

You can store your own pictures on a PC card in JPEG format and import original images in this format. These imported images can be set as a background image.

Imported original images will be stored in the memory, but saving cannot be guaranteed completely. If original image data is deleted, set the PC card again and re-import the original image. MAN-CNDV-50MTP-EN.book Page 9 Friday, April 29, 2005 10:33 AM

Manual Overview

This manual provides the important information you need to make full use of your new Navigation System. The beginning sections outline the Navigation System and describe its basic operation. The later sections describe the details of the navigation functions.

Please note that when you have decided what you want to do, you can find the page you need from the "Table of Contents".

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

To users updating the application program

Before using this system, check that the program has been updated. If not, upgrade it by referring to "Installing the Program" on page 59.

How to use this manual

For reasons of safety, it is particularly important that you fully understand your Navigation System before using it. Be sure to read Introduction and Chapter 1 in particular.

Basic Operation

If you want to use the Navigation System immediately, please read this section. It will explain the basics of operating this system, including items appearing on the display and how to use the different menus.

2

Setting a Route to Your Destination

This section describes various ways of searching the destination, changing the route search conditions, and the route operation during route guidance.



Editing the Navigation Utilities

Describes convenient functions for navigation, including how to organise information on places you have visited and how to store data on the PC card.



Customising 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.



Operating Your Navigation System with Voice

Describes navigation operations such as searching the destination and performing audio operations by voice.

Appendix

Read the appendix to learn more about your Navigation System and such information as the availability of after-care. Please see "**Display Information**" at the end of this manual for checking the details of each item on the menu.

MAN-CNDV-50MTP-EN.book Page 10 Friday, April 29, 2005 10:33 AM

Terminology

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

• Buttons on your Navigation Unit are described in **ALL CAPITAL**, **BOLD** lettering: e.g.)

NAVI (or POS) button, NAVI MENU button.

- Items in the different menus or touch keys available on the screen are described in quotations ("") and bold:
 - e.g.)

"Destination", "Settings".

• Extra information, alternative use and other notes are presented like this: e.g.)

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

• The references are indicated like this:

e.g.)

10

⊃ Setting the Route Options → Page 27

MAN-CNDV-50MTP-EN.book Page 11 Friday, April 29, 2005 10:33 AM



Chapter 1

Basic Operation

11

Basic Operation

Flow from Startup to Termination

• If the program is not installed, see page 59 and install the program.

At first, please confirm the positions of the following features using the navigation's "Hardware Manual", "Operation Manual" and display's "Operation Manual".

- Disc loading slot
- NAVI/AV button
- NAVI MENU button

1 Start the engine.

After a little time, the navigation opening screen comes on for a few seconds. Then, a message screen is displayed.

- 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.
- 2 Insert the Pioneer DVD map disc to the disc loading slot.
- **3** Press the NAVI/AV button to switch the Navigation map screen.

Pressing the **NAVI/AV** button switches between the navigation map screen and the audio screen.

4 Check the details of the cautionary message and touch "OK".

You can operate the Navigation System by touching keys displayed on the screen. If the route is already set, it changes to route guidance mode. The map of your surroundings is displayed.

- D How to read the current position screen → Page 18
- ⊃ Setting the time → Page 60
- Starting the operation with voice commands only → Page 51

You can press the TALK (or VOICE) button of the steering remote control to proceed instead of touching "OK".

Chapter 1

- Touch keys which are not available at this time are greyed out.
- Be sure to touch the touch keys with a finger. Touch keys cannot be operated by a pen or similar object.

5 If you want to record driving information, touch "Business" or "Private". If you don't want to record, touch "Off".



The map of your surroundings is displayed. $\ensuremath{\mathfrak{I}}$ "Recording the Driving Information" $\ensuremath{\rightarrow}$

Page 45

6 Press the NAVI MENU button. Displays the main menu.

Displays the main menu.

7 Searches the destination and gives route guidance.

Destination	Informati <u>Î</u>	on Route	Options	Settings
Address Search	Return Home	Go to	POI Search	Vicinity Search
Address Book &	Destination History İİ	Motorway Search	Postal Code Search	Cancel Route

- ⊃ Specifying the address and searching the destination → Page 12
- Searching the destination by map → Page 21
- ⊃ Other search methods → Page 23 to 26

8 Turn off the vehicle engine.

This Navigation System is also turned off.

 Until the vicinity of the destination is reached, the set route will not be deleted automatically even if the power is turned off. MAN-CNDV-50MTP-EN.book Page 12 Friday, April 29, 2005 10:33 AM

Basic Navigation

The most frequently used function is the Address Search, in which the address is specified and the destination searched. This section describes how to use the **Address Search** and the basics of using the Navigation System.

A CAUTION

• For safety reasons, you cannot use these basic navigation functions while your vehicle is in motion. To enable these functions, you must stop in a safe place and apply the handbrake.

Basic flow of operation

- 1 Park your vehicle in a safe place, and apply the handbrake.
- 2 Insert the Pioneer DVD map disc to the disc loading slot.
- **3** Press the NAVI MENU button to display the Main menu.
- 4 Select "Destination" from the Main menu.
- 5 Select the method of searching for your destination.
- 6 Enter the information about your destination.
- 7 Your Navigation System sets the route to your destination, and the map of your surroundings appears.
- 8 After releasing the handbrake, drive in accordance with the navigation information, subject of course to the important safety instructions noted on page 6 to 7.



MAN-CNDV-50MTP-EN.book Page 13 Friday, April 29, 2005 10:33 AM

1 Press the NAVI MENU button to display the main menu.

2 Touch "Address Search".

Selects the method for searching the destination.

Destination	Informat <u>Å</u>	ion Route	Options S	Settings
Address	Return	Go to	POI	Vicinity
Search	Home		Search	Search
Address	Destination	Motorway	Postal Code	Cancel
Book	History	Search	Search	Route

- ⊃ Return Home → Page 26
- ⊃ Go to → Page 26
- ⊃ POI Search → Page 23
- ⊃ Vicinity Search → Page 24
- ⊃ Address Book → Page 26
- ⊃ Destination History → Page 26
- ⊃ Motorway Search → Page 25
- ⊃ Postal Code Search → Page 25
- Cancel Route → Page 31

There are two methods of address search: one involves first specifying the street name and the other specifying the name of the city or area first. This description uses the method of specifying the street name first as an example.

3 Touch "Country key".

If the destination is in another country, this changes the country setting.

Once the country has been selected, you only have to change country when your destination is outside of the country you have selected.

[Street		-				- Titte
[City		1	1			61746
	A	B	C	D	E	FG	
		К		M	N	0 P	
	S	T	U	V	W	XY] <u>z</u>
	0	1	2	3	4	Sym.	A OK
	5	6	7	8	9	Others	Back

Country key

4 Touch the country codes of the destination country and touch "OK".

Modifies the country setting and returns you to the previous display.

5 Input the street name.

Touch the letter you wish to input. If the next screen is not automatically displayed even though the street name is entered, try touching "OK".

Stre	et [MA_						NAFT.
City	/	N	11 2	1	an she		44	8676
A	B] [] c] 🗖	E	F	G	Н	
	K][) <u>M</u>	N		P	Q	R
S	T][]] 🔽	W	X	Y	Z	
0	1	2	3	4	\$yr	n.	UK	OK
Ð	6	7	8	9	Othe	rs]	**	Back
					· · · ·		No.	

The input text.

The number of applicable candidates.

"City":

Touch if you wish to first specify the destination city or area.

×:

The input text is deleted letter by letter from the end of the text. Continuing to press deletes all of the text.

"Others":

You can input text with accents and umlauts. "Sym.":

You can input text with marks such as "&" and

"+". "0-9":

You can input text with numbers. "Back":

Returns you to previous screen.

- □ For example, for "West Higgins Road", you can just enter part of the name, such as "Higgins".
- □ While entering characters, if there is only one candidate following the next, that is automatically entered.
- □ When touching "Back" on the text input screen to return to the previous screen, you may not be able to input text. In such a case, delete the letters entered in the text box.
- □ The characters contained in "Others" are treated in the same way as other alphabets are, upon searching. For example, when you use any of "**A**", "**Ä**", "**Å**", "**Æ**", the result to come out is the same.





MAN-CNDV-50MTP-EN.book Page 14 Friday, April 29, 2005 10:33 AM

Searching your destination after specifying the name of city or area

You can narrow down the searching candidates by initially specifying the name of city or area where your destination is located. Inputting the name of the city or area then selecting the destination city or area from the list returns you to the Street Name input screen. Now input the street name, select the street from the list, and proceed to Step 9.



Chapter

Basic Operation

In the selected country, if you touch "**City**" without entering the name of city or area, you can check the list of the cities or areas, which you have searched in the past. (This item cannot be selected when searching by the name of city or area for the first time with this system or when you have selected a country that you have never searched before.)

(ÚK)

6 Touch the street from the list.

	UK	United Kingdom			11
Â	MANCHESTER ROAD) #=		
	BACK MANCHESTER	ROAD	#	14	
E I	NEW MANCHESTER	ROAD	#	1	
	OLD MANCHESTER	ROAD	#	1	
	MANCHESTER ROAD	EAST	#		
Ľ	BACK MANCHESTER	ROAD EAST			Back

Scroll bar

14

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

⊃ Searching the destination by map \rightarrow Page 21

In the case of an item that cannot be displayed in a single line, touching the \triangleright to the right of the item allows you to see the whole line.

If only one location is found from the list, route calculation starts after pressing the item.

- Touching the specifies the selected street and streets intersecting it, allowing you to set an intersection as your destination. This is useful when you don't know the house number of your destination or cannot input the house number of the specified street.
- Touching the displays a map of the place you have selected. (Candidate place names may appear in the list screen.)

7 Input the destination city or area.

If the list screen is displayed, proceed to Step 8.

8 Touch the city or area where your destination is located.



If the area has no house number, a route calculation starts. Proceed to Step 10.

If the selected street is very long and passes through several cities or areas, the screen for entering the name of city or area appears.

9 Input the house number and touch "OK".

Street	NEW MANCHESTER ROAD		
City	WARRINGTON, CHESHIRE		
House #		6-594	
	1 2 3		
	4 5 6	Map	
	7 8 9		

House number range

On this display, you can select the following item:

Map:

A map for the input house number is displayed. When the destination is searched without house number information, the map of the representative point in a house number range is displayed.

MAN-CNDV-50MTP-EN.book Page 15 Friday, April 29, 2005 10:33 AM

- ☐ If there are 0 or more than one locations corresponding to the entered house number, a list of house number ranges appears. To start the route calculation, touch the range within the list you wish to specify as the destination. You can also see the destination on the map by touching the to the right of the list.
- Searching the destination by map → Page 21

10Route calculation starts automatically.

Route calculation starts. When the route calculation is completed, the map of your surroundings appears. (The route is displayed in highlighted colour.)

- If you press the NAVI (or POS) button during route calculation, the calculation is cancelled and the map display appears.
- When performing a destination search with the route already set, select whether to regard the specified area as your destination and search for a new route, or search for a route via that area.
- ⊃ Adding way points to the route → Page 31
- ⊃ Once searched for, a location is automatically stored in the "Destination History" → Page 36

11Drive in accordance with the screen and voice information.

Your Navigation System gives you the following information with the timing adjusted to the speed of your vehicle:

- Distance to the next turning point
- · Direction of travel
- Road number of the motorway
- Way point (If this is set)
- Your destination
- ⊃ How to view the screen \rightarrow Page 18
- ⊃ Searching for another route → Page 30
- Cancelling route guidance → Page 31
- Touching the **Diskin** or pressing the remote control's **GUIDE** button allows you to hear the information again.

- If you deviate from the route with the Guidance set to St.List Mode or Mixed Mode and enter a street not recorded on the disc, the screen changes to Map Mode. When you return to the route, the screen returns to the original mode and resumes route guidance.
- If you stop at a petrol station or a restaurant during the route guidance, your Navigation System remembers your destination and route Information. When you start the engine and get back on the road, the route guidance resumes.
- If a traffic jam or closure occurs on the set route ahead, traffic information will appear on the screen and voice information will be provided. At that time, select whether to recalculate for a new route.

Chapter 1

Basic Operation

15

⊃ Traffic jam information → Page 41

Buttons you can use

The status of the buttons appearing on the screen is indicated by their colour. Depending on the function the navigation is performing, you can touch some buttons, while other buttons are not available.

Blue touch key: The button is operable.

Dark grey touch key:

The function is not available (e.g., operation is prohibited while driving).

How to Use Menu Screens

The basic operation of the navigation is performed by using menus. There are two types of menu: the "Main menu" and the "Shortcut menu".

Main menu

You use this menu for basic operation of your Navigation System.

MAN-CNDV-50MTP-EN.book Page 16 Friday, April 29, 2005 10:33 AM

- 1 With the map displayed, press the NAVI MENU button.
- 2 To change to the menu you want to use, touch the name of the menu displayed at the top of the screen.

The main menu is divided into four: "Destination", "Information", "Route Options", and "Settings".

3 If you want to return to the map, press the NAVI (or POS) (or NAVI MENU) button.

Destination menu



Basic Operation

Destination	information in the second seco	tion Route	Options S	Settings **
Address	Return	Go to	POI	Vicinity
Search	Home		Search	Search
Address	Destination	Motorway	Postal Code	Cancel
Book	History	Search	Search	Route

Select the destination search method. Also the set route can be cancelled from this menu.

- Specifying the address and searching the destination → Page 12
- ⊃ Searching the destination by map \rightarrow Page 21
- ⊃ Other search methods → Page 23 to 26

Information menu

Destination	Informa fl	tion Route	Options	Settings **
Route Profile	Overlay POI	Connection Status	RDS-TMC	Traffic Settings
Route Scroll	PC Card	3D Calibration Status	Manual Station Search	Traffic On Route

Used to check the route you set or check the navigation status. You can also check traffic information or select the RDS-TMC station.

- You can use "Route Profile" and "Route Scroll" only when a route has been entered.
- ⊃ Checking the set route → Page 29
- ⊃ Checking the navigation status → Page 47
- ⊃ Using a PC card → Page 43

Route Options menu



Used to specify the conditions for setting the route to the destination.

⊃ Setting the Route Options \rightarrow Page 27

Settings menu

Destination	Informat <u>1</u>	ion Route	: Options	Settings
Return Home	Go to	Average Speed	Modify Current Location	Hardware Volume
Demo Mode Off	Day/Night Display Illuminated	Map Display	Background Picture Setting	i Next

Set the navigation functions so they can be used easily.

- ⊃ Settings menu → Chapter 4
- □ If the contents of the menu are not fully displayed on the screen, touch "**Next**" to view the remaining contents.

Shortcut menu

Shortcuts allow you to perform various tasks, such as route calculation for the location indicated by the cross pointer, or registering a location in the **Address Book**, faster than using the Main menu.

1 When the map is displayed, briefly touch any part of the map.

If you continue to touch the map, it will start scrolling.

D Moving the map to view the part you want to see → Page 20





MAN-CNDV-50MTP-EN.book Page 17 Friday, April 29, 2005 10:33 AM

Ag: Destination

Displayed when the map is scrolled. Set the route to the place specified with the cross pointer.

⊃ Searching the destination by map → Page 21

☆: Chg.Route

Can be selected only during route guidance. You can add changes to the route in the route guidance.

- ⊃ Searching another route → Page 30
- ⊃ Detour for a specified distance → Page 30
- Checking the route → Page 29
- ⊃ Cancelling the route guidance → Page 31
- Skipping a way point → Page 32

: Registration

Registering the location indicated by the cross pointer to **Address Book**.

⊃ Registering a place → Page 36

🛷: Vicinity Search

You select a location with the cross pointer. Nearby POIs (Points Of Interest) will also be found.

Searching the facilities surrounding a certain place → Page 24

🟦 : Overlay POI

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

⊃ Viewing POI information → Page 20

🔄 : Note

You can check details of the item pointed by the scroll cursor.

⊃ Viewing the information of a specified location → Page 20

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.

Switching the current position screen display mode

This section describes how to display the current position screen and change the map display mode.

There are four types of map display.

- Map Mode
- Driver's View
- Mixed Mode (during route guidance only)
- St.List Mode (during route guidance only)
- 1 Press the NAVI (or POS) button to display a map of the area around your current position.
- 2 Press the NAVI (or POS) button again.
- **3** Touch the mode name or press the NAVI (or POS) button to select the mode you want to display.



If the mode is selected by pressing the NAVI (or POS) button, the screen automatically switches to the selected map display mode after 4 seconds.

Chapter 1 Basic Operation

MAN-CNDV-50MTP-EN.book Page 18 Friday, April 29, 2005 10:33 AM

How to view the map of the current location

A CAUTION

• In Driver's View, a small gauge with no scale is depicted, but is not intended to be used as a speedometer. Use the actual speedometer of your vehicle to confirm speed.

Map Mode







Driver's View

The map from the driver's viewpoint is shown.



Mixed Mode

18

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



St.List Mode

Displays the name of the street you will next travel along and an arrow indicating the direction of travel.

Normal condition







Enlarged map of the intersection

When "Close-up of Junction" in the Settings menu is "On", an enlarged map of the junction appears. If driving on motorway, the special guide illustration is displayed.





- ⊃ Changing the close-up of junction setting → Page 50
- When set to Driver's View, the system cannot be changed to an enlarged intersection map.

When the city map is displayed, you cannot switch to an enlarged map of the junction.

MAN-CNDV-50MTP-EN.book Page 19 Friday, April 29, 2005 10:33 AM

City Map

In certain metropolitan city areas, a more detailed "**City Map**" is available at the 50 m (0.05 mi) map scale or lower. (only those cities whose detailed city maps are registered in the map disc).



Display items

Guidance point*

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

Destination*

The chequered flag indicates your destination.

(1) Name of the next street to be used*

(2) Distance to the guidance point* Touch to access the next information.

(3) Current location

The current location of your vehicle. The tip of the triangular mark indicates your heading and the display moves automatically as you drive.

(4) Distance to the destination (or distance to the next way point)*

If way points are set, the display changes with each touch.

(5) Name of the street your vehicle is travelling along (or City Name, etc.)

(6) Compass

The red arrow shows North. Each touch changes the map's display direction. (North is UP or Heading Up.)

(7) Map scale

The scale of the map is indicated at distance. Touch to change the map's scale.

⊃ Changing the map's scale \rightarrow Page 19

(8) VOICE icon

Touch to change to voice recognition mode.

⊃ The voice operation of the navigation system → Chapter 5

(9) TMC icon

When a route has been calculated, touch to check whether there is any traffic jam or closure information on your route. When no route has been calculated, touch to display the traffic list.

⊃ Using traffic information → Page 40

(10) Current time

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

The display changes with each touch. The estimated time of arrival is automatically

calculated from the **Average Speed** set and the actual average speed.

⊃ How to set average speed → Page 49

(12) Tracking mark

The tracking mark shows the route your vehicle has travelled.

\supset Select the tracking setting \rightarrow Page 50

(13) Map of your surroundings (Side map)

(14) Distance to an intersection*

Displayed on the enlarged intersection map. The green bar gets shorter as your vehicle approaches an intersection.

(15) Next direction of travel*

When you approach an intersection, it appears green.

(16) Area to Avoid*

⊃ About detour area → Page 39

(17) Direction line

The direction towards the location set in (4) is indicated with a straight line.

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

Changing the scale of the map

Touching the "Map scale" key displayed on the upper right of the screen displays the scale gauge and Direct scale key. Directly touching the Direct scale key changes the map to the selected scale. Touching Δ or ∇ on the scale gauge allows you to specify the scale in greater detail





MAN-CNDV-50MTP-EN.book Page 20 Friday, April 29, 2005 10:33 AM

within a range of 25 metres - 500 kilometres (25 yards - 250 miles).



Direct scale key

- The icon of a registered location and traffic information icon are indicated when the map scale is 20 km (10 miles) or lower.
- POI icon and the traffic jam line are indicated when the map scale is 1 km (0.75 miles) or lower.
- □ The Direct scale key may not appear depending on the map display mode.

Moving the map to the location you want to see

If you touch the map of your surroundings (Side map) briefly, the shortcut menu appears. Touching anywhere on the map for at least 2 seconds changes the map to Scroll mode and the map begins scrolling in the direction you touched. The scrolling stops when you release your finger from the screen. At this time, the scroll cursor appears at the centre of the screen. Also a line connecting between the current location and scroll cursor appears. Pressing the **NAVI (or POS)** button returns you to the map of your surroundings.

Touch the area close to the centre of the screen to scroll slowly; touch near the sides of the screen to scroll through quickly.



(4)

(1) Scroll location

The position of scroll cursor shows the location selected on the current map.

□ In the vicinity of the scroll cursor the road appears light blue.(The case of a map scale of 200 m (0.25 mile) or lower.)

(2) Direction line

The direction towards the scroll cursor is indicated with a straight line.

(3) Distance from the current location

Shows the distance in a straight line between the location indicated by the scroll cursor and your current location.

(4) The street name, city name, area name and other information for this place.

Touching the \triangleright on the right displays hidden text.

- Displaying information on the specified location → Page 20
- According to the map scale, items displayed on the map may differ.

(5) Shortcut menu

⊃ How to view shortcut menu → Page 16

Viewing the information of a specified location

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

1 Scroll the map and move the cross pointer to the icon you want to view.

2 Touch 🔄



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

- ⊃ Registering places → Page 35
- Displaying facilities (POI) mark on the map
 → Page 32

Basic Operation

MAN-CNDV-50MTP-EN.book Page 21 Friday, April 29, 2005 10:33 AM

⊃ Using traffic information \rightarrow Page 40

3 Touch "Back".

You are returned to the previous display.

Finding a destination on the map

If you search the location you want to visit by scrolling the map, and touch A in the Shortcut menu, you can specify your destination on the map.

- 1 Press the NAVI (or POS) button to access the map screen.
- **2** Touch the map for at least 2 seconds. The map display changes to Scroll mode.
- **3** Scroll the map and move the scroll cursor to the place you want to make your destination.
 - D Moving the map to view the part you want to see → Page 20
- 4 Touch A.
- If you press the NAVI (or POS) button during route calculation, the calculation is cancelled and the map display appears.

When the 🕍 appears on the right of the list

You can also set a destination by touching the to the right of the list. Touch "**OK**" to confirm. The location pointed by the scroll cursor will be set as a destination.



Alternative option:

Scroll:

The map display changes to the map with the Shortcut menu.

If you touch anywhere on the map, the map display changes to Scroll mode.

Shortcut menu → Page 16















MAN-CNDV-50MTP-EN.book Page 23 Friday, April 29, 2005 10:33 AM

Chapter 2

atonory

Setting a Route to Your Destination

A CAUTION

- For safety reasons, these route-setting functions are not available while your vehicle is in motion. To enable these functions, you must stop in a safe place and put on the handbrake before setting your route.
- □ Some information on traffic regulations by days or time depends on the time when the route calculation is performed. Thus, the information may not correspond with a certain traffic regulation when your vehicle actually passes the location. Also, the information on the traffic regulations provided will be for a passenger vehicle, and not for a truck/lorry or other delivery vehicles. Always follow the actual traffic regulations while driving.
- □ If you press the **NAVI (or POS)** button during route calculation, the calculation is cancelled and the map display appears.

Finding Your Destination by Selecting the Type of Facility

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

You can also narrow down the search range by initially specifying the name of the city or area where your destination is located.

Searching for Points of Interest (POI)

- **1** Touch "Destination" in the Main menu, and then touch "POI Search".
- 2 Touch the country key of the destination country and touch "OK".
 - Selecting the country where you want to search → Page 13

3 Touch "Category".

		Guilegoly
Name		Category
City		54409
AB		
Г		
S T		XYZ
	2 3 4	Sym. UK OK
5 6	7 8 9	Others 🖘 Back
and the second s		

"Name":

Touch this item if you want to specify the POI Name at first. "City":

Touch this item if you want to specify the destination city or area at first.

4 Touch the desired category.

POI's are divided into several categories.

	UNITEd Kingdom	Dieke
Â	Restaurants	
	Petrol Station	
	✓ Hotel	
	+ Airport	Name
	Fi Shopping	City
Ľ	ТЯ АТМ	Back

If the category is not sub-divided into more detailed categories, the list will not be displayed. Proceed to Step 6.



23 _____

MAN-CNDV-50MTP-EN.book Page 24 Friday, April 29, 2005 10:33 AM

5 Touch the subcategory.

6 Input the name of the POI.

If the list does not automatically appear when the name of the POI has been entered, try touching "**OK**".

"City":

First, touch to specify the destination city or area.

7 Touch POI for your destination.

- Touching the displays a map of the surroundings of the selected POI.
- Searching the destination by map → Page 21
- If the selected POI is the name of a chain of outlets and consequently the same store name applies to different locations (the number of outlets appears next to the chain's name), touch the name of the POI to display a list of those POIs and touch the particular POI that is your destination.

Finding a POI in your surroundings

You can search for Points Of Interest in your surroundings on the map. Use it to find a POI to visit during a journey.

1 Touch "Destination" in the Main menu, and then touch "Vicinity Search". The list of Points Of Interest categories appears.

2 Touch the desired category.

The selected category will have a red tick mark.

Category

		J
Â	🗊 Restaurants 📃	
Ĥ	Petrol Station 📃	
	📌 Hotel 📃	
	🛨 Airport 📃	E Set
Ĺ	🛱 Shopping 📃	СК
		Back

OK:

Setting a Route to Your Destination

Starts searching Back:

Returns to the previous screen

Set:

Display the screen for creating POI shortcut.

- Create POI shortcut → Page 33
- If you touch one of the POI shortcuts (e.g.
), you can start searching POI directly by the selected categories on the POI shortcut.
- You can select the detail category for up to 100 items.

3 Touch POI.

Names of POIs and their distance from your current location appear. They are listed in nearest-to-furthest order. To the left of each item is an icon indicating the category.

	1-1-1	100
CAMBERWELL NEW R	0.3 km	
CLAPHAM ROAD 10	0.4 km 🔢	
MADDOCK WAY 1	0.5 km	
KENNINGTON PARK 410	0.7 km	
SOUTH LAMBETH ROA	1.1km	
CAMBERWELL GREEN	12km	Back

Distance to the facility

- □ When you touch 🔛, the POIs around the specified location are shown on a map.
- Searching the destination by map → Page 21
- Searching range is approximately 16 km (10 miles) square from the current location.



MAN-CNDV-50MTP-EN.book Page 25 Friday, April 29, 2005 10:33 AM

Searching the facilities around the scroll cursor

- 1 Scroll the map and move the scroll cursor to the place you want to search POI.
- 2 Touch 🥠.

See Step 2 of "Finding a POI in your surroundings" for the following operations.

- ⊃ Finding a POI in your surroundings → Page 24
- The distance indicated in the list of the search result is the distance from the scroll cursor to the facility.
- □ "Vicinity Search" in the Main menu searches your surroundings. On the other hand, in the case of in the Shortcut menu (→ Page 17), the area around the scroll cursor will be searched.

Setting an Entrance or Exit of a Motorway as Your Destination

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

- Touch "Destination" in the Main menu, and then touch "Motorway Search".
 The display for entering the name of the motorway appears.
- 2 Touch the country key of the destination country and touch "OK".
- **3** Enter the name of the motorway and touch "OK".

The list of motorways matching the name appears.

- **4 Touch the motorway.** The display for selecting your destination to the entrance or to the exit of the motorway appears.
- **5** Touch "Entrance" or "Exit".

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

6 Touch your destination.

You can also see the destination by touching the an on the right of the list.

Searching the destination by map → Page 21

Finding Your Destination by Specifying the Post Code

If you know the post code of your destination, you can use it to find your destination.

- 1 Touch "Destination" in the Main menu, then touch "Postal Code Search". The post code input screen appears.
- 2 Touch the country key of the destination country and touch "OK".
- **3** Input the post code.

A list of cities with the specified postal code is shown.

British post code:

If you input a British postal code, the map with the cursor on the selected position is shown. When you touch "**OK**", a route search begins.

Netherlands post code:

- If you input a complete post code, a list of street is shown.
- If you input a partial post code, and touch "**OK**", a list of cities is shown.
- 4 Search for your destination in accordance with the procedures after Step 5 in Chapter 1 "Basic Operation".
- Depending on the destination, the search may start directly.
- Not all post codes are recorded on the disc. Thus, you may not be able to find the location corresponding to the post code you enter.



MAN-CNDV-50MTP-EN.book Page 26 Friday, April 29, 2005 10:33 AM

Route Calculation to Your Home Location or to Your Favourite Location

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

- 1 Touch "Destination" in the Main menu, and then touch "Return Home" or "Go to".
- C "Registering your home and your favourite location" → Page 35

Selecting Destination from the Destination History and Address Book

Any place that has been searched before is stored in the "**Destination History**". Places that you have registered manually, such as your home, are stored in the "**Address Book**". Simply select the place you want to go to from the list and a route to that place will be calculated.

1 Touch "Destination" in the Main menu, and then touch "Address Book" or "Destination History".

2 Touch your destination name.

		in!	Martine
	🚓 🛣 Return Home		
	CREFELD CLOSE		
	GREENWICH		
	Real LALOR STREET		1
	😥 SINCLAIR ROAD	E	1
S Ž	👐 嵗 FRIEND		Back

Route calculation starts.

- ⊃ For information on the Address Book → Chapter 3
- ⊃ For information on the Destination History → Chapter 3
- You can also see the destination by touching the is on the right of the list.
- Searching the destination by map → Page 21



MAN-CNDV-50MTP-EN.book Page 27 Friday, April 29, 2005 10:33 AM

Modifying the Route Calculation Conditions

You can change the route calculation conditions using the Route Options menu. The following description features an example of changing the number of the route to be searched.

1 Touch "Route Options" in the Main menu. The Route Options menu appears.

2 Touch "Route No.".

The content currently set appears under the name of the item. Each time you touch the item, the setting changes. Repeatedly touch the item until the value you want to set appears.

Destination	Informat <u>ů</u>	ion Route	Options Settings
Auto Reroute On	Avoid Motorway Off	Avoid Ferry Off	Route Condition Fastest Off
Route No. 1	Avoid Toll Road Off	Areas to Avoid	Disp.Avoided Route On

Items that users can change

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

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.

Avoid Motorway

This setting controls whether or not motorways may be included in the road calculation. (A route using motorway may be calculated in some cases, such as when setting your destination far away.)

On:

Calculate a route that avoids motorways.

Off*:

Calculate a route that may include motorways.

Avoid Ferry

This setting controls whether or not ferry crossings should be taken into account.

On:

Calculate a route that avoids ferries. Off*:

Calculate a route that may include ferries.

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

Route Condition

This setting controls whether the faster or the shorter route should be calculated.

Fastest*:

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

Shortest:

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

Auto Avoid Traffic

When you check the traffic jams or closures on your route, set whether or not to search a route avoiding traffic jams or closures based on traffic information. (However, there may be times when traffic jams or closures cannot be avoided.) On:

Search a route with no traffic jams or closures. Off*:

Search a route with no regard for traffic jams or closures.

Route No.

This setting controls whether the system should calculate only one route, or several routes. 1*:

Only one route judged as being optimum by your Navigation System is calculated.

Multiple:

Several route options are calculated (maximum 6 routes).

Calculate several route options → Page 28



MAN-CNDV-50MTP-EN.book Page 28 Friday, April 29, 2005 10:33 AM

Avoid Toll Road

This setting controls whether or not toll roads (including toll areas) should be taken into account.

On:

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

Off*:

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

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

Areas to Avoid

⊃ About Areas to Avoid → Page 39

Disp.Avoided Route

This setting controls whether or not alternative routes may be presented. This might happen in case there are traffic jams or closures along the calculated route.

On*: If the system searches another route to avoid the traffic jams or closures and finds a new route, a map for comparing the current route with the new route is displayed. (Depending on the situation, a new route may not be displayed.) Off:

Alternative route is not recalculated.

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

You can get route calculations of several route options. After route options are calculated, select the one you want.

1 Set the "Route No." to "Multiple".

Changing the search conditions → Page 27

2 Search your destination and set the route. Calculated routes are shown in different

colours (from two to six routes).

3 Touch "Next" to change the displayed route.



The following information is displayed on this screen:

(1) Route calculation condition

Displaying the conditions set by the Route Options menu by icon.

- Use/avoid motorway 📆
- Use/avoid toll road 🕦 🔯
- Use/avoid ferry 📺 🕍

Displaying impracticability of fulfilling the conditions by icon.

- Pass through Area to Avoid 📓
- Use toll road against the setting "Avoid Toll Road" is "On".
- Use Ferry against the setting "Avoid Ferry" is "On".

(2) Distance to your destination(3) Travel time to your destination

You can see other places while displaying a candidate route by scrolling the map. Touching "Next" moves the next candidate route to the centre and indicates the map.

4 Touch "Information" to check the information on the selected route.

You can also check details of the roads along the selected route. (If you touch "**Back**", you can return to the previous display.)

- C "Route Scroll" → Page 29 (Step 3 and 4)
- ⊃ "Route Profile" → Page 29 (Step 3 and 4)
- After the route is calculated, it may take some time until the detailed route information (Route Profile) can be confirmed.

5 Touch "OK".

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



MAN-CNDV-50MTP-EN.book Page 29 Friday, April 29, 2005 10:33 AM

If the above operations are not performed within 30 seconds after the route calculation is completed and you have already started your vehicle, the route selected at the time is automatically chosen.

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.

Checking the set route with the map

- **1 Touch the map screen.** The Shortcut menu appears.
- 2 Touch . The Route/Detour menu appears.
- **3 Touch "Route Scroll".** The screen to select the point to start scrolling appears.

4 Touch the point to start scrolling.



You can select the following items:

- (1) Starting Point
- (2) Way Point (If this is set)
- (3) Destination
- If you have selected "Way Point", a list of the way points on the route is displayed. Touch the place you want to start scrolling from and proceed to Step 5.

5 Touch erem or erem to scroll the map. To continue scrolling after you release your

finger, touch and hold for or finger, touch and hold for the map can be changed.





You can select the following items: **Map:**

The scroll screen is displayed.

⊃ Searching the destination by map → Page 21

6 Touch "Back".

You can return to the previous display.

Checking the set route with text

- □ This function is not available if your vehicle has deviated from the set route.
- **1 Touch the map screen.** The Shortcut menu appears.
- 2 Touch 🛧. The Route/Detour menu appears.
- **3** Touch "Route Profile".
- 4 Check the contents on the display. As necessary, scroll the list. Name of the streets you are driving through



Driving distance

5 Touch "Back".

You can return to the previous display.





MAN-CNDV-50MTP-EN.book Page 30 Friday, April 29, 2005 10:33 AM

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 After touching "Information" in the main menu, touch "Route Profile" or "Route Scroll".

2 Check the contents on the display.

- ⇒ "Route Scroll" → Page 29 (Step 3 and 4)
- **⊃** "Route Profile" \rightarrow Page 29 (Step 3 and 4)

3 Touch "Back".

You can return to the previous display.

Recalculating the Route to Your Destination

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 Touch the map screen.

The Shortcut menu appears.

2 Touch 🛧.

The Route/Detour menu appears.

3 Touch "Reroute" or the distance from the list.

	1	TTANK STREET
1km detour		Reroute
2km detour] —	Cancel Route
5km detour		Route Profile
10km detour		Route Scroll
20km detour	$\left \right\rangle$	Skip Way Point
50km detour	Ì.	Back

After the route is calculated, the map screen shows your surroundings and route guidance is resumed.

On this display, you can select the following items:

Reroute:

The route from the current position to your destination is recalculated.

The distance of the detour (1-50 km/mile):

Searches detours of a specified distance in the route ahead of your current position.

- ⊃ For details of switching the display between "km" and "mile" (miles). "KM Mile Setting" → Page 51
- ⊃ "Auto Avoid Traffic" → Page 27



MAN-CNDV-50MTP-EN.book Page 31 Friday, April 29, 2005 10:33 AM

Cancelling the Route Guidance

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

1 Touch "Destination" in the Main menu, then touch "Cancel Route".

The message confirming whether to cancel the current route appears.

2 Touch "Yes (all)".



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

Yes (one):

Route is recalculated by cancelling the selected way point.

No:

Returns to the previous display without deleting the route.

 You can also cancel the route by selecting
 "Cancel Route" in the Route/Detour menu. (To display the Route/Detour menu, select I in the Shortcut menu.)

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 through these locations.

Adding a way point

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

1 Specify the location you want to visit.

Specify a way point in the same way as specifying a destination. At completion of the location search, a message is displayed asking whether or not to set that specified location as the destination, or as a pass-through location.

- Specifying the address and searching the destination → Page 12
- ⊃ Searching the destination by map → Page 21
- ⊃ Other search methods → Page 23 to 26
- 2 Touch "Way Point".

3 Confirm the contents of the list, and touch "Done".

M ADDISON ROAD	in the second	Add
M2 VICTORIA ROAD		Delete
M HOLLAND PARK		Sort
🕅 SINCLAIR ROAD		Original
A3218/OLD BROMPTON ROAD		Done

Route calculation with the specified location as a way point starts when you touch "**Done**". On this display, you can select the following items:

Add:

Switch the display to search for points. After searching, add that point as a way point by touching "**OK**".

- Specifying the address and searching the destination → Page 12
- ⊃ Searching the destination by map → Page 21
- ⊃ Other search methods → Page 23 to 26



MAN-CNDV-50MTP-EN.book Page 32 Friday, April 29, 2005 10:33 AM

Delete:

You can delete way points from the list. **Sort:**

You can sort your destination and way points. The system will put the nearest point (distance in a straight line) from the current location to way point 1, and sort the other points (including your destination) in the nearest order from previous way point.

Original:

You can return the way points and destination to their original order.

 If you set a way point(s) in the route to your destination, the route up to the next way point will appear light green. The rest of the route will be light blue.

Skipping a way point

If the points are set, the next way point along the route can be skipped.

1 Touch the map screen.

The Shortcut menu appears.

2 Touch 🛧.

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Setting a Route to Your Destination

32

The Route/Detour menu appears.

3 Touch "Skip Way Point".

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

4 Touch "Yes".

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 through a way point you have not yet reached, you can delete that place from the list of way points and calculate a new route.

1 Touch "Destination" in the Main menu, then touch "Cancel Route".

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

2 Touch "Yes (one)".

3 Touch the way point you want to delete.

M ADDISON ROAD	Add
M2 VICTORIA ROAD	Delete
Mi HOLLAND PARK	Sort
Mi SINCLAIR ROAD	Original
A3218/OLD BROMPTON ROAD	Done

If you want to delete other way points, touch "Delete" and repeat Step 3 above.

4 Touch "Done".

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

☐ You can also cancel the route by selecting "Cancel Route" in the Route/Detour menu. (To display the Route/Detour menu, select ☆ in the Shortcut menu.)

Displaying certain **POI** on the map

Selected POI in a certain category can be shown on the map, and you can check the location on the display.

1 Touch any part of the map screen. The Shortcut menu appears.

2 Touch $\hat{\mathbb{1}}$.

The list of POI categories appears.

- **3** Touch the category you want to display. The selected item is ticked. If you want to select other categories, repeat this step.
 - □ If you want to display with more detailed categories, touch 🖹. When the subcategory list appears, touch the item you want to display and touch "**Back**".
 - You can select the detail category up to 100 items.
 - If you touch one of the POI shortcuts (e.g.
), you can display POI immediately by selected category on the POI shortcut.

MAN-CNDV-50MTP-EN.book Page 33 Friday, April 29, 2005 10:33 AM

4 Touch "Back".

POI's in the selected category appear on the map.

- Searching the destination by map → Page 21
- ⊃ Viewing the information of POI → Page 20
- When some sub-categories are selected, the corresponding category is marked blue. When all the sub-categories within a category are selected, that category is marked red.
- You can also display POI by touching "Information" in the main menu, and then touching "Overlay POI".

Using POI shortcuts

Selecting POI shortcuts

You can select up to six shortcuts to your favourite category for the searching points of interest (POI).

As shipped from the factory, four icons are displayed: **Restaurants**, **Petrol Station**, **Hotel** and **Airport**.

1 Touch "Destination" in the Main menu, and then touch "Vicinity Search".

2 Touch "Set".



POI shortcuts

Displays a list of already selected POI shortcuts.

3 Touch "Add".



Displays a POI category list.

- **4** Touch the category you want to set. The selected item is ticked. If you want to
 - select other categories, repeat Step 3 and 4.
 - If you want to set more detailed categories, touch
 . When the subcategory list appears, touch the item you want to add and touch "Back".

5 Touch "Back".

The selected category is added to the list of POI shortcuts.

You can select a POI shortcut by touching "Information" in the main menu and then touching "Overlay POI". The steps are the same for both.

Use a registered shortcut to find POI near your vehicle

- 1 Either touch "Vicinity Search" in the main menu.
- 2 Touch the one of the POI shortcuts.



POI shortcuts

3 Touch POI.

See Step 3 of "Finding a POI in your surroundings" for the following operations.





MAN-CNDV-50MTP-EN.book Page 34 Friday, April 29, 2005 10:33 AM

Deleting a POI shortcut

- 1 Touch "Destination" in the Main menu, and then touch "Vicinity Search".
- 2 Touch "Set".
- **3** Touch "Delete". Displays a list of already registered POI
 - shortcuts.
- 4 Touch the shortcut to be deleted. A red tick appears next to the selected shortcut.
 - To delete all shortcuts, please touch "All".
 A red tick will appear next to each shortcut.

5 Touch "Delete".

Deletes the selected shortcut from the list.



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MAN-CNDV-50MTP-EN.book Page 35 Friday, April 29, 2005 10:33 AM

Chapter 3

Editing the Navigation Utilities

A CAUTION

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

Editing Registered Locations

The **Address Book** can store up to 300 registered locations. These can include home location, favourite place, and destinations you have already registered. This registered location information can also be modified. Also, routes to registered locations can be calculated by touch screen or voice. Registering places you visit frequently saves your time and effort.

- You can register up to 100 entries for voice operation. Two out of those 100 entries are allocated to the items that are registered to "Return Home" and "Go to".
- The Address Book is automatically updated in alphabetic order. However, "Return Home" and "Go to" always appear at the top.

Registering your home and your favourite location

Of the 300 registered locations that can be stored, home location and favourite location can be stored separately in the **Address Book**. Registering your favourite location for the first time is described here. You can change the registered information later. You might find it useful to register your workplace or a relative's home as your favourite location.

Map icons:

Home location icon

泳

Favourite location icon

1 Touch "Settings" in the Main menu, then touch "Go to".

When registering your home location, touch "Return Home".



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

The items already registered under "Return Home" or "Go to" can be modified.

2 Search for a location to register.

- Specifying the address and searching the destination → Page 12
- Searching the destination by map → Page 21
- ⊃ Other search methods → Page 23 to 26
- 3 Point the scroll cursor to the location you want to register and touch "OK". Completes the registration and returns to the previous display.
 - → "Editing a location's information" → Page 36



Editing the Navigation Utilities

MAN-CNDV-50MTP-EN.book Page 36 Friday, April 29, 2005 10:33 AM

Registering a previous location in the Address Book

Once a destination or way point is searched, it is automatically retained and stored in the **Destination History**. If a search is cancelled while still in progress, only the places where the map was displayed and scrolled through or places where the short-cut menu was displayed are retained and stored. Note that after 100 places are stored, new places are automatically overwritten on top of old ones, in oldest to most recent order. Therefore, to ensure that certain places are kept and not overwritten, be sure to register them in the **Address Book**.

- 1 Touch "Destination" in the Main menu, then touch "Destination History".
- 2 Touch is on the right-hand side of the place you want to register in the Address Book.

Â	RIDDONS ROAD		
두	ABBEY LANE 5		
	ROMOLA ROAD	1	
	HOLLYBUSH WALK		
	HAMBLEDON PLACE		
	ST GILES ROAD		Back

2

Editing the Navigation Utilities

36

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That place can be registered or deleted.

- The map of that place can be displayed.
- ⊃ Searching the destination by map → Page 21

3 Touch "Registration".

Registration is now complete.

- ➡ "Editing a location's information" → Page 36
- ⊃ in the Shortcut menu → Page 17

Editing a location's information

In the Address Book menu, touching the 🔄 on the right-hand side of the place displays the Address Book Operate menu. To edit the information about the location:

- 1 Touch "Destination" in the Main menu, then touch "Address Book".
- 2 Touch on the right-hand side of the place whose information you want to edit.

A	🚓 🛣 Return Home			
부	CREFELD CLOSE			
	GREENWICH		735	
	Real LALOR STREET		1	
	🔛 SINCLAIR ROAD	E		
S 🕹	«S 器 FRIEND			Back

12

The information related to that place can be edited.

10

The map of that place can be displayed.

Searching the destination by map → Page 21

(c**{**

Displayed on the left-hand side of places that can be searched by voice command.

3 Touch "Information/Edit".



The Address Information menu appears. Refer to the item corresponding to the subsequent operation. After finishing the operation, the Address Book menu appears. You can continue to edit other information items if necessary.



MAN-CNDV-50MTP-EN.book Page 37 Friday, April 29, 2005 10:33 AM

When you select "Yes", Kai is shown on the left side of the location name displayed in the Address Book menu. This mark indicates that

If the number of items to be used in voice operation exceeds 100, a list appears on the display. Select an item from the list and overwrite it.

during voice operation.

this name can be used as a voice command

- ⊃ You can also store locations in the Address Book on a PC card → Page 44
- □ You cannot change the name of your home.
- During voice operation, you can get a route calculated by saying the registered name.
- ⊃ Information on voice operation → Chapter 5

Entering or changing a phone number

1 Touch "Edit Phone Number".

2 Input a phone number; touch "OK". The Address Information menu appears.

To change a registered phone number, delete the existing number and then enter a new one.

Selecting a pictograph to appear on the map

1 Touch "Select Image".

2 Touch the Pictograph to appear on the map.

The Address Information menu appears.

You cannot change the mark of your home or of your favourite location.

Selecting sound

1 Touch "Select Sound".

2 Select the sound.

The Address Information menu appears. If you want to hear the operating sound, touch



Editing the Navigation Utilities



1. Name

- The name can be used as a command for voice operation. **2. Name (2nd line)**
- The name of the city appears in this column. (Not editable)
- 3. Phone number
- 4. Pictograph The symbol displayed on the map.
- 5. Sound

The selected operating sound is played.

Changing a name

1 Touch "Edit Name" and touch "Yes".

The message confirming whether or not to register the entered name as voice command is displayed.

Alternative option:

No:

When not registering a name as a voice command, select "**No**".

2 Enter a new name; touch "OK".

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. (If you selected "**No**" in Step 1, you can enter a new name between 1 and 23 characters long.)

3 If the pronunciation is correct, touch "Yes".

Is this pronunciation OK? OFFICE Yes No Repeat Back

The details you set are registered, and the Address Book menu appears.

Alternative options:

No:

Select to return to the display for entering characters.

Repeat:

You can reconfirm the pronunciation of the name you entered.

MAN-CNDV-50MTP-EN.book Page 38 Friday, April 29, 2005 10:33 AM

Deleting Address Book or Destination History Information

Items registered in the **Address Book** or **Destination History** can be deleted. All entries of the data in the **Address Book** or **Destination History** can be deleted at once.

- Touch "Destination" in the Main menu, then touch "Address Book".
 To delete items in the Destination History, touch "Destination History".
- 2 Touch is on the right-hand side of the place you want to delete.
- **3** Select the deletion method.



A message confirming deletion appears.



Alternative options: **Delete This Item:**

Delete the location selected in Step 2. **Delete All Address Book Entries (or Delete All Destinations):** Delete all the Address Book or Destination

History data.

4 Select "Yes".

38

The data you selected is deleted.

Alternative option: **No:**

The display shown in Step 3 appears.

 Because deleted data cannot be restored, take extra care not to select "Delete All Address Book Entries" by mistake.

Changing the position of locations registered in the Address Book

You can select a location registered in the **Address Book**, display a map of its surroundings, and change its position.

- 1 In the Address Book menu, touch i on the right-hand side of the place whose position you want to change.
- **2 Touch "Modify Location".** The map of the selected area and its surroundings appears.
- **3** Touch the display to change its position, then touch "OK".



The position is changed.

MAN-CNDV-50MTP-EN.book Page 39 Friday, April 29, 2005 10:33 AM

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 Route Options menu.

Registering an Area to Avoid

This section describes how to register an Area to Avoid for the first time. You can register up to five Areas to Avoid.

- 1 Touch "Route Options" in the Main menu, then touch "Areas to Avoid".
- 2 Select one of the items shown in "New Area".

When registering for the first time, any item on the list is shown as "**New Area**".

New Area 1
New Area 2
New Area 3
New Area 4
New Area 5
Back

3 Select the place to register and display the map.

- Specifying the address and searching the destination → Page 12
- ⊃ Searching the destination by map → Page 21
- ⊃ Other search methods → Page 23 to 26

Once a search is complete, a map with the specified location at its centre appears.

4 Change the map scale and decide the size of the Area to Avoid.

The Area to avoid is enclosed in a red frame.

You can also change the map scale though the maximum map scale for registering Areas to Avoid is 100 m (0.1 miles). 5 Scroll the map, adjust the position of the red frame, and touch "OK".



If you want to stop registration, touch "Back".

- Depending on the setting of route search conditions, you may not be able to avoid the specified areas. The confirmation message is displayed on the screen at this time.
- ⊃ Information on route calculation conditions → Page 28

Changing or deleting an Area to Avoid

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

- **1** Touch "Route Options" in the Main menu, then touch "Areas to Avoid".
- 2 Select the area you want to change or delete.
- **3** Select the desired operation.



On this screen, you can select the following options:

Rename:

Changes the name. Enter the new name and touch "**OK**". This returns you to the Route Options menu.

Change:

A specified area can be changed. For the next steps, see Step 3 in the "Registering an Area to Avoid" above.

Delete:

Delete the selected Area to Avoid.



Editing the Navigation Utilities

MAN-CNDV-50MTP-EN.book Page 40 Friday, April 29, 2005 10:33 AM

Using Traffic Information

You can check traffic jam transmitted by the FM radio service through the Radio Data System (RDS-TMC) on the display. Such traffic jam is updated periodically. When you receive traffic jam, the Navigation System automatically displays an icon informing you of the traffic jam. You can also select whether to recalculate the route to avoid a traffic jam. (In this case, route calculation is carried out by considering traffic jam within a 150 km (92 mile) radius from your current location.)

The "traffic jam" in this section indicated the following types of traffic information; stop and go, stopped traffic, closed/blocked roads.

Viewing traffic information

Checking all traffic information

1 Touch "Information" in the Main menu, then touch "RDS-TMC".

The list with received traffic information is shown.

2 Touch ♀ or ☆ to view the incident list. Places where incidents have occurred are displayed in the list.



- 1. Road number (or street name)
- 2. Place name
- 3. Direction to the spot
- 4. Incident

40

- 5. Distance from the current location6. The incident numbers currently
- displayed and the total number of incidentsThe incidents that have already been read,
- will be displayed in white. Unread incidents will be in yellow.

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

♦ A-Z

You can sort the traffic information in alphabetical order.

+ 🛦

You can sort the traffic information according to the incident (In the order of accident, jams, road works, and others).

🕈 km

You can sort the traffic information by distance (from your current location).

Refresh

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

3 Select an incident you want to view in detail.

The details of the selected incident are displayed.

□ Touching an incident you want to see allows you to view the detailed information of the incident. If the information cannot be displayed on one screen, touch
view the remaining information.

4 Touch "Back" to return to the list with traffic information.

A list with traffic information appears again.

Checking traffic information on the route

1 Touch "Information" in the Main menu, and then touch "Traffic On Route".

The currently set traffic information on the route appears on the screen.

- The method for checking the content displayed on the screen is the same for "Checking all traffic information".
- ⊃ Checking all traffic information → Page 40





MAN-CNDV-50MTP-EN.book Page 41 Friday, April 29, 2005 10:33 AM

Confirming traffic information on the map

The traffic-related information displayed on the map is as follows.



TICUL

- 1. Name of the service provider, radio station or frequency currently being received. ⊃ Selecting the radio station → Page 42 When a route has been calculated, touch to check whether there is any traffic jam information on your route. When no route has been calculated, touch to display the traffic list.
- 2. A line to indicate the length of the traffic jam (displayed only when the scale on the map is 1 km or lower; Stop and go: orange, Stopped traffic: red, Closed or blocked roads: black)
- 3. Icon for traffic information (appears only when the scale on the map is 20 km or lower)

If you want to check the traffic information details, move the scroll cursor onto the 🔊, etc. and touch 🔄. This allows you to view place names and other information.

□ 2 and 3 are not displayed with the city map.

Information on avoiding traffic jam on route ahead

If you turn on the setting "Disp. avoided route" in the Route Options menu, and there is a traffic jam on your route (at least 1 km (0.75 miles) ahead on an ordinary road, while driving on the motorway, 2.6 km (1.6 miles) ahead), the Navigation System automatically searches for a detour possibility.

If a better route can be calculated, the following screen will appear.



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

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

On this screen, you can select the following items:

New:

A new route is displayed on the screen. Current

The current route is displayed on the screen. OK:

Select the route to that displayed on the screen.

When no selection is made, the current route will be automatically selected after a short while

When checking traffic jam information manually

Pressing the **GUIDE** button on the remote control for 2 seconds or touching screen allows you to check for traffic jam information on your route.

If there is any information about a traffic jam on your route, a message appears asking you whether to search for another route to avoid the traffic jam. If there is no traffic jam information along the route being guided, it is announced on screen and by voice.

If there is a traffic jam on the route

When receiving information about a traffic jam, the message announcing the presence of a traffic jam is indicated. (Voice recognition then becomes available automatically.) On this screen, you can select the following

items:

Yes: The route is recalculated taking the traffic jam

into account.

No:

The message disappears, and the map display reappears.



MAN-CNDV-50MTP-EN.book Page 42 Friday, April 29, 2005 10:33 AM

List:

The list with traffic information on the route is displayed.

If there is no traffic jam information on the route

If there is no traffic jam information, the message informing that there is no traffic jam information on the route, is shown.

On this screen, you can select the following items:

List:

A list of traffic information is displayed.

Back:

Message disappears, and returns to the map screen.

□ If there is no traffic jam information, the Navigation System does not automatically switch to voice recognition.

Selecting traffic information to display

Select the type of traffic information for the navigation system to display. The items selected here apply to the traffic list and the map.

\bigcirc

1 Touch "Information" in the Main menu, and then touch "Traffic Settings".

The icon for the traffic information currently being displayed appears on the screen.

2 Touch "Change".



The name of the displayed traffic information items and list of icons appears on the screen.

3 Touch the traffic information item to display.

A red tick appears next to the selected traffic information.



Alternative option:

All:

All the items are selected at once.

□ Touch "Back" to not add the selected traffic information.

4 Touch "Done".

The selected traffic information icon is added to the screen.

5 Touch "Back".

Traffic jam of type stop and go, stopped traffic and closed or blocked roads cannot be deselected and are always displayed.

Selecting the radio station

The RDS-Tuner of the navigation system automatically tunes to the radio station to receive available traffic information (RDS-TMC station). If reception is poor, you can switch to another station manually. Once the receiving radio station is selected, the system automatically tunes to stations that provide traffic information according to the location of the vehicle.

Tuning to a RDS-TMC station with good reception

1 Touch "Information" in the Main menu, then touch "Manual Station Search".

2 Touch "Next".

Available radio stations can be searched automatically. If a radio station with a good reception is found, the tuning mode is stopped.





MAN-CNDV-50MTP-EN.book Page 43 Friday, April 29, 2005 10:33 AM



Alternative option:

Store:

Add the current RDS-TMC station in the preset list. If there are already five stations stored in the list, select one to be overwritten.

□ If you want to continue to search for another station, repeat this procedure.

3 Touch "OK".

Returns to the Information menu.

Selecting from pre-registered RDS-TMC stations

You can pre-select up to five RDS-TMC stations (Preset Station). From the list of the RDS-TMC stations, you can select the one you want to receive.

1 Touch "Information" in the Main menu, then touch "Manual Station Search". The list of registered RDS-TMC stations appears. This list of broadcasting stations (Preset Station) cannot be used unless those broadcasting stations have been stored.

2 Select a radio station from the list. The currently selected RDS-TMC station



Switching to the specified RDS-TMC station.

Using a PC Card

You can store the following information on a PC Card (sold separately):

- Locations registered manually such as your home, your favourite location, or a location whose information was edited (Registered Locations)
- Information on when you travelled, on where you have come from and gone to, and the distance from starting point to destination (Driving Log History)
- Background image when navigation or audio is operated (Background Picture)
- The PC card is very useful for sharing the data in the Address Book with friends or for storing the data as backup.
- If a PC card is not inserted in the navigation system correctly, PC card functions are not available.
- For details of PC cards that support this system, refer to the following.
 - If you are using "AVIC-9DVD" or "AVIC-8DVD", refer to the "Operation Manual".
 - If you are using models other than the above, refer to the "Hardware Manual".

Initialising a PC card

Before using a brand new PC card, you must initialise it.

- 1 Touch "Information" in the Main menu, then touch "PC card" and "Initialise PC Card".
 - Do not cut off the power supply for the navigation system (or turn the ignition switch to ACC OFF) until initialisation of the PC card is complete.

2 Touch "Yes".

If you want to cancel the initialisation, touch " $\ensuremath{\text{No}}$ ".



MAN-CNDV-50MTP-EN.book Page 44 Friday, April 29, 2005 10:33 AM

Storing the data of registered locations in the PC card

You can select any entry registered in the **Address Book** and store the data on the PC card. Data can be stored in groups. A new group can be created.

- The volume of data you can register depends on the capacity of the PC card.
- 1 Touch "Information" in the Main menu, then touch "PC card" and "Store on PC Card".
- 2 Touch the desired item for storage. Free space in the PC card



Number of groups you can store

The selected entry is ticked. To register other locations, repeat this step.

Alternative option:

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Editing the Navigation Utilities

44

All: All the locations are selected (or cancelled) at once

3 After finishing the selection of locations, touch "OK".

4 Touch "New Group".

- If the data is to be stored in a group already registered in the PC card, select the group name in the list.
- **5** After entering a group name, touch "OK".



The data of the registered location is stored in the entered group.

Loading registered locations data from a PC card

Address Book data stored on a PC card can be loaded to the Navigation System.

- ⇒ Page 72
- 1 Touch "Information" in the Main menu, then touch "PC card" and "Read from PC Card".

The list of groups appears.

2 Touch the desired group.

3 Touch the desired locations.



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

Alternative option:

All:

All the locations are selected (or cancelled) at once.

4 Touch "OK".

The data of the selected locations is stored in the **Address Book**.

Deleting PC card data

You can delete data for a specified location or a whole group.

- 1 Touch "Information" in the Main menu, then touch "PC card" and "Delete PC Card Data".
- 2 Touch a group where the location you want to delete is stored.
- **3** Touch a location you want to delete and touch "OK".

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

MAN-CNDV-50MTP-EN.book Page 45 Friday, April 29, 2005 10:33 AM

Alternative option:

Select (or cancel) all locations in a group.

4 Touch "Yes".

The specified location is deleted.

Recording the Driving Information

You can store a journey you actually travelled (known as the "**Driving Log History**") on the PC card. Then you can use a PC to check when you made that journey, and where it was from and to. You can also record whether the driving history was "**Private**" or "**Business**".

The following information is stored as the driving history:

• File name

e.g.)



- (1) P:Private log/B:Business log
- (2) Year
- (3) Month
- (4) Day
- (5) Time
- (6) Minute
- (7) Suffix

Contents

(1) Private Log

(2) 2004/11/02 10:08 from (E 2 11'32.0", N ...

(3) 2004/11/02 10:10 to (E 2 11'22.2", N 48...

- (4) Total Distance: 1482 (m)
- (1) The purpose of the journey (Private or Business)
- (2) Information of starting point (longitude and latitude)
- (3) Information of end point (longitude and latitude)
- (4) Travelling distance from the starting point to the end point
- PC card data is stored as a text format file. Each file is stored in the LT folder of the PC card.

Here, a method of recording driving information is described with an example of recording the driving history as data for business.

1 Insert a PC card into the PC card slot.

2 Touch "Settings" in the Main menu, then touch "Driving Log History".

After the purchase, the Navigation System is set not to record the tracking. "**Off**" is displayed below "**Driving Log History**", showing that this function is turned currently Off

3 Touch the "Driving Log History" and select "Business".



Each touch of the "**Driving Log History**" changes the settings as follows:

Private:

Driving history is recorded as private data. **Business:**

Driving history is recorded as business data. **Off:**

Driving history is not recorded.

- 4 Press the NAVI (or POS) button to return to the map of your surroundings. Once you start the vehicle, recording of the driving history starts.
- □ Information from the starting point to the end point is registered as one file. The location where the driving record is turned On/Off becomes the starting/end point. If the setting is left On, the location where the engine was started becomes the starting point of the drive, and the location where the power is turned off becomes the end point. (If the information for the end point cannot be stored properly, an error may occur for a few minutes of driving information data.)



Editing the Navigation Utilitie:

MAN-CNDV-50MTP-EN.book Page 46 Friday, April 29, 2005 10:33 AM

- If this function is turned On while driving, driving data is continuously stored on the PC card. If you do not use this function, it is recommended to turn it Off to save space on the PC card.
- If this function is turned On, you can select whether to turn it On (Private or Business) or Off immediately after the Navigation System itself is switched on.
- With this Navigation System, the registered Driving Log cannot be edited.

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 playback.
- Navigation Background: Background of navigation menu screen.

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Editing the Navigation Utilities

46

Several background pictures are stored in the Pioneer DVD map disc.

Here, a method of changing background picture is described with an example of loading the picture stored on a PC card to the navigation system as the background picture.

- □ The "**AV Background**" cannot be used with the AVD-W6210.
- When storing original pictures on a PC card, create a folder named "BG" in a PC card, and store the picture files in this folder. Up to 20 picture files can be used in the BG folder.
- When changing the background screen, please change the settings so that the combined display also can display the navigation system unit's background.
- Only JPEG format (".jpg" or ".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).
- Pictures up to a maximum of 2048×1536 pixels can be used. We cannot guarantee a proper operation for a picture bigger than this size.
- Progressive format JPEG pictures cannot be used.
- 1 Insert a PC card into the PC card slot.
- 2 Touch "Settings" in the Main menu, then touch "Background Picture Setting". The picture selected for each screen is indicated on the right side of "AV Background" and "Navigation Background" items.
- **3** Touch "Navigation Background" or "AV Background".



4 Touch "Import from PC card".

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.

In Step 4, touching other than "Import from PC card" allows you to select a background image stored on the Pioneer DVD map disc.

- **5** Touch a picture you want for the background.
- 6 Select how to display the picture. You can select the following items: Centre:

MAN-CNDV-50MTP-EN.book Page 47 Friday, April 29, 2005 10:33 AM

Selected picture is displayed at the centre of the screen.

Repeat:

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

When selecting images already stored on the Pioneer DVD map disc, you cannot select the layout method for those images.

The background image starts changing. After a short while, the new background image appears.

7 Touch "Done".



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 5.

Change to another background:

Select if you want to successively change the Audio Operating screen backgrounds or the Navigation backgrounds. Return to Step 3.

- When changing a picture starts, do not cut off the power supply for the navigation system (or turn the ignition switch to ACC OFF) until the message informing the completion of changing a picture is indicated.
- □ When the Navigation System is reset, or the language setting is changed, the background picture may change back 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, set the background picture again.

Checking the Navigation Status

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

Checking sensor learning status and driving status

1 Touch "Information" in the Main menu, then touch "3D Calibration Status".

The 3D Calibration Status screen appears.



- 1. Distance Driving distance is indicated.
- 2. Speed Pulse
- Total number of speed pulses is indicated. 3. Learning Status
- Current sensor status is indicated. 4. Degree of learning
- Sensor learning situations of distance (Distance), right turn (**Right Turn**), left turn (Left Turn), and 3D detection (**3D** Detection) are indicated by the length of bars.

5. Speed

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

6. Acceleration and deceleration/ Rotational speed

Accelerated or decelerated velocity of your vehicle is indicated. Also, rotational speed when your vehicle turns to left or right is shown.

7. Inclination

Degree of slope of the street is indicated.



Editing the Navigation Utilities

MAN-CNDV-50MTP-EN.book Page 48 Friday, April 29, 2005 10:33 AM

To clear values...

If you want to delete the learned results stored in "Distance", "Speed Pulse" or "Learning Status", touch each item, then touch "Clear".

The navigation system can automatically detect outer dimensions of the tyres. If tyres have been replaced, the navigation system automatically detects it and begins learning according to the new tyres.

Checking the connections of leads and installation positions

Check that leads are properly connected between the navigation unit and the vehicle. Please also check whether they are connected in the correct positions.

1 Touch "Information" in the Main menu, then touch "Connection Status".

The Connection Status screen appears. The reception status of the signal and the connection status of each cable are shown.

Speed Pulse 0 BPS Aerial 0K Yr ////////

1. Speed Pulse

The Speed Pulse value detected by the navigation system is shown. "0" is shown while the vehicle is stationary.

2. GPS Aerial

48

Indicates the connection status of the GPS aerial, the reception sensitivity, and from how many satellites the signal is received. The sign of "**OK**" is displayed when the signal is received normally. The sign of "**No good**" is displayed when the reception condition is not good.

3. Installation Position

Indicates whether the Installation position of the navigation unit is correct or not. When the navigation unit is installed with an extreme angle exceeding the limitation of the installing angle, "**Incorrect angle**" will be displayed. When the angle of the navigation unit has been changed, "Excessive vibration" will be displayed.

4. Hand brake

When the handbrake is applied, "**On**" is displayed. When the handbrake is released, "**Off**" is displayed.

5. Power Voltage

The power supply (reference value) provided from the vehicle battery to the navigation system 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 vehicle are on, "**On**" is displayed. (If the orange/white lead is not connected, "**Off**" appears.)

7. Back Signal

When the gear lever is shifted to "R", the signal switches to "**High**" or "**Low**". (Which of these is displayed depends on the vehicle.)



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MAN-CNDV-50MTP-EN.book Page 49 Friday, April 29, 2005 10:33 AM



Customising Your Navigation System

A CAUTION

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

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 "KM Mile Setting" settings is set to "Mile".

1 Touch "Settings" in the Main menu. The Settings menu appears.

2 Touch "Next".

The screen changes. "**km**" is displayed below "**KM Mile Setting**", indicating that this function is currently set to "**km**".

- When you touch items with a setting below them, their setting changes. When you touch items with no setting below them, a setting screen appears.
- □ Touching "Next" or "Previous" changes the screen and displays another item.

3 Touch "KM Mile Setting".





Chapter 4

"Mile" is displayed below "KM Mile Setting", indicating that "KM Mile Setting" is set to "Mile".

If you want to change another setting, select the item you want to change and repeat the procedure in Step 3.

Items Users can Change

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

Return Home

C Registering and changing your home location → Page 35

Go to

Control Co

Average Speed

When calculating expected time of arrival and the number of hours to the destination, the average speed for the motorway or ordinary road used is set.

Touch "+" and "-" to change the numeric value.

- Minor Ordinary Road
- When the "**KM Mile Setting**" is set to "**km**", it can be set in 5 km increments from 20 km to 110 km (40 km*).
- When the "KM Mile Setting" is set to "Mile" or "Mile & Yard", it can be set in 5 mile increments from 10 miles to 100 miles (30 mile*).



MAN-CNDV-50MTP-EN.book Page 50 Friday, April 29, 2005 10:33 AM

• Major Ordinary Road

- When the "KM Mile Setting" is set to "km", it can be set in 5 km increments from 20 km to 150 km (60 km*).
- When the "KM Mile Setting" is set to "Mile" or "Mile & Yard", it can be set in 5 mile increments from 10 miles to 120 miles (40 mile*).
- Motorway
- When the "KM Mile Setting" is set to "km", it can be set in 5 km increments from 60 km to 150 km (120 km*).
- When the "KM Mile Setting" is set to "Mile" or "Mile & Yard", it can be set in 5 mile increments from 30 miles to 120 miles (80 mile*).

Modify Current Location

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

Hardware Volume

The sound volume for the navigation can be set. You can separately set the volume of the route guidance and of the beep sound.

Touch "+" and "-" to change the numeric value.

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**".

Customising Your Navigation System

Repeat:

Repeat demo drive. Off*:

Demo Mode is set off.

Day/Night Display

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

Illuminated*:

You can change the combination of the colours of a map according to whether the vehicle lights are On or Off.

Daytime:

50

The map is always displayed with bright colours.

Map Display

Screen display-related items can be set.

• Tracking Display

The tracking display setting has the following options.

Always:

Display tracking for all journeys.

This Trip:

Display tracking dots but erase them when the navigation system is turned off (when turning off the engine of your vehicle or turn the ignition switch to ACC OFF).

Off*:

Do not display tracking dots.

AV Guide Mode

Setting whether or not to switch to the navigation screen automatically when your vehicle approaches a guidance point such as an intersection while displaying a screen other than navigation.

On*:

Switching from audio operation screen to navigation screen.

Off:

Screen is not switched.

 You cannot use this function when the AVD-W6210 is connected.

Close-up of Junction

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

On*:

Display switches to an enlarged map.

Off:

Does not switch to an enlarged map.

Arrow in AV

Set whether to display the guidance information by arrow on the Audio Operation screen of the Pioneer AV Head Unit or Display.

On*:

Display guidance information by arrow on the Audio Operation screen.

Off:

Do not display guidance information by arrow on the Audio Operation screen.

 You cannot use this function when the AVD-W6210 is connected. MAN-CNDV-50MTP-EN.book Page 51 Friday, April 29, 2005 10:33 AM

Background Picture Setting

⊃ The background picture can be changed → Page 46

Language Selection

⊃ The language displayed can be set → Page 59

Once you change the language, installation of the program starts.

• Once the installation of the program starts, do not cut off the power supply for the Navigation System and do not switch off the Navigation System until the installation is completed and the map of your surroundings appears.

Mute Setting

Items related to muting of sound volume can be set.

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

C "About AV Head Units/Displays to be connected" → Page 61

Voice Recognition

This setting controls whether the volume of the audio source is automatically muted during voice operation.

On*:

During voice operation, the volume of the audio source is muted automatically.

Off:

The volume of the audio source stays the same during voice operation.

□ If you select "**Off**", the sound from the audio source may interfere with the voice recognition system.

• Voice Guidance

This setting controls whether the volume of the audio source is automatically muted during voice guidance.

On*:

During voice guidance, the volume of the audio source is muted automatically.

Off:

The volume of the audio source stays the same during voice guidance.

Time

Adjusts the systems clock. The time difference (+, -) between the time originally set in the navigation system is set here. You can also select summer time On/Off.

⊃ Time settings → Page 60

On:

Summer time is taken into account. **Off*:**

Summer time is not taken into account.

- When the period of summer time comes, or when the summer time ends, the navigation system does not automatically change the summer time setting.
- ⊃ Change the summer time setting → Page 60

Service Info Screen

Displays the disc production number and version information.

KM Mile Setting

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

km *:

Show distances in kilometres. **Mile:**

Show distances in miles.

Mile & Yard: Show distances in miles and yards.

Auto Voice Recognition After you have started the engine, turn on voice recognition and set whether or not to perform all operations up to route searching by voice. (This function is effective only when a route is not set.)

On:

The automatic voice recognition is engaged each time your vehicle is started.

Off*:

For starting Voice operation, press the **TALK (or VOICE)** button or touch **VOICE** icon.



Customising Your Navigation

System

MAN-CNDV-50MTP-EN.book Page 52 Friday, April 29, 2005 10:33 AM

Voice Recog.Help

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

On*:

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The list of commands is shown. Off: The list of commands is not shown.

Driving Log History

Record driving history on PC card.

Private*:

Driving history is recorded as private data. Business: Driving history is recorded as business data. Off:

Driving history is not recorded.

C "Recording the Driving Information" → Page 45





MAN-CNDV-50MTP-EN.book Page 53 Friday, April 29, 2005 10:33 AM

Chapter 5

Operating Your Navigation System with Voice

Basics of Voice Operation

To Ensure Safe Driving

A CAUTION

• For safety reasons, Voice Help menu (Voice Recog.Help) is not available while your vehicle is in motion. To enable this function, you must stop in a safe place and put on the handbrake before setting your route.

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 (or VOICE) button or touch VOICE icon to activate voice operation.
- 2 Speak a command into the microphone.
- **3** When the command is recognised, 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 (or VOICE)** button. ("CD-SR90" and "CD-SR100" can be used. For the details of their operation, see the instruction manuals attached to them.)

When using voice operation for the first time

Until you are familiar with this system, it is recommended to stop the vehicle in a safe place and refer to the commands displayed in the Voice Help menu (a list of the words you can speak). When your vehicle is parked with the handbrake on, press the **TALK (or VOICE)** button or touch **VOICE** icon to display a list of available voice commands (Voice Help menu). Display of the Voice Help menu can be turned on/off with "**Voice Recog.Help**" in the Settings menu.

MAN-CNDV-50MTP-EN.book Page 54 Friday, April 29, 2005 10:33 AM





When voice command is possible



When voice command is not accepted

➤ When you are used to voice operation features and no longer need Voice Help, you can turn it off → Page 52

Scrolling through the Voice Help Menu

Scroll through the remaining commands using Δ or \overline{a} . You can also display the commands by saying the words "Next Page" (or "Previous Page").

- 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".

To cancel voice operation

You can cancel voice operation features at any time by pressing the **NAVI (or POS)** button on the Navigation System. After you cancel voice operation, the map is displayed.

- If the system fails to recognise the command you speak, press the TALK (or VOICE) button or touch VOICE icon or say "Next option" and other operable commands will be displayed. If you then press the TALK (or VOICE) button or touch VOICE icon within 3 seconds, yet more commands are shown. Repeat this until the command you want to use is shown.
- □ If there are too many items to list, "1/**" is displayed.
- Depending on the operating state of the navigation system, some commands displayed in Voice Help may be unavailable.

If no command is made in the next 6 seconds, voice recognition is cancelled and the Navigation System is on hold until the next operation. Press the **TALK (or VOICE)** button or touch **VOICE** icon to reactivate voice operation.

Operating by only voice when the Navigation System is started

Turning on "**Auto Voice Recognition**" in the Settings menu allows all settings to be implemented by voice from after the navigation system is turned on and until the route is set (applies only if the route is not yet set).

If you press the TALK (or VOICE) button on the remote control during voice operation, voice operation mode is cancelled.

Voice Commands

Common commands

Next Page, Previous Page, Back, Repeat, Next Option

Commands for display change

Displaying the navigation screen: Display Navi Displaying the Audio screen: Display AV

Available voice commands related to navigation

You can say the following commands:

Give the following verbal commands after switching to the navigation screen.

Specifying your destination

New Destination, Address Book, Return Home, <Registered name>, <POI category name>

 For the Address Book, <Registered name>, and <POI category name>, only the commands displayed in Voice Help can be used.

Operating the route being guided

Reroute, XX km/mi detour, Cancel Route, Cancel Way Point, Traffic List, Route Profile, Use/Avoid Motorway, Use/Avoid Ferry, Use/Avoid Tollroad, Fastest Route, Shortest Route, Avoid TMC, Traffic On Route List

MAN-CNDV-50MTP-EN.book Page 55 Friday, April 29, 2005 10:33 AM

Changing map display

Street Map, City Map, Region Map, Driver's View, Map Mode, Street List Mode, Mixed Mode, Overlay Points Of Interest, Cancel Overlay POI

Available voice commands related to audio

- The commands you can give verbally depend on the source being switched.
- Some commands may be cancelled according to the condition of audio unit being combined.
- Some commands do not operate depending on the connected AV Head Unit or Display.

Common commands for Audio operations

Tuner, CD Changer, Navigation Audio, DVD Changer, Monitor DVD, D.V.D Video, Digital Radio, Television, Video In, Auxiliary, Source On, Source Off

For TUNER source

Preset Station 1-6, Start BSM, Change Band

For Multi-CD (M-CD) source CD Track 1-20, Random Play, Disc 1-12, ITS Play

For DAB source Preset Station 1-6

For TV source

Preset Station 1-12, Start BSSM

For S-DVD (M-DVD) source Disc 1-6, ITS Play, Random Play

For NAVI source

CD Track 1-20, Repeat Play, Random Play

An Example of Voice Operation

In this example, you want to search for the nearest petrol station. When presented with a list of search options, you say the number to the left of the option you want to select.

- Give the following verbal commands after switching to the navigation screen.
- ⊃ Voice commands related to Navigation → Page 54

1 Press the TALK (or VOICE) button or touch VOICE icon.

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

2 Say "New Destination".

A message to prompt the next operation is given.





Uttering <POI category name> using this procedure starts a vicinity search in that category. In this case, proceed to Step 6.

3 Say "Local Search".

You say the contents you want to operate. Here, selection method of your destination is specified. When you want to search the petrol station nearest to the current location, say "Local Search".

4 Say "Petrol Station".

Displays the name of a major petrol station group.

5 Say "All Categories".

The map of the nearest petrol station is shown. The message, "Do you want to stop in?" follows.

MAN-CNDV-50MTP-EN.book Page 56 Friday, April 29, 2005 10:33 AM



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 6 say "Next" (or "Previous").
- □ If you say "No", the map of that place can be displayed.
- \supset Searching the destination by map \rightarrow Page 21

To spell out characters and symbols

When entering street names, city names, names of POIs, or post codes, speak one character at a time. For example, if you want to enter "A", say "Alpha".

Name		Category
City		54409
A (((\$ J (A)Alpha	(D)Delta	
0 (B)Bravo (C)Charlie	(E)Echo (F)Foxtrot	1/8

□ Uttering "City name" in "Address search" selects city name input mode. (The default is street name input mode.)

	Pronunciation		Pronunciation
1	One	Ν	November
2	Two	0	Oscar
3	Three	Ρ	Papa
4	Four	Q	Quebec
5	Five	R	Romeo
6	Six	S	Sierra
7	Seven	Т	Tango
8	Eight	U	Uniform
9	Nine	V	Victor
0	Zero	W	Whiskey
А	Alpha	Х	X-Ray
В	Bravo	Y	Yankee
С	Charlie	Ζ	Zulu
D	Delta	_	Space
Е	Echo	-	Hyphen
F	Foxtrot	1	Apostrophe
G	Golf	&	And
Н	Hotel	/	Slash
	India		Full stop
J	Juliet	,	Comma
Κ	Kilo	\$	Dollar
L	Lima	+	Plus
Μ	Mike	"	Quotation mark

□ Touching any area of the screen during the voice input mode will switch to the text input screen. To return to the voice input mode, touch **VOICE** icon on the text input screen.



Operating Your Navigation System with Voice

MAN-CNDV-50MTP-EN.book Page 57 Friday, April 29, 2005 10:33 AM

To finish the entry by spelling and to make the Navigation System display a list of options

To finish entry of the spelt-out name of a city, street, POI, or post code, say "Verify". A list of relevant items is displayed.

ιω ⁶	7	
1. DPLOM TERARZT DOKTOR MEYER JEAN 1. HAUS JEANETTE 2. HAUS JEANETTE 3. DOKTOR CLAUDE JEANNE FRÜHWALD 4. JEANY ROKS 5. DOKTOR SHIB BRAJEBENS 5. JERENSTEN 7. JEBING	1/25	

1 After inputting some characters, say "Verify".

A list of items matching the entry appears. Each item has a matching number on the left.

- If all items cannot be shown on one screen, say "Next Page" to display the following page. Say "Previous Page" to return to the previous page.
- □ If no possible item is found, the display returns to the previous page.

2 Say the number of the item you want.

The map of the selected location appears on the display. The message, "Do you want to stop in?" follows.

3 After confirming the location, say "Yes". Replying "Yes" starts a route calculation of the place displayed as the destination (or way point) on the map.

- □ If you say "No", the map of that place can be displayed.
- Searching the destination by map → Page 21

Tips for Voice Operation

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

Reduce the volume setting on your vehicle audio system

- ⊃ The sound volume is automatically reduced during voice operation → Page 51
- > If your Pioneer Head Unit has a Mute lead, the sound volume of the Head Unit is automatically reduced during voice operation
 → Page 51
- Some Pioneer Head Unit models have a Mute control function.
- C "About AV Head Units/Displays to be connected" → Page 61

Close the vehicle windows

Please note that wind through the vehicle window or miscellaneous noise from outside the vehicle can interfere with voice operation.

Position the microphone carefully

For optimum pick-up, the microphone should be fixed at a suitable distance directly in front of the driver.

Pause before giving a command

Speaking too soon may cause the recognition to fail.

Pronounce your commands carefully

Speak slowly, deliberately and clearly.

Operating Your Navigation System with Voice

Chapter 5







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MAN-CNDV-50MTP-EN.book Page 59 Friday, April 29, 2005 10:33 AM

Appendix

Installing the Program

The program is installed to the Navigation System using the application disc.

This is not necessary if your dealer already performed the installation.

When installing the program, you carry out the following operations. When all the setup procedures are completed, you can use the Navigation System.

- **1** Turn on the ignition and start the engine.
- 2 Make sure you are stationary and in a safe location, and that the handbrake is applied.
- **3** Insert the disc.
- .
- 4 Select the language used for the Navigation System.
- 5 Setting the clock.

- You cannot go back to the previous (preupgrade) version of the application after the software upgrade is completed. Also, the map discs that were previously used cannot be used. Instead, use the CNDV-50MT DVDs as your new map discs.
- **1** Park your vehicle in a safe place. Leave the engine on, and make sure that the handbrake is on.

2 Insert the Pioneer DVD Map disc to the disc loading slot of the Navigation System.

When upgrading, installation of the version upgrade program starts immediately.

A CAUTION

- Once the installation of the program starts, do not cut off the power supply for the navigation system (or turn the ignition switch to ACC OFF) until the installation is completed and the map of your surroundings or Audio screen appears.
- **3** Press the NAVI/AV button to change the navigation screen.

4 Touch "Yes/Oui/Ja".

When you start the navigation unit for the first time, you will see a confirmation message asking if you wish to select another language. English is the default language of the Navigation System. If desired, you can select another language as shown.

- □ To keep English, touch "**No/Non/Nein**". After this, proceed to Step 7.
- When you want to select another language, touch "Yes/Oui/Ja", and proceed to the next step.

5 Select the language from the list.





Installation of the program, in the language you chose, begins.



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MAN-CNDV-50MTP-EN.book Page 60 Friday, April 29, 2005 10:33 AM



When the installation is complete, the opening display appears.



6 Press the NAVI/AV button to change the navigation screen.

Some time is needed until navigation is ready.

7 Check the details of the cautionary message and touch "OK".

Appendix

60

8 To set the time difference, touch "+" or "_".



Time difference

The time difference between the time originally set in the navigation system (Central European Time) and the current location of your vehicle is shown. If necessary, adjust the time difference. Touching "+" or "-" changes the time difference display in one-hour increments. The time difference can be set from +3 to -3 hours.

9 If necessary, set to summer time. Summer time is off by default. Touch "Summer Time" to change the time if summer time is in effect. This turns the display below Summer Time "On".



10To complete the setting, touch "Back".



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 → Page 51

Combining and Using Pioneer AV Equipment

To Ensure Safe Driving

A WARNING

- To avoid the risk of an accident and the potential violation of applicable laws, the navigation system 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 vehicle even by persons other than the driver may be illegal. Where such regulations apply, they must be obeyed.

MAN-CNDV-50MTP-EN.book Page 61 Friday, April 29, 2005 10:33 AM

About AV Head Units/Displays to be connected

You need an AV head Unit or Display with a touch panel feature to use this software. If a display that does not have a touch panel feature is connected, the software will not function properly. This includes Pioneer displays that do not have touch panel features. Make sure to use a display suitable for the system. For details, consult a dealer or product catalogue.

Group 1 – AV Head Unit

The type of the unit that can be a control master with the following features (e.g. AVH-P7500DVDII,

AVH-P5700DVD, AVH-P6600DVD, AVH-P6500DVD, and AVH-P7500DVD):

- a source unit can be connected to it directly, and
- a built-in amplifier and display are equipped.

Group 2 – Display Type AVD

The type of the unit that has a built-in amplifier only for the built-in speaker(s) and cannot be a control master because other unit cannot be connected to it (e.g. AVD-W6210).

Group 3 – AV system display

The type of the unit that has no amplifier and cannot be a control master because other unit cannot be connected to it (e.g. AVX-7600).

Features available	to	each	Group	
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	Group 1	Group 2	Group 3	
"Touch Panel Operation when using NAVI	V		V	
source" (→ Page 63)	^	_	^	
Map Display				
 AV Guide Mode (→ Page 50) 	Х	-	Х	
 Arrow in AV (→ Page 50) 	Х	-	Х	
Mute Setting				
 Voice Recognition (→ Page 51) 	X *1	X *1	X *2	
 Voice Guidance (→ Page 51) 	X *1	X *1	X *2	
"Common commands for Audio operations"	X	_	- *3	
(→ Page 55)	~	_	- 5	



*1: The AV Head Unit or Display must be set to Mute or ATT while the Guidance is being performed by the Navigation System.

*2: Available when the GUIDE ON lead of the Navigation System is connected to the Pioneer Head Unit.

*3: Recognizable commands are Source On, Source Off, Display AV, Display Navi, Navigation Audio, Video In, Next page, Previous page, Repeat, and Back.



MAN-CNDV-50MTP-EN.book Page 62 Friday, April 29, 2005 10:33 AM

Characteristics of the Navigation System when combined with Pioneer AV Head Unit or AV System Display

When the navigation system is combined with a Pioneer AV Head Unit or AV System Display, you can use the Navigation screen to confirm information on the audio equipment being played or you can use the Audio Operation screen of the Pioneer AV Head Unit or AV System Display to confirm route guidance information. Also, you can use the Pioneer AV Head Unit or AV System Display to select the built-in DVD player of the Navigation System as a "NAVI Source". (Navigation unit that cannot play DVD-Videos or CDs on the built-in DVD-ROM drive cannot be selected as a source.)

When you approach an intersection with the Audio Operation screen displayed, an enlarged map of the intersection appears. When you have passed through the intersection, the display reverts to the Audio Operation screen.

➔ You can also operate audio equipment by voice → Chapter 5

(example) Navigation screen Map display



Information of AV being played

(example) Arrow display on CD screen Information of AV being played



- If you want to operate the Navigation System while the enlarged intersection map is displayed, press the NAVI/AV button on the display to switch to the navigation map.
- When pushing the NAVI/AV button with the map disc inside the Navigation unit, the NAVI source screen may show "DISC DATA READING" or may be blank.
- ⊃ The Arrow display or enlarged intersection map display can be turned on or off → Page 50
- D NAVI Source → "Switching the source" of the Pioneer AV Head Unit or AV System Display combined with the navigation system.
- □ For the connection methods → see the installation manuals of AV equipment and your navigation unit, or consult the shop or dealer where you purchased the navigation system.

When resetting AV Head Unit or AV System Display

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

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Appendix

MAN-CNDV-50MTP-EN.book Page 63 Friday, April 29, 2005 10:33 AM

Touch Panel Operation when using NAVI source

When the system is combined with the Pioneer AV Head Unit or AV System Display, if you use the built-in DVD player to play a DVD-Video or CD when using the NAVI Source, the operation buttons are displayed on the screen and a few limited operations can be performed.



(e.g. When AVH-P5700DVD is connected)

- 1. Switching the source
- During DVD playback: Forwarding/ rewinding the chapter. During CD playback: Forwarding/ rewinding the track.
- 3. For future use.
- 4. Cancelling the operation buttons.

Cautions when connecting a Rear Display to the Front Display

The map screen navigation images output to the rear display differ from standard NTSC format images. Therefore, their quality will be inferior to the images that appear on the front display.

Switching the rear display → the manual for the display you are combining.

Positioning Technology

The Navigation System accurately measures your current location by combining the positioning by GPS and by Dead Reckoning.

Positioning by GPS

The Global Positioning System (GPS) uses a network of satellites orbiting the Earth. Each of the satellites, which orbit at a height of 21,000 km, continually broadcasts radio signals giving time and position information. This ensures that signals from at least three can be picked up from any open area on the earth's surface.

The accuracy of the GPS information depends on how good the reception is. When the signals are strong and reception is good, GPS can determine latitude, longitude, and altitude for accurate positioning in three dimensions. But if signal quality is poor, only two dimensions, latitude and longitude, can be obtained and positioning errors are somewhat greater.



Positioning by dead reckoning

The 3D Hybrid Sensor in the main unit also calculates your position. The current location is measured by detecting driving distance with the speed pulse, the turning direction with the Gyrosensor, and inclination of the road with the G sensor.



The 3D Hybrid Sensor can even calculate changes of altitude, and corrects for discrepancies in the distance travelled caused by driving along winding roads or up slopes. Also, the Navigation System learns the driving conditions and stores information in the memory; thus, as you drive more, the precision of the positioning becomes more accurate.

The method of positioning changes as follows depending on whether the speed pulse of your vehicle is detected or not:

3D hybrid mode

This is active when the speed pulse is detected. Inclination of a road 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 vehicle enters



MAN-CNDV-50MTP-EN.book Page 64 Friday, April 29, 2005 10:33 AM

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 vehicle 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 tyre wear and the rolling motion of your vehicle. 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. The system detects the fact that the tyre diameter has changed, and automatically replaces the value for calculating distance.
- If the ND-PG1 is used or if your vehicle is operating in Simple hybrid mode, the distance calculation value cannot be replaced automatically.

64

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 vehicles travel only on roads, and can correct your position by adjusting it to a nearby road. This is called 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 vehicle. In this case, it is impossible for the system to use GPS positioning.



In tunnels or enclosed parking garages



Under elevated roads or similar



When driving among high buildings



When driving through a dense forest or tall trees

- If a vehicle 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 vehicle 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 vehicle's actual position and the current location mark on the map may diverge considerably. Once GPS reception is restored, accuracy will be recovered.

Vehicles that Cannot Obtain Speed Pulse Data

The speed pulse data comes from the speed sensing circuit. The location of this speed sensing circuit depends on your vehicle 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.

Conditions Likely to Cause Noticeable Positioning Errors

For various reasons such as the state of the road you are travelling on and the state of reception of the GPS signal, the actual position of your vehicle may differ from the position displayed on the map screen.

• If you make a slight turn.





• If there is a parallel road.



• If there is another road very nearby, for example, an elevated motorway.







MAN-CNDV-50MTP-EN.book Page 67 Friday, April 29, 2005 10:33 AM

• If you put on chains, or change your tyres 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.

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• If you join the road after driving around a large vehicle park.



• When you go round a roundabout.



- When starting driving immediately after starting the engine.
- If you insert the disc and turn your Navigation System on while driving.

Some types of vehicle may not output a speed signal while driving at just a few kilometres per hour. In such a case, the current location of your vehicle may not be displayed correctly while in a traffic jam or in a vehicle park.

About the Data being Deleted

The following items are erased by pushing the **RESET** button or disconnect yellow lead from battery (or remove the battery itself).

- Items set in the SET-UP MENU of the built-in DVD player (AVIC-9DVD, AVIC-9DVDII, AVIC-900DVD)
- Background picture setting
- Tracking





 $(\mathbf{\Phi})$ MAN-CNDV-50MTP-EN.book Page 68 Friday, April 29, 2005 10:33 AM

Troubleshooting

Appendix

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If you have problems operating your Navigation System, refer to this section. The most common problems are listed below, along with likely causes and solutions. While this list is not comprehensive, it should answer your most common problems. If a solution to your problem cannot be found here, contact your dealer or the nearest authorised Pioneer service facility.

Problems in the navigation screen

Symptom	Cause	Action (See)
Power doesn't turn on.	Leads and connectors are incorrectly	Confirm once more that all
The unit doesn't operate.	connected.	connections are correct.
	The fuse is blown.	Rectify the reason for the fuse blowing, then replace the fuse. Be very sure to install the correct fuse with the same rate.
You cannot position your vehicle on the map or the positioning error is large.	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 vehicle 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.) • If a vehicle 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 vehicle wax, because this may block the reception of GPS signals. Snow buildup can also degrade the signals.	Check the GPS signal reception (→ Page 48) and the position of the GPS aerial if necessary, or continue driving until reception improves. Keep the aerial clear.
	Signals from the vehicle's speed pulse are not being picked up properly.	Check that the cables are properly connected. If necessary, consult the dealer that installed the system.
	The navigation unit may not be mounted securely in your vehicle.	Check that the navigation unit is securely mounted and, if necessary, consult the dealer that installed the system.
	Your vehicle is operating in Simple hybrid mode.	Connect the speed signal input (pink lead wire) of the power cable correctly, and clear the 3D Hybrid Sensor memory ("Learning Status").
	The navigation unit is installed with an extreme angle exceeding the limitation of the installation angle.	Confirm the installation angle. (The navigation system must be installed within +30 degrees to -15 degrees of the horizontal, or within five degrees of your vehicle's direction of travel.)



MAN-CNDV-50MTP-EN.book Page 69 Friday, April 29, 2005 10:33 AM

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Symptom	Cause	Action (See)	l
	Setting of the Installation direction lever is wrong.	Check the installation position of the navigation unit of your Navigation System and the setting of the Installation direction lever (→ "Installation Manual").	
	Indication of the position of your vehicle is misaligned after a U-turn or reversing.	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.	The travelling direction is always set to north.	Touch 📷 on the screen and change the map display.	
Tracking marks are not displayed.	The "Tracking Display " is turned off.	Check the " Tracking Display " settings (→ Page 50) and make sure "Always" or "This Trip" is selected.	
The daylight display is used even when the vehicle lights are on.	Daytime is selected on " Day/Night Display ".	Check the " Day/Night Display " setting (→ Page 50) and make sure " Illuminated " is selected.	
	The Orange/white lead is not connected.	Check the connection.	
The system will not switch on or will not operate.	Installation or connection has been carried out incorrectly.	Check with your dealer.	
The display is very dim.	The vehicle's light is turned ON, and "Illuminated" is selected on "Day/ Night Display".	Read about the " Day/Night Display " setting (→ Page 50) and, if desired, select " Daytime ".	
	The vehicle cabin temperature is extremely low.	A Liquid Crystal Display (LCD) is used, and such displays tend to darken when cold. Wait for the vehicle to warm up.	
There is no voice guidance or the volume is low.	The volume setting is low or the speaker lead is disconnected.	Check the volume setting on the display or turn the volume up according to " Hardware Volume " (→ Page 50) and/or turn up the volume on the display.	Appendix
The remote control fails to work.	Uses a type of remote control that cannot be used with a touch panel system.	This navigation system mainly uses touch panel operation. If you use a remote control, only some of the system's buttons can be used.	
	The batteries are low.	Change the batteries.	
	The batteries have been inserted incorrectly.	Check that the batteries are properly inserted according to the + and – markings.	
	The remote control is pointing at the floor or a seat.	Ensure that the remote control has a clear line of sight to the display unit.	
	The signal receptor on the display is exposed to direct sunlight.	Move the remote control closer to the receiver on the display unit.	

When the screen is frozen...

Park your vehicle 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.



MAN-CNDV-50MTP-EN.book Page 70 Friday, April 29, 2005 10:33 AM

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Appendix

70

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.

Message	When	What to do
You cannot use this function while driving.	While trying to make a menu selection.	Pull over and come safely to a halt, put the handbrake on, and then try again.
Please insert the appropriate disc. This is not the appropriate disc. Please insert the appropriate disc.	 If you try to use a disc which is incompatible with this system. If you insert a disc upside down. If the disc is dirty. If the disc is cracked or otherwise damaged. 	 Insert a suitable disc. Insert the disc with the label upward. Clean the disc. Insert a normal, round disc.
Irregular speed pulse signal is detected. Please turn system power off and check the installation. After checking, please re-boot the system and press "OK".	If the Navigation unit does not receive the vehicle speed pulse.	Consult your Pioneer dealer.
Speed pulse wire is not connected. Please be sure to connect the system to the speed pulse wire. Accuracy is not fully ensured without speed pulse.	The speed signal input (pink lead wire) of the power cable is not connected.	To operate with 3D hybrid mode, connect the speed signal input (pink lead wire) of the power cable 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.
Vibration is detected. Please turn system power off and check the installation. After checking, please re-boot the system and press "OK".	While the vehicle is stationary, the Navigation System is installed in a place where the navigation unit may be affected by a large vibration.	Re-install the navigation unit of the Navigation System in a place where the navigation unit will not be affected by vibration.
Direction of G sensor is not correct. Please turn system power off and check the installation. After checking, please re-boot the system and press "OK".	Direction of G sensor is set incorrectly.	See the "Installation Manual" and set the direction of G sensor correctly.
Gyro Sensor is not working properly. Please consult your dealer or Pioneer service centre.	Abnormal output of Gyrosensor is detected.	Note down the error code shown on the screen; turn off the power, and then contact your nearest Pioneer service facility.
System detected that the vertical angle of the installation has been changed. Learning status for Gyro Sensor has been initialised.	In case the mounting angle of the navigation unit is changed.	The system initialises the sensor in order to operate it with the maximum performance and automatically starts re-learning.
System detected that the vertical angle of the installation exceeds the permission level. Please install the navigation unit correctly.	The navigation unit is installed with an extreme angle exceeding the limitation of the installation angle.	Check the installation position of the navigation unit of your Navigation System and the setting of the Installation direction lever (→ "Installation Manual").
		Confirm the installation angle. (The navigation system must be installed within +30 degrees to -15 degrees of the horizontal, or within five degrees of your vehicle's direction of travel.)
If time data has been lost it cannot be saved to the PC Card.	If this message is displayed, the built- in battery of the navigation unit might be running out.	 Check that the GPS aerial is correctly connected. Consult the Pioneer Local dealer if this message persists.
MAN-CNDV-50MTP-EN.book Page 71 Friday, April 29, 2005 10:33 AM

Message	When	What to do	1	
Route calculation was not possible.	Route calculation has failed because of malfunction of map data, software, hardware, or disc.	 Change the destination. Clean the disc. Consult the Pioneer Local dealer if this message persists. 		
Route calculation was not possible because the destination is too far.	The destination is too far.	 Set a destination closer to the starting point. Set one or more way points. 		
Route calculation was not possible because the destination is too near.	The destination or way point(s) is too close.	Set a destination [and way point(s)] farther from the starting point.		
Route calculation was not possible due to traffic regulations.	 The destination or way point(s) are in a Control Traffic Zone (CTR) and the route calculation is hampered. Your vehicle is currently in a Control Traffic Zone (CTR) and the route calculation is hampered. 	 Set a destination and way point(s) outside the CTR if you know where the restricted area is. Try the destination or way point(s) away from the currently set points to some extent. Drive your vehicle to an unrestricted area and reset the destination and way point(s). 		
Route calculation was not possible because no guidance can be provided around the destination or the starting point.	The destination, way point(s), or starting point are in an area where no road exists (e.g. a mountain) and the route calculation is impossible.	 Set a destination and way point(s) on roads. Reset the destination after you drive the vehicle to any road. 		
There is no route to the destination.	The destination or way point(s) are in an isolated island, etc. without a ferry and the route calculation is impossible.	Change the destination.		
Your journey can not avoid the specified area.	If route setting cannot avoid specified Areas to Avoid .	If the current route is not desired, set destination or way points that do not pass through the Areas to Avoid .		
The route could not avoid the specified area. Toll road has not been avoided.	If the route to the destination (or way point) cannot be established by bypassing toll roads (including toll areas) and Areas to Avoid .	If the current route is not desired, set destination or way points that do not pass through toll roads (including toll areas) and Areas to Avoid .	Append	
Ferry has not been avoided.	In case a ferry route was included in the route to the destination or way points even though "Avoid Ferry" was set to "On".	If the current route is not desired, set destination or way points that do not pass through a ferry route.	ed, set 😾	
Toll road has not been avoided.	If the route to the destination (or way point) cannot be established by bypassing toll roads (including toll areas).	If the current route is not desired, set destination or way points that do not pass through toll roads (including toll areas).		
There is no applicable data for the selected city. Automatically returning to list.	If the history data of the City could not be used (for example, in case that the history data of the City that was used in the POI Search cannot be found in the Address Search .)	Once the search is performed to specify the City, the result is saved as a history. The data of the specified City, however, may not be hit by the different search criteria. In this case, try another search method or change the destination.	, ,	
There is no Mortorway in this area.	If no motorway was found in the selected country.	Set the destination or way points using another search method or change the location of the destination or way points.		
This area does not contain any POI's of the selected type.	Facilities of the selected category do not exist in the surrounding areas.	Use another search method or move to another location and perform the POI search again.		
The maximum number of registrations has been completed. Please clear existing registered items and re-register current item.	If there are already 300 items when you attempt to register an item in the Address Book .	Delete unnecessary data and try to register again.		

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71

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 (\mathbf{e}) MAN-CNDV-50MTP-EN.book Page 72 Friday, April 29, 2005 10:33 AM

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Appendix

72

Message	When	What to do
Memory is full.	When the total 300 registered points are in the PC card and Address Book , you attempt moving an item to the Address Book from PC card.	Delete unnecessary data on the system and try to register again or reduce currently selected items.
Too many records are selected. Please indicate what records that you would like to remove from the memory.	When the total 98 registered points for using voice recognition are in the PC card and Address Book , you attempt moving an item to the Address Book from PC card.	Delete some registed items as appropriate or reduce currently selected items.
	If the number of registered records of the voice recognition reaches or exceeds 98.	Delete some registed items as appropriate.
You can select up to 98 records with voice recognition.	If the number of registered records of the voice recognition reaches or exceeds 98.	Reduce currently selected items.
Irregular character strings. Please input again.	A symbol that cannot be pronounced was entered.	Enter a word that can be pronounced.
There is no /BG/ folder. Please create /BG/ folder and store JPEG files in that Folder.	Cannot load the image because the BG folder is not found in the inserted PC card.	Use the appropriate data after reading "Changing Background Picture" on page 46.
Data read error. Change is cancelled.	Failed to read the data because the PC card is out of specifications. Or, the PC card slot is faulty.	 Use a PC card that conforms to the specifications. (Refer to Hardware Manual or Operation manual of the navigation system.) Consult the Pioneer Local dealer if this message persists.
JPEG file is corrupt. Change is cancelled.	The data is damaged or an attempt was made to set a JPEG image, that is out of specifications, as the background picture.	Use the appropriate data after reading "Changing Background Picture" on page 46.
Data Read error. Back to Original Background. Please do not turn power off.	Failed to read the data because the PC card is out of specifications. Or, the PC card slot is faulty.	 Use a PC card that conforms to the specifications. (Refer to Hardware Manual or Operation manual of the navigation system.) Consult the Pioneer Local dealer if this message persists.
There are no files available in /BG/ folder.	If the BG folder exists on the PC card but no data in JPEG format exists.	Use the appropriate data after reading "Changing Background Picture" on page 46.
Initialisation failed.	If the PC card could not be initialised for any reason.	Use the PC to initialise.
DISC DATA READING	With the map disc inside the Navigation unit, the NAVI source screen has been displayed by pressing the NAVI/AV button.	Select any other source besides NAVI source, or press the NAVI/AV button to switch to the Navigation map.

If a message about the PC card is displayed

• If there is no more space on the PC card or 300 items of data are already stored in one group, either delete unnecessary data or create a new group.

- If the data read from the PC card combined with the data registered in the Address Book exceeds 300 items, either delete unnecessary data or reduce the amount of data read from the PC card.
- If there is no more space on the PC card when the "Driving Log History" is on, use your own PC to delete unnecessary data of the PC card. •

MAN-CNDV-50MTP-EN.book Page 73 Friday, April 29, 2005 10:33 AM

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.

A 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. One-way streets and street closures may not be taken into consideration. For example, if a street is open during the morning only, but you arrive later, it would be against the traffic regulations so you cannot drive along the set route. When driving, please follow the actual traffic signs. Also, the system may not know some traffic regulations.
- Update Navigation DVDs are available for purchase from your local Pioneer dealer that includes the most current map and point of interest information. Contact your local Pioneer dealer for details.

About the route condition

When the calculation of only one route is set, you can search a route option by combining the following conditions.

> How to set the calculation conditions → Page 27

For example, when "**Fastest**" and "**Avoid Motorway**" ("**On**") are combined, the route, which avoids motorway, 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 motorway or not

Avoid Motorway:

Calculate a route that avoids motorway. (A route using the motorway may be set if your destination is far away.)

- •••••
- The system assumes the driver deviated either intentionally or inadvertently from the route and searches for another route (intelligent rerouting). Depending on the situation, the system may search a new route that does not return to the original one.
- 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, or the route is





MAN-CNDV-50MTP-EN.book Page 74 Friday, April 29, 2005 10:33 AM

set by voice operation, only one route is calculated.

- Route setting is limited to the range of the disc in use.
- When 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 the motorway 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 motorway 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:

Appendix

74

- when your vehicle 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" distance, or your preference to avoid motorways, toll roads, 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.
- 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

- Auto Reroute function will work when you deviate more than 30 m (0.01 mi) from your route.
- Auto Reroute function does not work in the following cases:
 - when you are too close to your destination
 - when your vehicle is not on a street
 - when your vehicle is on a ferry
 - when driving on a road inside a facility
 - when driving on a roundabout
 - when driving on the routes are described in "Roads not Used in Calculations".

Route highlighting

- Once set, the route is highlighted in bright green or light blue on the map.
- The immediate vicinity of your starting point and destination may not be highlighted, and neither will areas with particularly complex road layouts. Consequently, the route may appear to be cut off on the display, but voice guidance will continue.

Roads not Used in Calculations

Even though displayed onscreen, the following roads are not included in route calculations.

- Stubble Road
- Walk Way
- Public vehicle only
- Non routable road

Non routable roads (pink colour road)

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

Intersection enlargement

- When "Close-up of Junction" 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.

MAN-CNDV-50MTP-EN.book Page 75 Friday, April 29, 2005 10:33 AM

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 230 km (145 miles) is marked and, as you travel beyond this limit, tracking marks are erased in order from the most distant. Tracking display shows about 200 km tracking of your vehicle with white dots.
- ⊃ Tracking can also be set for automatic erasing whenever the Navigation System is switched off → Page 50

About traffic information

- Because the information is updated only periodically, it may take time to collect all the information.
- Not all RDS stations provide traffic information.
- Instead of the broadcasting station name appearing, the name of the service provider or the music being played may be displayed. The information content depends on the
- information of the sender of the transmission.Traffic information is not taken into account in calculating estimated time of arrival time or travel time for your destination.
- The navigation system may not be able to receive traffic information in some areas.
- Pioneer does not bear responsibility for the accuracy of the information transmitted.
- Pioneer does not bear responsibility for changes to information services provided by broadcasting stations or by related companies, such as cancellation of the services or changing to pay-services. Also, we do not accept return of the product for this reason.

About the Data for the Map Database

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- It is strictly prohibited to reproduce and use any part or the whole of this map in any form without permission from the copyright owner.
- If the local traffic regulation on the site deviates from this data, follow the local traffic regulation signs or indications.
- The traffic regulation data used in this map apply only to regular vehicles. Note that regulations for large vehicles or motorbikes are not included in the database.

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MAN-CNDV-50MTP-EN.book Page 76 Friday, April 29, 2005 10:33 AM

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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 vehicle's position. A learning function increases its accuracy and its 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 vehicle; 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 Route Options menu or the Settings menu.

Destination

A location you choose as the end point of your journey.

Favourite 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.

Menu

A list of options shown on the display; choices can be selected touching the display.

Navigation map disc

This DVD-ROM disc contains Pioneer navigation software. Map data is also recorded on the disc.



MAN-CNDV-50MTP-EN.book Page 77 Friday, April 29, 2005 10:33 AM

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.

Region number

DVD players and DVD discs feature region numbers indicating the area in which they were purchased. Playback of a DVD is not possible unless it features the same region number as the DVD player.

RDS-TMC

A communication system for informing drivers of the latest traffic information using FM multiplex broadcast. Information such as traffic jams or accidents can be checked on the display.

Remote Control

The remote control unit for the system (\rightarrow Chapter 1 of the "Hardware Manual").

Route setting

The process of determining the ideal route to a specific location; route setting is done automatically by the system when you specify a destination.

Set route

The route marked out by the system to your destination. It is highlighted in bright green on the map.

Tracking

Marks on the map indicating the route you have travelled.

Voice guidance

The giving of directions by a recorded voice while in guidance mode.

Voice recognition

The technology that allows the system to understand the driver's voice commands.

Way Point

A location that you choose to visit before your destination; a journey can be built up from multiple way points and the destination.





MAN-CNDV-50MTP-EN.book Page 78 Friday, April 29, 2005 10:33 AM

Display Information

Main menu







Information

Route Profile	P. 29
Overlay POI	P. 32
Connection Status	P. 48
RDS-TMC	P. 40
Traffic Settings	P. 42
Route Scroll	P. 29
PC Card	P. 43
3D Calibration Status	P. 47
Manual Station Search	P. 42
- Traffic On Route	P. 40

MAN-CNDV-50MTP-EN.book Page 79 Friday, April 29, 2005 10:33 AM



Settings		
Return Home]▶	P. 35
- Go to]	P. 35
Average Speed]	P. 49
Modify Current Location]	P. 50
Hardware Volume]	P. 50
Demo Mode]	P. 50
Day/Night Display]	P. 50
Map Display]—	
Background Picture Setting]	P. 46
Language Selection]	P. 51, 59
Mute Setting]	
Time]	P. 51, 60
Service Info Screen]	P. 51
KM Mile Setting]	P. 51
Auto Voice Recognition]	P. 51
Voice Recog.Help]	P. 52
Driving Log History]	P. 45







MAN-CNDV-50MTP-EN.book Page 80 Friday, April 29, 2005 10:33 AM

Shortcut menu



1 km(mi) – 50 km(mi) detour

P. 30



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_____ -€| MAN-CNDV-50MTP-EN.book Page 81 Friday, April 29, 2005 10:33 AM





MAN-CNDV-50MTP-EN.book Page 82 Friday, April 29, 2005 10:33 AM





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