

# NAVIGATION SYSTEM

<b>Preparation</b> See page 4 for specific information.	<b>Before Use</b>
<b>Immediate use</b> See page 4 for specific information.	<b>Getting started</b>
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	<b>Volume Adjustment</b>
<b>If necessary</b> See page 5 for specific information.	<b>If necessary</b>

## Accessories

Please contact an Authorized Mazda Dealer if you are missing the following accessory.



● Map Disc

### **CAUTION:**

**THIS PRODUCT IS A CLASS I LASER PRODUCT. HOWEVER THIS PRODUCT USES A VISIBLE/ INVISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THIS PRODUCT CORRECTLY AS INSTRUCTED. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.**

### **Laser products:**

Wave length: 650 nm

Laser power: No hazardous radiation is emitted with safety protection.

# MEMO



Before Use

# Contents

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## Preparation

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# Safety Information

- Read this owner's manual for your Navigation System carefully before using the system. It contains instructions about how to use the system in a safe and effective manner. Mazda assumes no responsibility for any problems resulting from failure to observe the instructions given in this manual.
- This manual uses pictographs to show you how to use the product safely and to alert you to potential dangers resulting from improper connections and operation. The meanings of the pictographs are explained below. It is important that you fully understand the pictographs and explanations in order to use this manual and the system properly.



## Warning

The presence of this Warning symbol in the text is intended to alert you to the importance of heeding the operation instructions. Failure to heed the instructions may result in severe injury or death.



- **Do not keep your eyes fixed on the monitor screen or operate the system while driving.**

Do not change the settings and destination locations while driving. Minimize the time spent on viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and can cause accidents. Always stop the vehicle in a safe location and use the parking brake before operating the system.

- **Always obey local traffic regulations.**

Your guided route may include roads that are not open to vehicles or are closed due to traffic regulations. Comply with the local traffic regulations and take another route.

- **Do not use the unit when it is out of order.**

If the unit is out of order (no image, no sound) or in an abnormal state (has foreign matter in it, is exposed to water, is smoking, or smells), then turn it off immediately and consult with an Expert dealer, we recommend an Authorized Mazda Dealer. Using the unit in an out-of-order condition may lead to accidents, fires, or electric shocks.

- **Use the proper power supply.**

This product is designed for operation with a negative grounded 12 V DC battery system.

- **Do not disassemble.**

Do not disassemble the product or attempt to repair it yourself. If the product needs to be repaired, take it to an Expert dealer, we recommend an Authorized Mazda Dealer.



Caution

## Caution

The presence of this Caution symbol in the text is intended to alert you to the importance of heeding the operation instructions. Failure to heed the instructions may result in injury or material damage.



Cautions

- **Do not use the product where it is exposed to water, moisture, or dust.**  
Exposure to water, moisture, or dust may lead to smoke, fire, or other damage to the unit. Make especially sure that the unit does not get wet in car washes or on rainy days.
- **Keep the voice guidance volume at an appropriate level.**  
Keep the volume level low enough to be aware of road and traffic conditions while driving.
- **Protect the Deck Mechanism.**  
Do not insert any foreign objects into the slot of this unit.
- **This navigation system is designed exclusively for use in automobiles.**  
This navigation system should only be installed in an automobile. Do not install it in a ship, aircraft, or any other vehicles except an automobile. Do not use it detached from the vehicle.
- **Do not insert or allow your hand or fingers to be caught in the unit.**  
To prevent injury, do not get your hand or fingers caught in moving parts or in the disc slot. Especially watch out for infants.

Operation is subject to the following two conditions;

(1) this device may not cause interference, and

(2) this device must accept any interference,

including interference that may cause undesired operation of the device.

# Introduction

## Use This Product Safety

### ■ Extremely low or high temperatures may interfere with normal operation

The inside of the vehicle can become very hot or cold when it is parked for extended periods in direct sunlight or in cold places with the engine turned off. The navigation system may not operate normally under such circumstances. Turn off the navigation system until the inside of the vehicle has cooled down or warmed up. If the system does not operate thereafter, consult an Authorized Dealer, we recommend an Authorized Mazda Dealer.

## Navigation System

This navigation system utilizes GPS\* satellite signals, a speed sensor and gyrosensor to track and display your vehicle's current position, and to guide you from your starting point to your destination along a calculated route.

\* : GPS (Global Positioning System) is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Defense Department.

## Screens

**Screens displayed in this manual may differ from those on the actual display.**

## LCD (Liquid crystal display)

Direct sunlight or other outside light sources makes it difficult to view the images on the display. For moonroof-equipped vehicles, close the sunshade to better view the display.



# MEMO

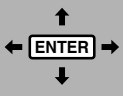


Before Use

# Names and Functions

## Mazda 3

**Joystick**




- Selects items by tilting it up, down, right, and left.
- Scrolls map.


**RET key**

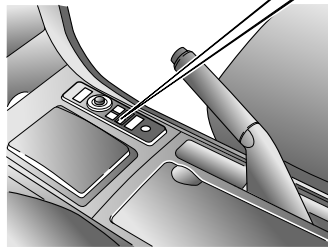
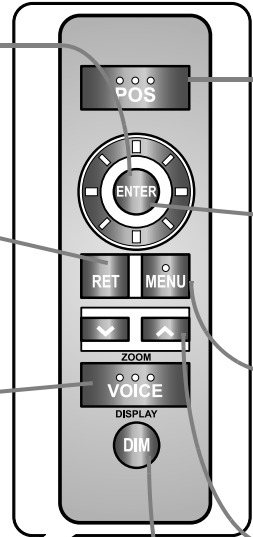


Returns to the previous screen.

**VOICE key**



- Initiates vocal guidance for route maneuvers.
- Adjusts screen quality. (  page 28)



POS

**POS (Position) key**


Displays your current position.

ENTER


**ENTER key**

- Executes a selected item.
- Displays pop up menu.


MENU

**MENU key**Displays menu.  
(  page 16)

ZOOM

**ZOOM key**Changes the map scale.  
(  page 29)

DIM

**DIM key**Switches the display to day mode or night mode. (  page 28)**Switching the Display Mode**

When the headlight switch is in the ● or ☰/☷ position, the display switches to night mode.


Press the DIM key to switch to day mode.

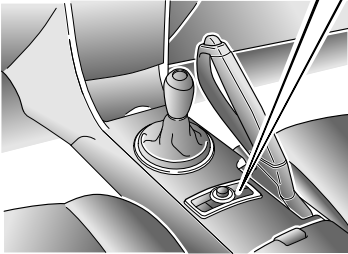
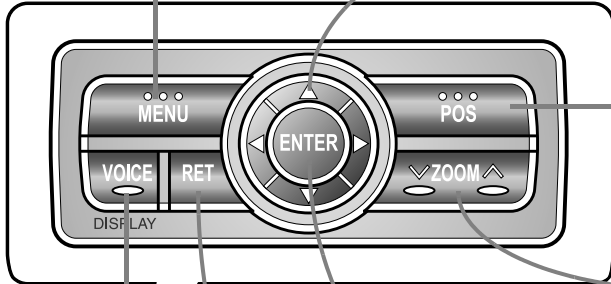
To return to night mode, press the DIM key again.

# Names and Functions

## Mazda RX-8


Before Use

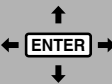
**MENU key**  
Displays menu.  
(  page 16)



**VOICE key**

- Initiates vocal guidance for route maneuvers.
- Adjusts screen quality.

(  page 28)




**Joystick**

- Selects items by tilting it up, down, right, and left.
- Scrolls map.




**POS (Position) key**

Displays your current position.



**ZOOM key**

Changes the map scale.  
(👉 page 29)



**ENTER key**

- Executes a selected item.
- Displays pop up menu.



**RET key**

Returns to the previous screen.

# Activation

Insert the map disc into the unit to start the Mobile Navigation System.



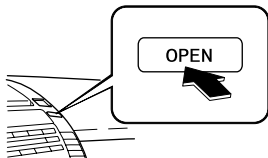
## ■ Map Disc

- Refer to “Handling and Care of Map Discs” to know how to handle a map disc (👉 page 58).

## Note

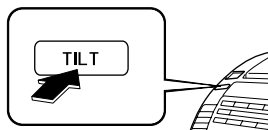
- The map disc cannot be inserted or ejected while the ignition switch is in the OFF position.
- Remember that the battery can run down if the ignition switch is kept in the ON or ACC position for a long time while the engine not running.

- 1 Turn the ignition switch to the ON position and press **OPEN** to open the display.



## Note

- This display angle can be adjusted by pressing **TILT**.



When the **TILT** is pressed, the display angle changes in stages.

- Press **OPEN** to close the display.

- 2 Insert the map disc with the printed side facing up.



## Note

- The main unit is located in the glove box compartment. (Mazda 3)
- The main unit is located in the Center Console (Rear). (Mazda RX-8)
- Condensation may form on the optical lens or the map disc inside the unit when the temperature in the vehicle increases in a short time such as when heating the car on a cold day. This condensation may cause malfunctions. If so, unload the map disc and do not operate the unit for approximately 1 hour. Wipe the condensation off the map disc with a soft cloth.

If the unit does not operate correctly after 1 hour, consult an Authorized Mazda Dealer.



(CAUTION) screen



### 3 Read CAUTION carefully, and select **Agree** and press **ENTER**.

**ENTER**



- The Current Position screen appears.

#### Note

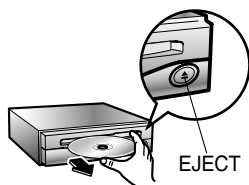
- You can select the language by select  and press **ENTER**. You can also change the selected language using Language Selection. (  page 22)
- The CAUTION screen remains on the display unless you select **Agree** and press **ENTER**.



Most functions are inhibited while the vehicle is in motion. Please read the handbook for operation instructions. Always obey traffic regulations.

## Removing the Map Disc

When the ignition switch is in the ACC position and press **▲ (EJECT)**.



Do not get your hand or fingers caught in moving parts or in the disc slot. This can cause injuries. Children are inquisitive, try to install or remove the map disc without infants looking on.


## Buttons on the screen


Select the buttons by using Joystick and press **ENTER**.  
Colors for unavailable buttons will be pale.


# Menu


Menu appears when pressing **MENU**.



Destination Entry and Route Search (  page 30)

Address Book (  page 46)

Cancel Guidance (  page 41)

Route Options (  page 42)

Volume (  page 50)

Set Clock (  page 17)



Navigation Set Up (  page 18)



# Set Clock

The current time is set using this function. Since time notification is provided by a GPS satellite.



## Open the [SET CLOCK] screen



Select **24H** if you prefer 24-hour display; **12H** for 12-hour display.

Select **+1 hour** to move the setting ahead by one hour, and similarly, select **-1 hour** to move it back by one hour.

How to exit **OK**.

### Note

Minutes and seconds are adjusted by the GPS, however, it is necessary to adjust hours under the following conditions:

- Driving across different time zones
- Daylight saving time start and end

# Navigation Set Up

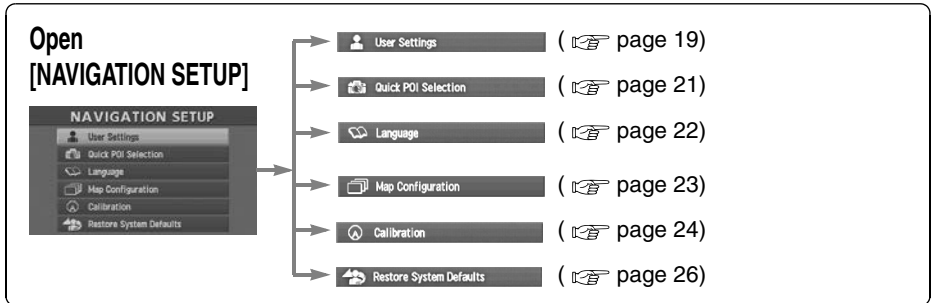
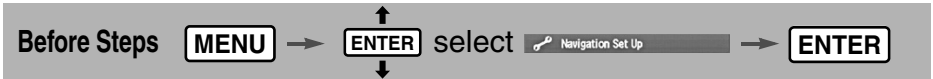
- You can alter the map display conditions, the route guidance conditions and show the system information.



## ■ Stop your vehicle before the following operations.

Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident.

Always stop the vehicle in a safe location and put the parking brake on before operating the system.



# Navigation Set Up

User Setting

Before Steps



Open the [USER SETTINGS] screen



## Map Color

Map Color 1 2 3

Select a screen color from 1 to 3 options.

## Map Mode

Map Mode Auto Day Night

- Auto : The display will automatically switch between Day and Night illumination mode when the headlights are turned off and on respectively.
- Day : The display will be presented in Day illumination mode regardless of whether the headlights are on or off.
- Night : The display will be presented in Night illumination mode regardless of whether the headlights are on or off.

## Distance

Distance km Miles

Select the distance unit from km or Miles.

## Average Speed

Average Speed Change speed

Set the average speed for each road to be driven. (This function sets the standard speed (average vehicle speed for each route) used for calculating the estimated arrival time when calculating the route time.)



◀ ▶ Average speed setting

Default : Changes back to default

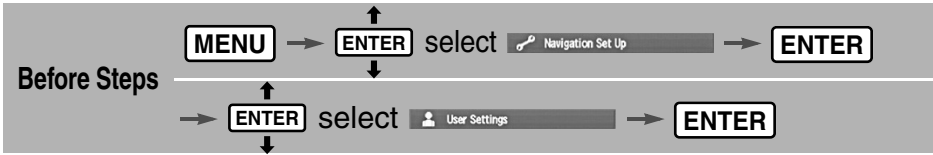
## Road Restriction Warnings

Road Restriction Warnings On Off

The display of warnings during route guidance when passing through areas with traffic restrictions can be turned on or off.

# Navigation Set Up

User Setting



## Open the [USER SETTINGS] screen



### ■ Arrival Time



The time which is displayed until reaching the destination or a way point can be set as an estimated arrival time or the remaining time.

Select to display the estimated arrival time, or to display the remaining time.

### ■ Keyboard Layout



The layout of input keys can be selected as or .

### ■ Clock



Allows selection of whether clock is to be displayed.

### ■ Beep

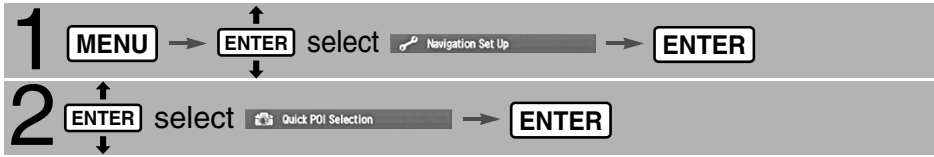


Allows selection of whether beep will sound.

# Navigation Set Up

## Quick POI Selection

This function allows you set the categories on the area displayed when the (Point of Interest) menu is selected on the map. Quick POI enables you store up to six different kinds of categories which you use most regularly.



Getting started

### Open the [QUICK POI SELECTION] screen



Select the button for Quick POI storage.

#### Note

- Select the category to be changed

**Default** : This button allows you to restore the factory settings.



Select a category.

Once selected, subcategories will be displayed.

**List All Categories** : Subcategories from all of the individual categories will be displayed together.



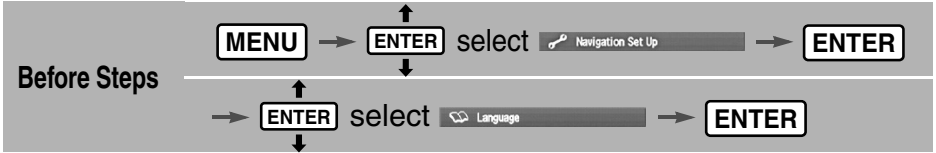
Select the subcategories to be displayed on the map.

Repeat the above steps to add further POI markers displayed on the menu.

# Navigation Set Up

Language

You can change the language of the menu and the voice guidance.



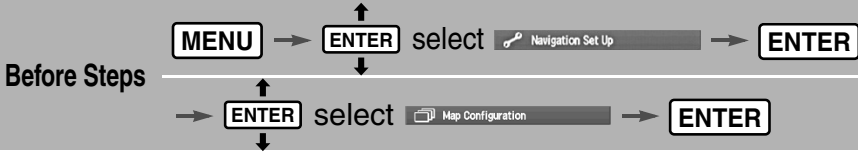
## Open the [LANGUAGE] screen



Select your preferred language from the list.

# Navigation Set Up

## Map Configuration



Open the [MAP CONFIGURATION] screen



### Map Screen

Select single or dual map display.

#### Single map



#### Dual map



### Turn Guidance



### Turn Arrow (on first screen)



While using route guidance, the directions for the next junction where you have to turn are shown as a Turn Arrow in the upper right.

### Turn List



While using route guidance, the directions for the next junction where you have to turn are shown as Turn List.

### Turn Arrow (on second screen)



While using route guidance, the directions for the next junction where you have to turn are shown as Turn Arrow.

### Note

Before a fork in the road, an enlarged diagram of the junction automatically appears in a second screen. This is to make route guidance even clearer.

### Junction Detail



Select whether the Enlarged Junction diagram screen is displayed automatically.

### Freeway Information



Allows selection of whether the guidance screen is to be displayed while driving on a freeway.

# Navigation Set Up

Calibration

This function allows you to correct any error in the position or direction of your vehicle display.




## Adjusting Current Position and Direction





Open the [Calibrate Position] screen



Move  to the correct position and select **ENTER**.



Use  or  to adjust the direction in which you are heading, and select **OK**.

## Distance

This function automatically corrects any error in the display of the current position that might occur after tire replacement.



You will have to drive about 6 miles (10 km) before distance correction is complete.

Getting started



ENTER

ENTER

select



Calibration

ENTER

## Map Version

The map and software version numbers can be confirmed using this function.



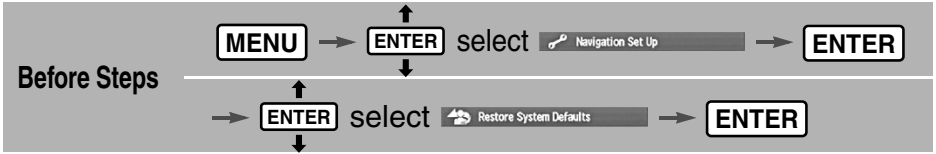
Map and software versions are now displayed.



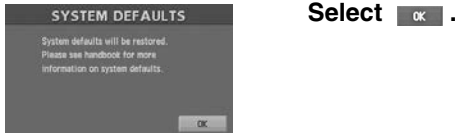
# Navigation Set Up

## Restore System Defaults

This function replaces all the settings in the mobile navigation system with the initial default settings.



### Open the [SYSTEM DEFAULTS] screen



Select **OK**.

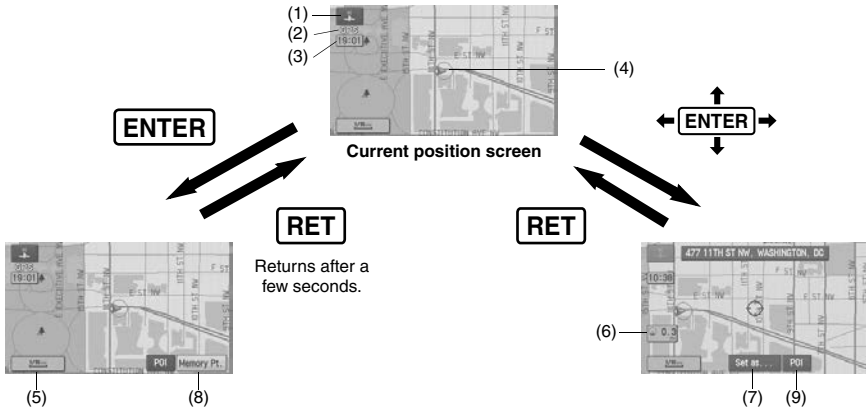
If you execute Restore System Defaults, all of your stored setting data will be deleted.

### [Default List]

Item	Initial condition
<b>Menu names</b>	
Map Orientation	North up
Map display mode	Single-screen display
Map Display scale/Map scale for Dual-screen is not object of backup.	Single-screen: 10,000 map (1/16 mi)
Display guidance language	English
Quick-POI map display	All Off
Quick-POI Selection	A : Gas station B : ATM C : Police Station D : Grocery store E : All Restaurant F : Hotel
Search Area	US9 (including Washington DC)
Map Color	1
Day/Night/Auto Setting	Auto
Distance Units (Miles/KM) (Global setting)	Miles
Volume Presets	4
Time display change (12h/24h)	24h
Keyboard layout	ABC
Arrival Time	Time
Navigation Setup (Clock)	Off
Navigation Setup (Beep)	On
<b>Map Configuration</b>	
Freeway Information	Off
Junction Detail	ON
Map screen	Single
Turn Guidance Screen	Turn List

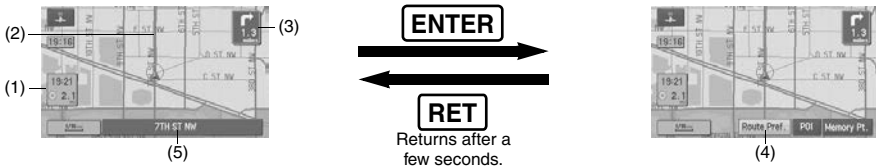
# Screen Names and Functions

## Screens Before Setting Route



- |  |  |
|--|--|
| <p>(1) <b>Map Orientation control</b><br/>(☞ page 29)</p> <p>(2) <b>GPS (Global Positioning System) marker</b><br/>(☞ page 52)</p> <p>(3) <b>Clock</b><br/>Clock will be displayed when you set up Clock on Navigation Set Up On.</p> <p>(4) <b>Vehicle marker</b><br/>Shows the current position and direction of your vehicle.</p> <p>(5) <b>Scale display</b><br/>Displays the scale of the map.</p> <p>(6) <b>Distance from current position</b><br/>Displays the distance from the current position to the position pointed by ☉.</p> | <p>(7) <b>Set Destination button</b><br/>The destination, memory point or way point will be set at the position pointed by ☉ in the scroll screen.</p> <p>(8) <b>Store Memory Point button</b><br/>Stores markers on the map.</p> <p>(9) <b>POI (Point of Interest) Display button</b><br/>(☞ page 38)</p> |
|--|--|

## Screens During Route Guidance



- |  |   |
|--|---|
| <p>(1) <b>Distance and Time to Destination display</b><br/>Displays the time* and distance to the destination or way point. Selecting this will display the next and further information on the way point or time and distance to the destination. (* Either required time or estimated time arrival)</p> <p>(2) <b>Route display</b><br/>Shows the provided route as a thick blue line.</p> | <p>(3) <b>Turn Arrow display</b><br/>Shows the direction to turn at the next junction and the distance to the junction.</p> <p>(4) <b>Route Preferences button</b><br/>(☞ page 42)</p> <p>(5) <b>Current Road Name</b><br/>Shows the name of the road you are currently driving on.</p> |
|--|---|

## Screen adjustments and settings

Display Menu screen will be shown when you press **VOICE** (DISP) and hold.

### Note

Display Menu screen will be disappeared when they have been unused during a few seconds.

### ■ Adjusting the screen quality

- Adjusts the screen brightness  
Select "ADJ", and then "BRIGHT". The screen will brighten when scrolling to the right, or darken when scrolling to the left.
- Adjusts the screen contrast  
Select "ADJ", and then "CONTRAST". The screen will lighten when scrolling to the right, or deepen when scrolling to the left.

### Note

- Adjust by scrolling the Joystick to the right and left.
- Restore the adjustment value to the default when selecting "RESET", press **ENTER**.

### ■ Clearing the screen

Select "DISP OFF", press **ENTER** and the screen will disappear.  
The screen will appear again when pressing any buttons.

### ■ Daytime screen/Night screen

When the headlights are on, daytime mode can also be selected (if a brighter screen is needed at night). This selection can only be done when the headlights are on. Press **ENTER** to switch between day and night modes.

- The screen can be returned to the daytime screen while the headlights or running lights are on using **DIM**. (Mazda 3 only)
- The screen can be returned to the daytime screen while the headlights or running lights are on by pressing the instrument cluster dimmer select button. (Mazda 3 Black-out meter only)
- The screen can be returned to the daytime screen while the headlights or running lights are on by rotating the dashboard illumination switch upward fully. You may hear a click sound and the illumination dimmer will be canceled. (Mazda RX-8)

# Screen change Changing the Map Orientation/Scale



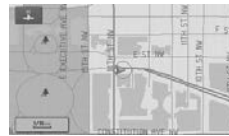
**■ Do not keep your eyes fixed on the monitor screen or operate the system while driving**

Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

## Map orientation

- 1 Press **ENTER**
- 2 Select , and press **ENTER**

● North Up: Geographic north is up.

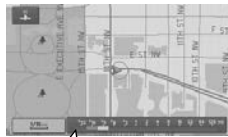


● Head Up: The direction you are heading is up.



## Map scale

- 1 **ZOOM**
  - The map can be displayed in 13 steps with scales from to .

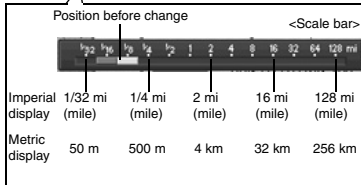


● ZOOM OUT:



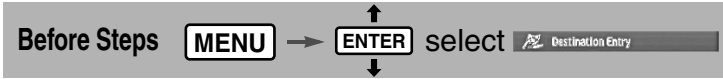
**ZOOM**

● ZOOM IN:  
(more detail.)



# Destination Entry and Route Search


- You can set the destination using various methods provided by the system.



Routing

**Change (Change Search Area)**


**Open the [DESTINATION ENTRY] Menu**




→ **Select** **Change**

**Address**


**Open the [DESTINATION ENTRY] Menu**




→ **Select** **Address**



→ **When narrowing down to city name**  
Select **City**



→ **When narrowing down to street name**  
Select **Street**



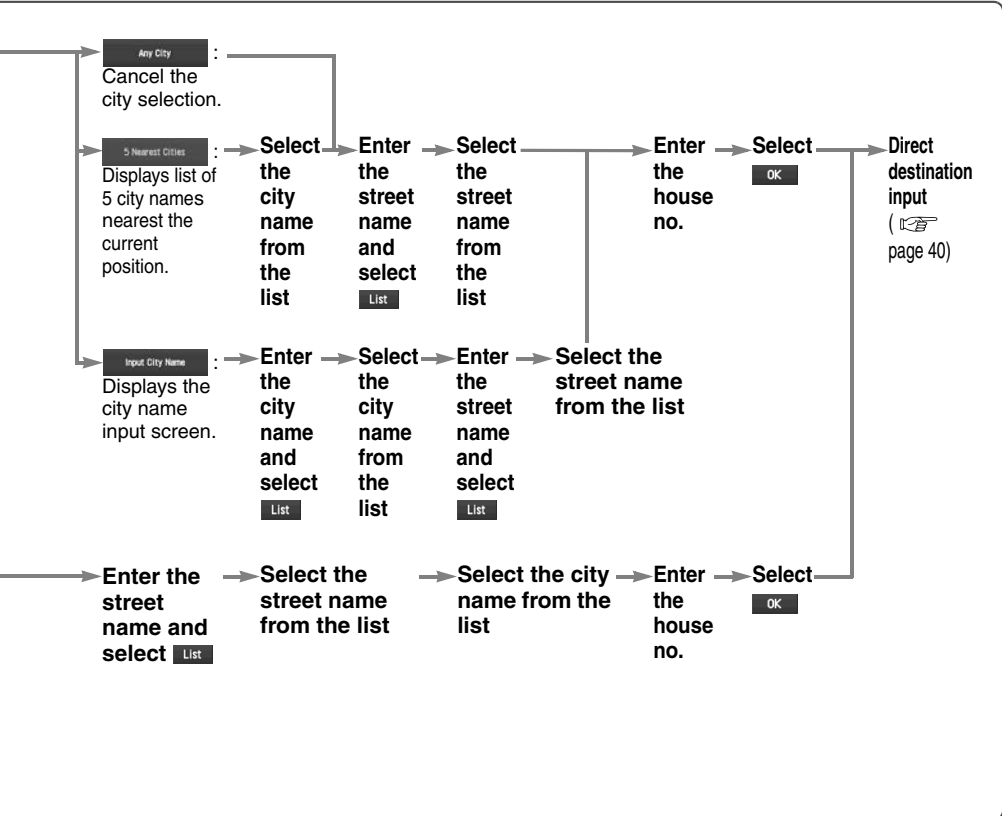


Warnings

- **Do not keep your eyes fixed on the monitor screen or operate the system while driving.** Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location before operating the system.
- Route searches with the navigation system can include roads that you cannot drive on and roads that you are prohibited from driving on due to traffic regulations. Please comply with the traffic regulations.

### Select the desired Search Area

- |                                  |                                      |              |
|----------------------------------|--------------------------------------|--------------|
| US1 : ID, OR, WA,                | US7 : AR, AL, LA, MS, TN             | → ENTER → OK |
| US2 : CA, NV                     | US8 : CT, MA, ME, NH, NJ, NY, RI, VT |              |
| US3 : AZ, CO, MT, NM, UT, WY     | US9 : DC, DE, MD, PA, VA, WV         |              |
| US4 : IA, KS, MN, MO, ND, NE, SD | US10 : FL, GA, NC, SC                |              |
| US5 : OK, TX                     | CAN : CANADA                         |              |
| US6 : IL, IN, KY, MI, OH, WI     |                                      |              |



● For Character Entry, please refer to page 39.

# Destination Entry and Route Search

Point of interest

Open the [DESTINATION ENTRY] Menu



Select



When entering the destination point directly  
Select

When narrowing down to city name  
Select

City

When narrowing down to category name  
Select

Category

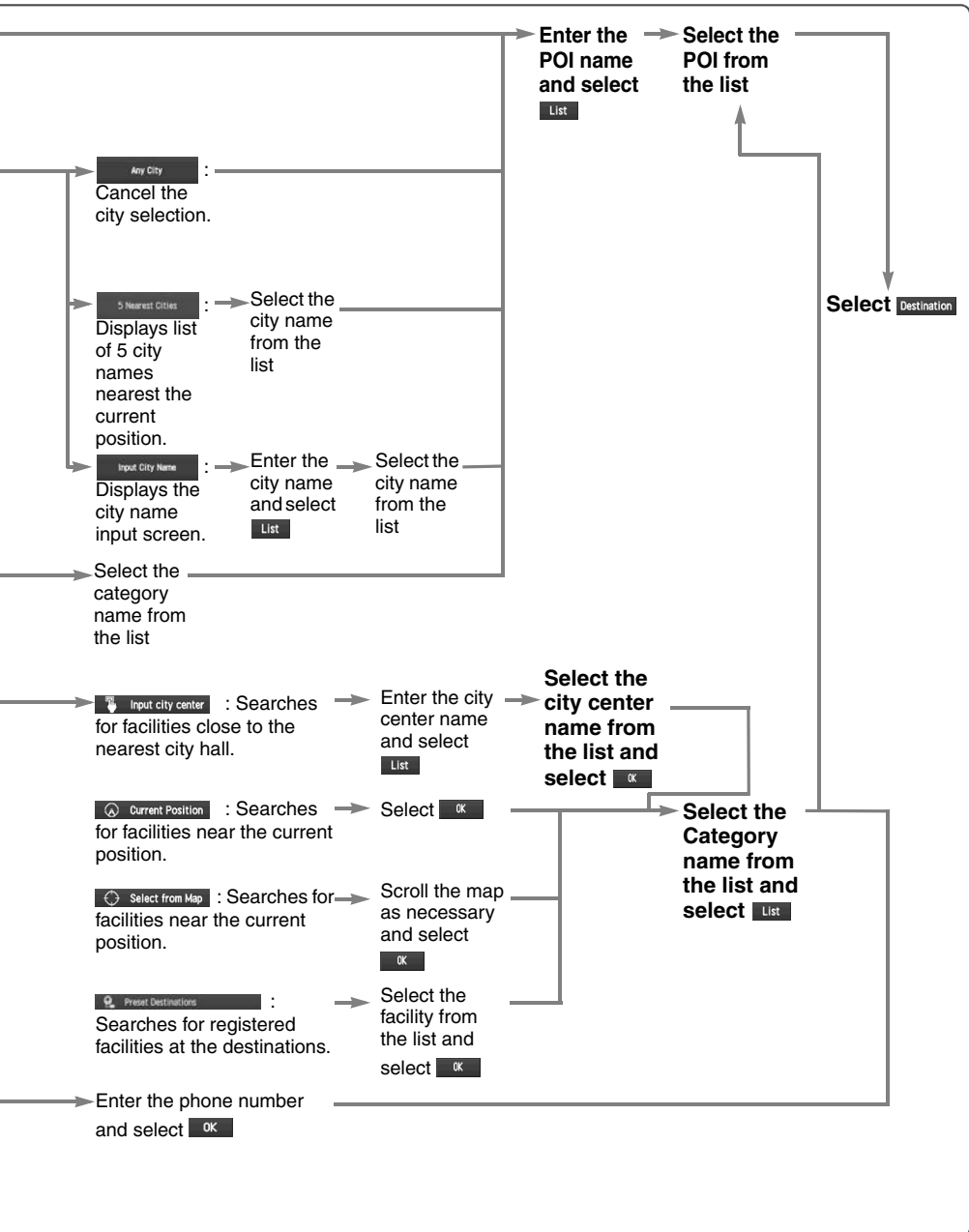
When narrowing down to the nearest facility  
Select

Nearest

When narrowing down to a phone number  
Select

Phone Number





● For Character Entry, please refer to page 39.

# Destination Entry and Route Search

## Emergency

## Routing

### Select

SOS: Emergency

**EMERGENCY**

Current: 1300 PENNSYLVANIA AVE NW  
Position: WASHINGTON, DC  
LAT: N38° 53' 43"    LONG: W77° 1' 46"

★ Nearby Police Station  
+ Nearby Hospital

### When stopped

★ Police Station  
Displays the police station select screen.

+ Hospital  
Displays the hospital select screen.

### When driving

★ Nearby Police Station  
Sets the destination to the nearest police station automatically.

+ Nearby Hospital  
Sets the destination to the nearest hospital automatically.

→ **Select the sort methods**

**Dist.** : Sorts the police station or the hospital by Distance.

**Name** : Sorts the police station or the hospital by name.

→ **Select the name from the list** → **Select**

**Destination**

# Destination Entry and Route Search



- Memory Point
- Home
- Preset Destination
- Previous Destination
- Intersection
- Freeway On/Off Ramp
- Coordinates
- Select from map

Open the [DESTINATION ENTRY] Menu



Select Memory Point



Select Home

Select Preset Destinations

Select Previous Destinations

Select Intersection

Select Freeway On Ramp / Off Ramp

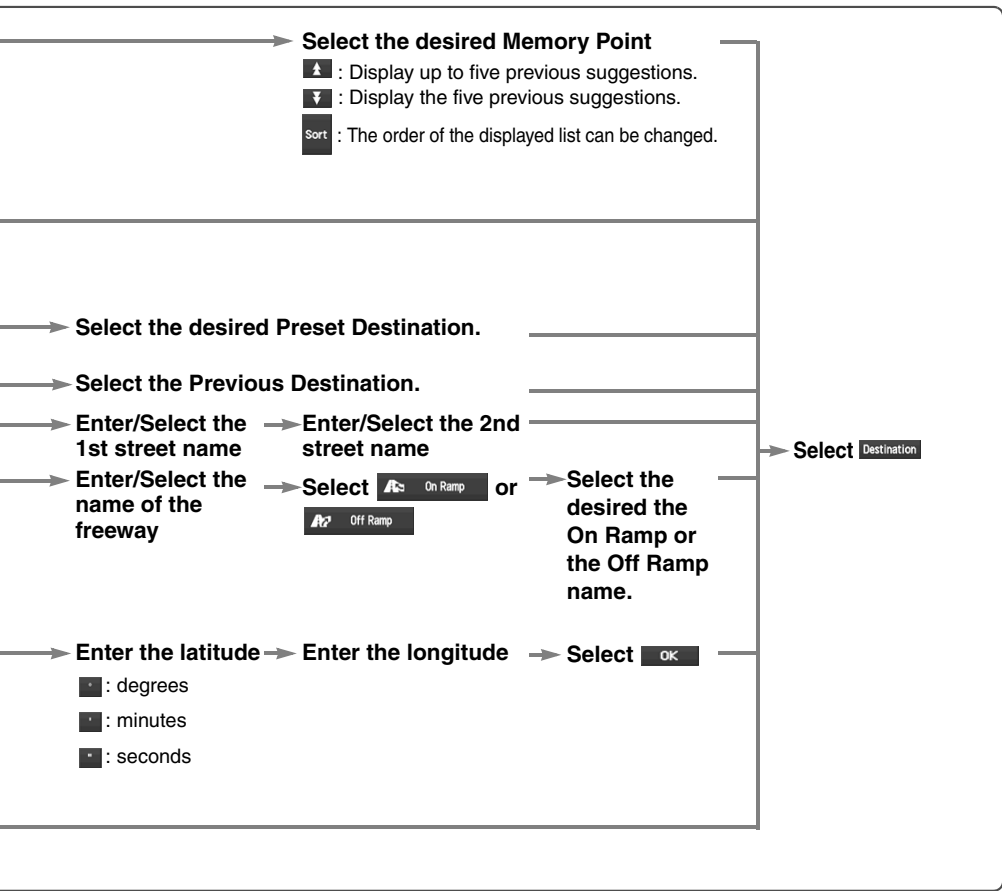


Select Coordinates



Select Select from Map

Routing



● For Character Entry, please refer to page 39.

# Quick POI

- You can select one of the Six Categories on the menu or List Categories and then select the POI(s) to be displayed on the map.

Before Steps

**ENTER** → ← **ENTER** → → Select **POI**

Displaying POI(s) on a Map

Local Search

Deleting POI Markers

Open the [QUICK POI]



Select the categories to be displayed up to a maximum of five.

→ **Show**

● POI icon chart (☞ page 41)  
For categories other than the six displayed, select **List Categories** and select them from the list shown.

→ **Search Selected POI**

→ **Select the POI you want to find from the listed categories.**

After you make a selection, the point of interest you selected appears on the map.

**Route**: Search POI along the route during the guidance and show the list.

→ **POI Off**

Before Steps

Displaying POI(s) on a Map (☞ above)

Showing POI Data

Display the POI.



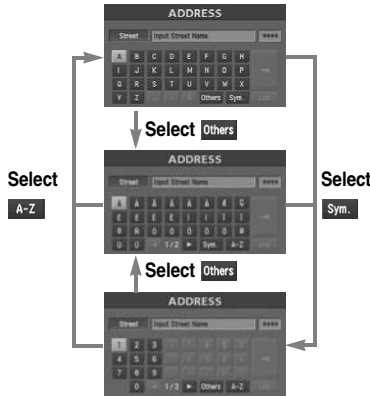
→ **Select the desired POI by moving ○ on top of the POI icon.**  
The name of the selected POI appears.  
If no data is stored for the selected POI, the POI name is not displayed.

→ **Select **Info** (Information)**  
The POI(s) data is displayed.

# Character Entry

Select the first several characters on the screen. (Step 1)

Select your target in the list.



Names of which spelling starts with the entered character appear.  
 ● If a desired name is not in the list, go back to Step 1, and try fewer characters.

- : Move the cursor to the previous position and delete a character.
- : The list appears.

- : Display up to five previous suggestions.
- : Display the previous suggestions.
- : Text flow (Right)
- : Text flow (Left)
- : The order of the displayed list can be changed. (Displayed list varies or may not be displayed depending on what was input.)
- : Additional text can be input. (Use when inputting additional characters after the list is displayed.)

To enter the street name, city name, and other.

● Examples

Street: CANAL

Enter by selecting characters:

Street: MAIN STREET

Enter by selecting characters:

Street: 52nd Ave.

Enter by selecting characters:

To enter the house phone number, and other.

Select the characters on the screen.

Select

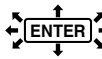


- : Move the cursor to the previous position and delete a character.

# Direct Destination Input

## Direct Destination Input

1

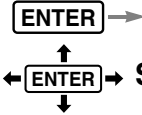


**Position the cursor on your destination on the map**

Scroll the map and change the map scale if necessary.



2



**Select**

Set as...



3

**Select** **Destination**.

Route calculation will be carried out and the entire route will be displayed on the map.

Select **Way Point** (Way point) to set the address as a way point on your route ( page 46). You can set up to 5 way-points per trip.

4

**Select** **Guide**.

Route guidance begins using displayed route.

**Note**

- If your desired route cannot be found, **Route Opt.** (Route Options) allows the route option settings to be changed. ( page 42)
- Selecting **Guide** for five seconds or more will launch the Demo mode.

Operate after Step 3 of [Direct Destination Input]

## Selecting Route

4

The calculation route can be selected from one of three types namely, Quick (the fastest route), Altern. (the standard route), or Short (the shortest route).

5

**Select** **Info.** (Information).

Details regarding the individual routes (i.e., required time total distance, roads used, etc.)

**Select either** **Quick**, **Altern.**, or **Short**, and then select **Guide** when you have decided on the route to be used.

INFO FOR 3 ROUTES			
	Quick	Altern.	Short
	0h 27m	0h 35m	0h 33m
	20 miles	29 miles	20 miles
	0.0 miles	0.0 miles	0.0 miles
	8.3 miles	19 miles	0.0 miles
	0.0 miles	0.0 miles	0.0 miles
	0.0 miles	0.0 miles	0.0 miles



# POI Icons on Maps / Delete Destination

## POI (Point of Interest) Icons

The following are POI icons shown on maps.

<div style="background-color: #333; color: white; padding: 2px; margin-bottom: 5px;"><b>Restaurant</b></div> <ul style="list-style-type: none"> <li> All restaurants</li> <li> American</li> <li> Chinese</li> <li> Continental</li> <li> Fast Food</li> <li> French</li> <li> Italian</li> <li> Japanese</li> <li> Mexican</li> <li> Seafood</li> <li> Thai</li> <li> Other Restaurants</li> </ul> <div style="background-color: #333; color: white; padding: 2px; margin-bottom: 5px;"><b>Shopping</b></div> <ul style="list-style-type: none"> <li> Grocery Store</li> <li> Shopping Mall</li> </ul> <div style="background-color: #333; color: white; padding: 2px; margin-bottom: 5px;"><b>Automotive</b></div> <ul style="list-style-type: none"> <li> Automobile Club</li> <li> Gas Station</li> <li> Parking</li> <li> Auto Service &amp; Maintenance</li> </ul>	<div style="background-color: #333; color: white; padding: 2px; margin-bottom: 5px;"><b>Travel</b></div> <ul style="list-style-type: none"> <li> Bus Station</li> <li> Ferry Terminal</li> <li> Hotel</li> <li> Rental Car Agency</li> <li> Rest Area</li> <li> Train Station</li> <li> Airport (All Search Areas)</li> </ul> <div style="background-color: #333; color: white; padding: 2px; margin-bottom: 5px;"><b>Recreation</b></div> <ul style="list-style-type: none"> <li> Casino</li> <li> Golf Course</li> <li> Historical Monument</li> <li> Marina</li> <li> Museum</li> <li> Ski Resort</li> <li> Sports Complex</li> <li> Performing Arts</li> <li> Tourist Attraction (All Search Areas)</li> <li> Tourist Information</li> <li> Winery</li> <li> Amusement Park (All Search Areas)</li> </ul>	<div style="background-color: #333; color: white; padding: 2px; margin-bottom: 5px;"><b>Community</b></div> <ul style="list-style-type: none"> <li> Convention Center</li> <li> Court House</li> <li> Government Offices</li> <li> Higher Education</li> <li> Hospital</li> <li> Library</li> <li> Park &amp; Recreation (All Search Areas)</li> <li> Police Station</li> <li> School</li> <li> City Center</li> </ul> <div style="background-color: #333; color: white; padding: 2px; margin-bottom: 5px;"><b>Banking</b></div> <ul style="list-style-type: none"> <li> Bank</li> <li> ATM</li> </ul> <div style="background-color: #333; color: white; padding: 2px; margin-bottom: 5px;"><b>Other</b></div> <ul style="list-style-type: none"> <li> Business Facility</li> </ul>
--	---	---

Delete destination

MENU

→

ENTER

↑

Select

↔

Cancel Guidance

→

ENTER

↕

Select

→

Yes

→

ENTER

# Route Options

- During route guidance you can change the route options, stop or check the route.

Before Steps

MENU

ENTER

select

Route Options

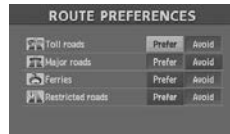
Route Preferences

Open the [ROUTE OPTIONS] Menu



Select

Route Preferences



Select

Destination & Way Points



Select the button for the location to be modified.

Select the way points to change the order. Change the destination and the passing order of the destination and way points.

Select the button corresponding to the destination or way point to be deleted.

Modification of Destination or Way Point Positions

Deletion of Destination or Way Points

Detour

Select

Detour



Select

Turn List



The Enter Route screen appears.

Turn List

Routing



■ **Do not keep your eyes fixed on the monitor screen or operate the system while driving**  
 Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

Select **Prefer** or **Avoid** for toll roads, major roads, and ferry and restricted roads.

The route will not necessarily follow the specified conditions.

Select **Chg Loc.** → Move **○** to location and then press **ENTER**.  
**(Change Location).**

Shows the map for the destination/way points.

**ENTER**

**POS**

**Guide**

Press **▲** **▼** to change the order.

**POS**

**Guide**

Select **Delete**

**Yes** :

**No** :Cancel the deletion

**POS**

**1mile** **3miles** **5miles** :

**Whole Route**

**Guide**

Searches the detour routes at one, three, and five miles from the present position to the selected routes. (Display range varies according to the set distance of the selected route.) Whole Route searches the route that detours from the present position for all routes.

Select **Avoid** from the roads to be avoided.

**Yes** :

**No** :Cancel the setting

**POS**

**Guide**

# Route Options

Before Steps

**MENU** →

↑  
**ENTER**  
↓

select  Route Options

Display  
Preview

Open the  
[ROUTE  
OPTIONS] Menu



Select  Display Route










**ENTER**

Select  Route Preview



Route  
Preview

Use the buttons displayed on-screen to carry out a simulation run.

-  : Move the start point.
-  : Carry out a simulation run in the direction of the start point. When the Simulation starts the button will be displayed as  , and when selected, it will cause the Simulation to advance quickly.
-  : Stop the simulation run.
-  : Carry out a simulation run in the direction of the destination. When the Simulation starts the button will be displayed as  , and when selected, it will cause the Simulation to advance quickly.
-  : Move to the destination.
- Edit** : Displays the [EDIT ROUTE PREVIEW] screen.



- To next Dest. or WP** : Stops at the destination or the next way-point.
- To next POI** : Stops at a point of interest which has been setup on the route.
- Delete** : Delete the POI which has been selected.

POIs: Display the six POIs from Quick-POI storage. When one of these is selected, it will be displayed on the map; furthermore, **Others** can be selected to display items other than shown here. For more details, refer to page 21.

**RET**

# Address Book

● You can edit, or delete any marked point.

Before Steps

**MENU**



**ENTER**

select

Address Book



Memory Point Storage

Open the  
[ADDRESS BOOK]

ADDRESS BOOK

Memory Points/Home  
 Avoid Area  
 Previous Destinations

Select

Memory Points/Home

Memory Point Confirmation and Modification

Preset Destinations or Home storage

Memory Point Deletion

All Memory Point Deletion

Displays Icons at Memory Points

Add

List

Delete

Delete All

Show all icon

On or Off

Address Book

Set a memory point using your preferred method.

Select a memory point to be modified

- Icon** : Allows the display icon to be selected. Page 1 and 2 contain standard icons, whereas the With Sound page contains icons which also playback sounds. (With direction icon function) The beep alert only activates when the vehicle approaches to within about 500m of the memory point from the set direction.
- Name** : Allows the name to be changed. When editing has been completed, select **OK** . Furthermore, select **On** to display names on the map, or **Off** if these names are not to be displayed.
- Position** : Allows memory points to be checked and modified on the map screen. After checking. → **ENTER**
- Tel.** : Allows the telephone number to be modified. When editing has been completed, select **OK** .

Select a memory point to be stored in Preset Destinations or Home.

- Category** : → **Preset Destinations** :Changes the category to Preset Destinations
  - **Home** :Changes the category to Home
- Allows the storage category to be changed. Select the button corresponding to the new category.

Select a memory point to be deleted.

- Yes**
- No** : Cancel the deletion.

**Yes**

**No** : Cancel the deletion.

# Address Book

Before Steps

MENU →

↑  
ENTER  
↓

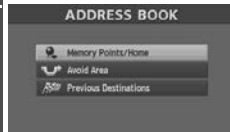
select

Address Book

Avoid Area Storage

Open the  
[ADDRESS  
BOOK]

Avoid Area Confirmation and Modification



Select

Avoid Area

Avoid Area Deletion

All Avoid Area Deletion

Category Name Modification

Previous Destination Deletion

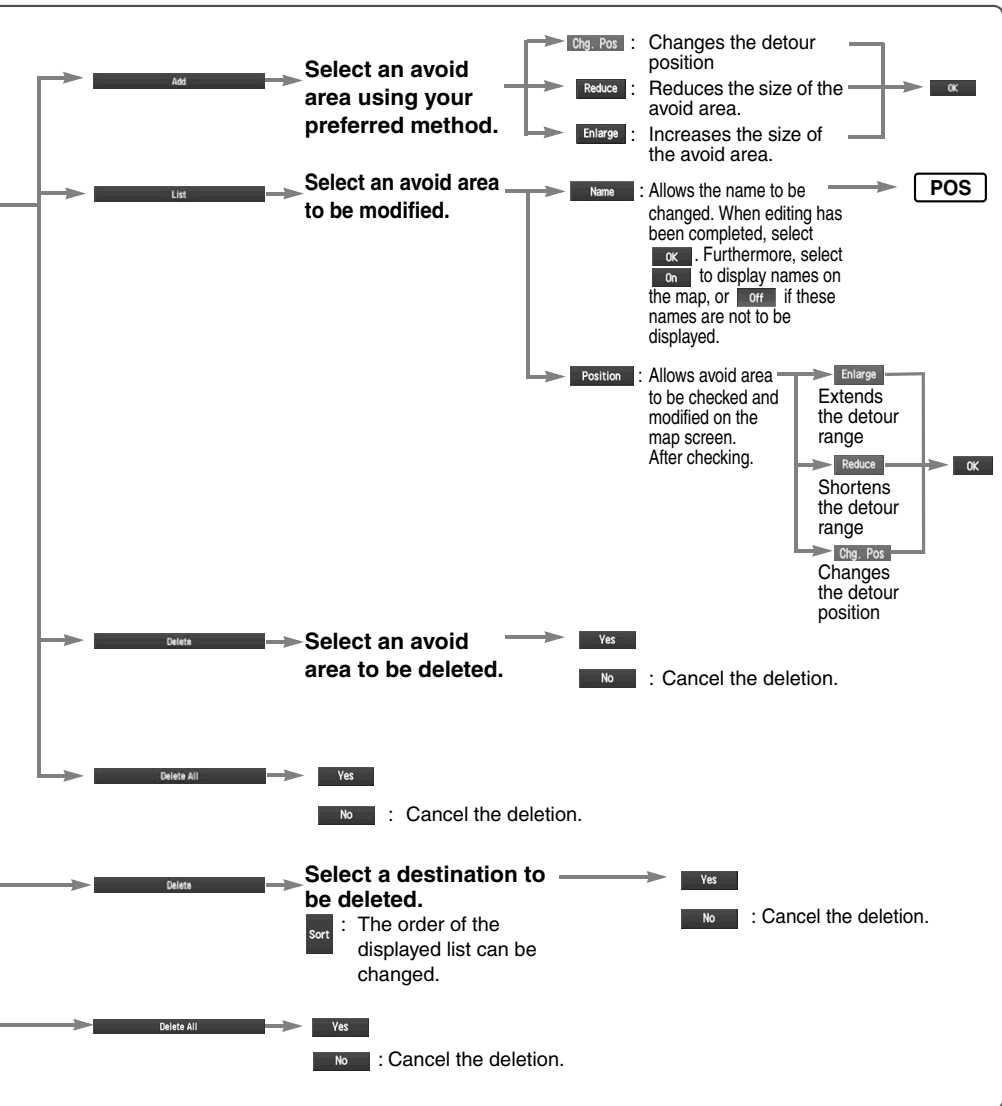
All Preset Destination Deletion

Select

Previous Destinations

Address Book





# Volume Adjustment

You can adjust the volume control for the voice guidance.

Before Steps

**MENU** →



select



**ENTER**

## Open the [VOLUME] screen



**1** Select the appropriate button to set the volume between **1** (minimum) and **7** (maximum).

**Off** : Sound output will be muted.

**2** Press the **POS** button to return to the current vehicle position screen.

# Precautions/System Performance

## Voice Guidance

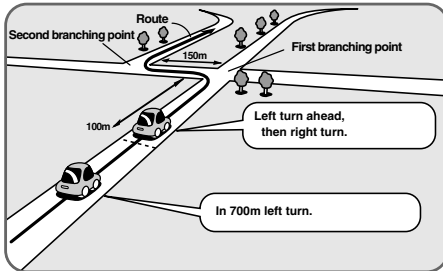


- The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable at times to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting an urgent destination such as a hospital or a police station.
- Your route may sometimes include roads that are not open to vehicles or are closed due to traffic regulations. Please comply with the local traffic regulations.
- Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle in a safe location and use the parking brake before operating the system.

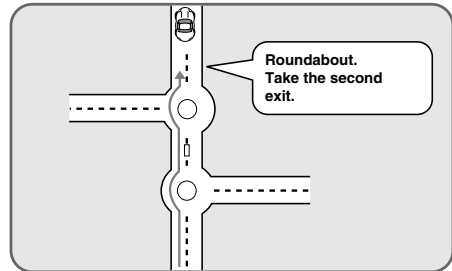
Voice guidance has the following functions:

### ■ Intersection guidance

- The system voice announces the distance to an upcoming turn and the turning direction.
  - This guidance function is automatic. Therefore, you do not have to set it, and it cannot be disabled.
- The system vocally announces the distance to an upcoming highway branching point or junction.

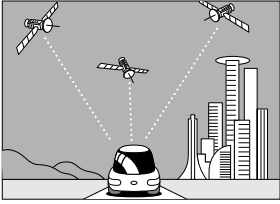


When two intersections are close together, the voice guidance may be late.



When two roundabouts are close together, the voice guidance for the second may be late.

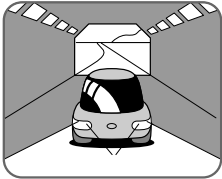
## GPS



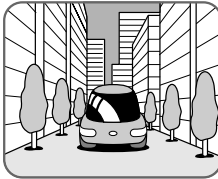
GPS is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Department of Defense. The Mobile Navigation System uses input from three or more satellites and calculates the vehicle position based on the principle of triangulation. The positioning accuracy of the system corresponds to the error display of the GPS which is from about 30 to 200 meters.

- If you are using the system for the first time, or if you have not used it for some time, it takes about 5 minutes (or about 2 minutes in open areas) to calculate your vehicle's position.

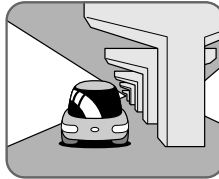
### ■ GPS signal reception is poor in the following places



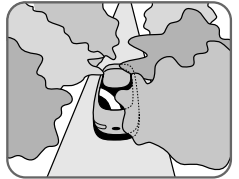
In tunnels



Among high-rise buildings



Under elevated roads



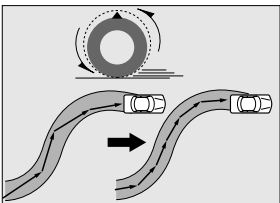
In wooded areas

- The GPS satellites are controlled by the U.S. Defense Department, which may intentionally lower positioning accuracy. In such cases, there may be vehicle position deviations.
- There may be vehicle position deviations for some time until GPS signals are received after turning on the ignition.

## Map Matching

This function compares your vehicle's tracking data with the road data on the map disc, applies dead reckoning to determine the road you are driving on, and displays your vehicle on that road on the map.

- Intelligent map matching addresses the following problems to achieve high accuracy in vehicle positioning.



### Position Correction for Elevated Roads

Position accuracy is improved by detecting if the vehicle is running on or under an elevated road.

### Position Correction for Parking Garages

Position accuracy is improved by detecting if the vehicle is driving in an elevated or underground parking garage.

### High-precision Gyrosensor

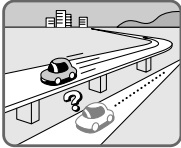
A gyro detects turns with an accuracy of  $0.05^\circ$  per second. Combined with a speed sensor, it enables the system to display the current vehicle position even where GPS signals may be blocked.

- Using a spare tire in place of the regular one may cause vehicle position deviations.
- Any difference between the direction which your vehicle actually travels and that shown on the map is automatically eliminated by azimuth correction.

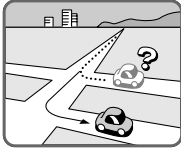
# Precautions/System Performance

## Positioning Accuracy

In the following situations, your vehicle position may not be displayed correctly on the map. But, as you keep driving, your vehicle position will be automatically corrected utilizing map matching and GPS data.



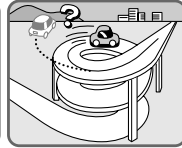
Running on an elevated road



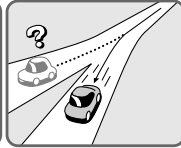
Making a turn after driving on a long straight road



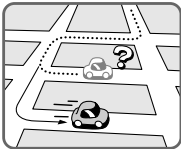
Running on a steep mountain road



Running on a spiral road



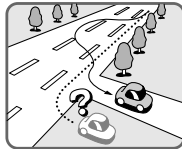
Entering an intersection where a road branches off at a small angle



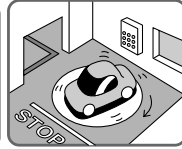
Running on gridiron layout of roads



Running on a slippery road with tire chains



Snaking on a wide road



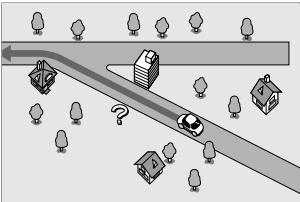
When your vehicle is on a turntable with the ignition turned off



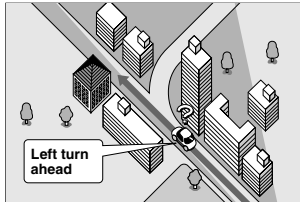
After getting off a ferryboat or vehicle train

## Route Guide

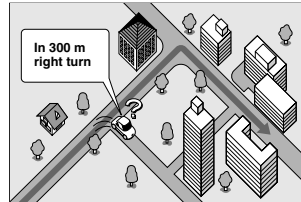
Although you may encounter the following problems in route guide, there is nothing wrong with the system.



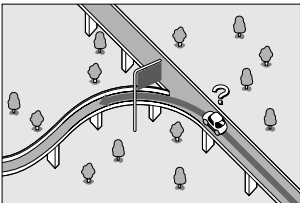
For certain intersection shapes, the upcoming turn or the name of the intersection may not be announced.



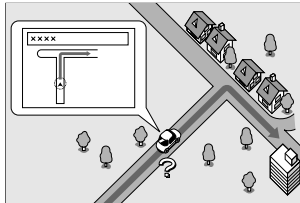
For certain intersection shapes, you may be prompted to turn right or left when you should actually stay on the same road.



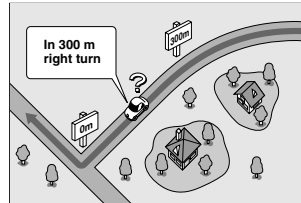
Voice guidance for the planned route may continue even after you have deviated from that route such as having turned too early.



Some points where the road divides on highways or toll roads may not be displayed or announced.



The Intersection Zoom Map may not always agree with the actual shape of the intersection.



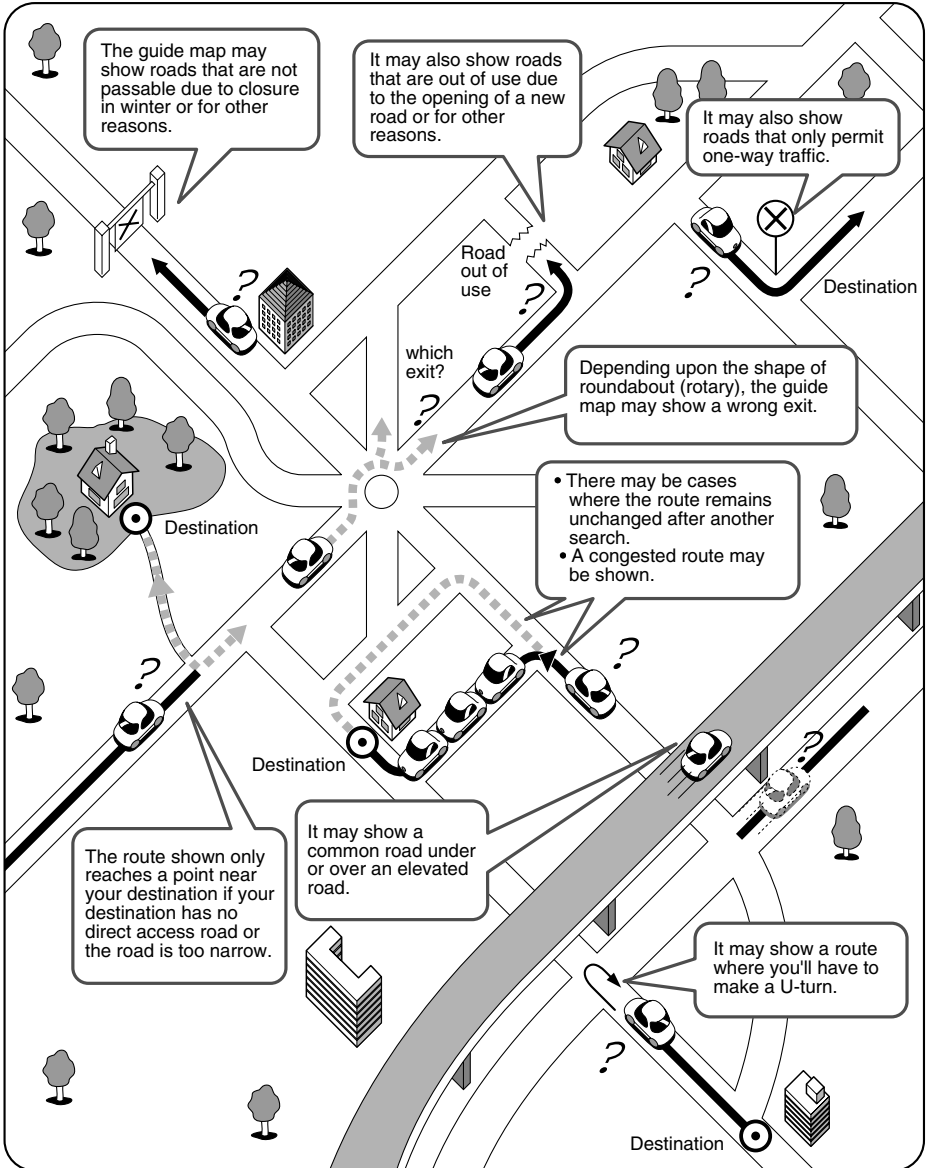
The announced distance to an upcoming turn may differ slightly from reality.



The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting an urgent destination such as a hospital or a police station.

## Route Search

Although you may encounter the following problems in a route search, there is nothing wrong with the system.



# Troubleshooting

## Verification First

### Note

There may be some problems due to operational errors or mistakes. Please read this manual again and verify that there really is a problem before calling an Expert Dealer, we recommend an Authorized Mazda Dealer to ask for repair services.

Symptom	Check point
<b>No picture</b>	<ul style="list-style-type: none"><li>● Check if a fuse has blown.<ul style="list-style-type: none"><li>➔ Consult an Expert Dealer, we recommend an Authorized Mazda Dealer.</li></ul></li><li>● Check if the voltage level of the vehicle battery is low.<ul style="list-style-type: none"><li>➔ Recharge the battery or change batteries.</li></ul></li></ul>
<b>Display does not open or close</b>	
<b>The vehicle position is not correct</b>	<ul style="list-style-type: none"><li>● Check if the vehicle position changed when ACC was set to OFF. When, for example,<ul style="list-style-type: none"><li>• The vehicle was transported by a ferry boat.</li><li>• The vehicle was rotated on a turn table in a parking lot.</li><li>• The vehicle was transported by a tow track or other such vehicle.<ul style="list-style-type: none"><li>➔ Drive the vehicle for a while where you are receiving GPS signals.</li></ul></li></ul></li></ul>

If necessary

## Symptom

**No GPS symbols are displayed**

## Check point

● GPS signals may not be received because of obstructions. After moving the vehicle away from obstructions, the GPS signals can be received.


**The vehicle position is not displayed**

● Check if the mode is set to the current position screen.  
→ Press **POS**

**No voice guidance**

● Check if the volume control for the voice guidance has been turned off.  
● Check if the vehicle is off the route.  
→ Repeat the route search while checking the route guide screen.  
● Check if you are driving the vehicle in the wrong direction on the route.  
→ Repeat the route search checking the direction of the destination.

**Buttons on the remote control do not beep**

● Check if [Beep] is set to [Off] (  page 20).



# Troubleshooting

## Error Messages

Error message	Solution
<b>Please insert a MAP DVD.</b>	<ul style="list-style-type: none"><li>● The disc is not installed.<ul style="list-style-type: none"><li>➔ Check if the disk is installed. If installed, check if the installed disk is correct.</li></ul></li></ul>
<b>MAP DVD-Read Error</b>	<ul style="list-style-type: none"><li>● The disc is wet, dirty, scratched, or upside down, or the disc cannot be played with this unit or the incorrect disk is installed.<ul style="list-style-type: none"><li>➔ Eject the disc and check it.</li></ul></li></ul>
<b>The disc installed is not a MAP DVD.</b>	

# Maintenance

## Care of the Product

### ■ Cleaning this product

Use a dry, soft cloth to wipe it.

### ■ Cautions for cleaning

Never use solvents such as benzene and thinners, they could mar the surface of the unit.

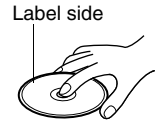
### ■ Map disc

If you require the latest map disc, consult an Expert Dealer, we recommend an Authorized Mazda Dealer.

## Handling and Care of Map Discs

### ■ How to hold the disc

- Do not touch the underside of the disc.
- Do not scratch the disc.
- Do not bend the disc.
- When not in use, keep the disc in the case.



### ■ Disc Cleaning

- Use a dry, soft cloth to wipe from the center outward.



<Right>



<Wrong>

### ■ Do not leave discs in the following places:

- Direct sunlight
- Near car heaters
- In dirty, dusty and damp areas
- On seats and dashboards