

NAVIGATION SYSTEM

Contents, Accessories, and Laser

Accessories

Please contact an Authorized Mazda Dealer if you are missing any of the following accessories.



● 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.

Preparation

Immediate

use

Advanced

use

If

necessary

Product

| | | |
|--|-----------|-------------------|
| Accessories | 2 | Before Use |
| Laser Product | 2 | |
| Contents | 3 | |
| Safety Information..... | 4 | |
| Introduction..... | 6 | |
| Names and Functions..... | 8 | |
| Activation | 10 | Getting started |
| Screen names and functions | 12 | |
| Screen change | 14 | |
| ● Changing the Map Orientation/Scale | 15 | |
| Destination Entry and Route Search | 16 | Routing |
| ● Change (Change Search Area) | | |
| ● Point of interest | | |
| ● Memory Point | | |
| ● Preset Destination | | |
| ● Intersection | | |
| ● Phone number | | |
| ● Select from map | | |
| ● Address | | |
| ● Emergency | | |
| ● Home | | |
| ● Previous Destination | | |
| ● Freeway On/Off Ramp | | |
| ● Coordinates | | |
| Use POI | 22 | |
| Character Entry | 23 | |
| Direct Destination Input..... | 24 | |
| POI Icons on Maps / Delete Destination..... | 25 | |
| Route Options | 26 | |
| Address Book | 32 | Address Book |
| Navigation Set Up..... | 38 | Navigation Set Up |
| Precautions/System Performance | 46 | As necessary |
| ● Voice Guidance | | |
| ● Map Matching | | |
| ● Route Guide | | |
| Troubleshooting | 52 | |
| ● Verification First | | |
| ● GPS | | |
| ● Positioning Accuracy | | |
| ● Route Search | | |
| Maintenance | 53 | ● Error Messages |

Safety Information

- Read this owner's manual for your Navigation System carefully before using the system. They contain 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

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.



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 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 repairer, we recommend an Authorized Mazda Repairer. 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 repairer, we recommend an Authorized Mazda Repairer.



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 use for exclusively 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 Expert repairer, we recommend an Authorized Mazda Dealer.

Navigation System


This navigation system utilizes GPS* satellite signals, 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.


Names and Functions


 **Joystick**

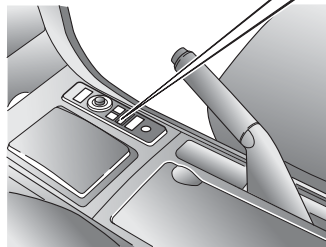
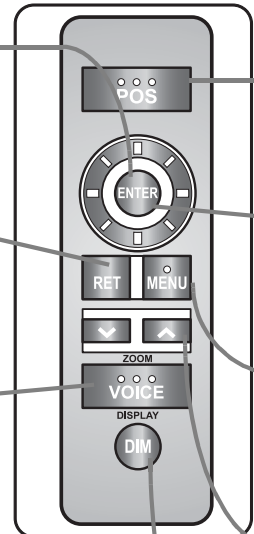
- Selects items by tilting it up, down, right, and left.
- Scrolls map.

 **RET key**

Returns to the previous screen.

 **VOICE key**

- Initiates vocal guidance for route maneuvers.
- Adjusts screen quality. ( page 13)



POS

POS (Position) key


Displays your current position.

ENTER


ENTER key

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


MENU


MENU keyDisplays menu.
( page 13)

ZOOM

ZOOM keyChanges the map scale.
( page 15)

DIM

DIM keySwitches the display to day mode or night mode. ( page 15)**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.

Activation

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



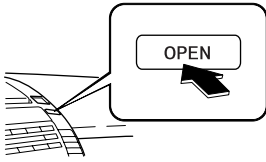
■ Map Disc

- Refer to “Handling and Care of Map Discs” to know how to handle a map disc (👉 page 53).

Note

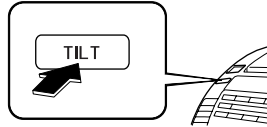
- The map disc cannot be inserted or ejected while the ignition switch is in the OFF position.
- Remember that the battery can run down if the ignition switch is kept in the ON or ACC position for a long time while the engine not running.

- 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.
 - 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.

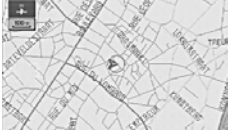


[CAUTION] screen

3 Read CAUTION carefully, and select



Agree and press

ENTER.



- The Current Position screen appears.

Note

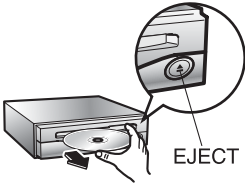
- You can select the language by select  and press **ENTER**. You can also change the selected language using Language Selection. ( page 45)
- The CAUTION screen remains on the display unless you select **Agree** and press **ENTER**.



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.

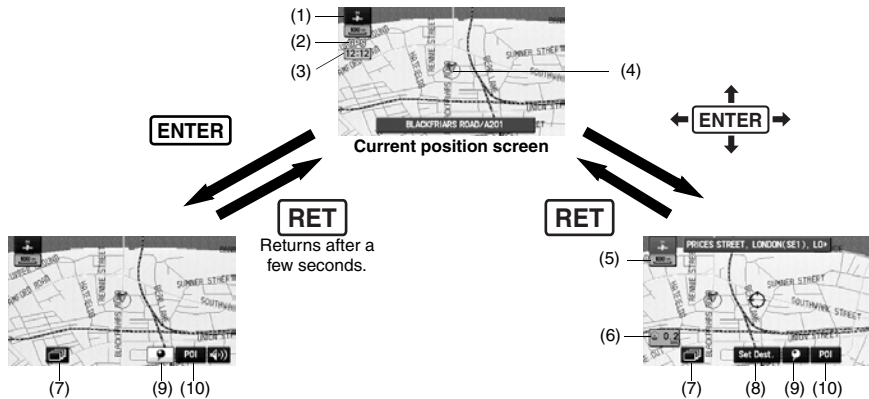
Buttons on the screen

Select the buttons by using Joystick and press **ENTER**.

Colors for unavailable buttons will be pale.

Screen names and functions

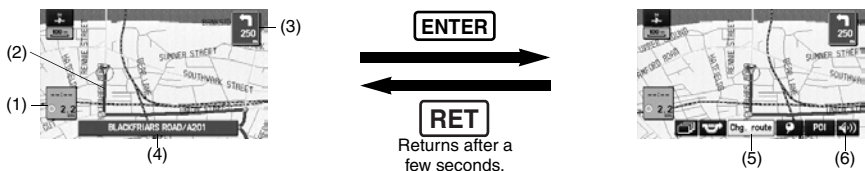
Screens Before Setting Route



Getting started

- (1) **Map Orientation control**
(☞ page 15)
- (2) **GPS (Global Positioning System) marker**
(☞ page 47)
- (3) **Clock**
Clock will be displayed when you set up Clock on Navigation Set Up On.
- (4) **Vehicle marker**
Shows the current position and direction of your vehicle.
- (5) **Scale display**
Displays the scale of the map.
- (6) **Distance from current position**
Displays the distance from the current position to the position pointed by ○.
- (7) **Screen Configuration**
(☞ page 14)
- (8) **Set Destination button**
The destination or way point will be set at the position pointed by ○ in the scroll screen.
- (9) **Store Memory Point button**
Stores markers on the map.
- (10) **POI (Point of Interest) Display button**
(☞ page 22)

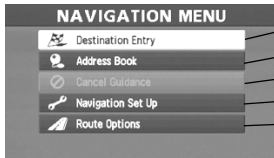
Screens During Route Guidance





- (1) **Distance and Time to Destination display**
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)
- (2) **Route display**
Shows the provided route as a thick blue line.
- (3) **Turn Arrow display**
Shows the direction to turn at the next junction and the distance to the junction.
- (4) **Current Road Name**
Shows the name of the road you are currently driving on.
- (5) **Change Route button**
Displays the Route Option menu so that settings for route calculation can be changed.
- (6) **Volume button**
Displays the volume adjustment screen.


Menu

Menu appears when pressing **MENU**.




Destination Entry and Route Search ( page 16)

Address Book ( page 32)

Cancel Guidance ( page 25)

Navigation Set Up ( page 38)

Route Options ( page 26)

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.", press **ENTER**, and then select "BRIGHT", press **ENTER** and the screen will be brighter when scrolling it to the right, or darker when scrolling it to the left.

- Adjusts the screen contrast

Select "ADJ.", press **ENTER**, and then select "CONTRAST", press **ENTER** and the screen will be lighter when scrolling it to the right, or deeper when scrolling it 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 extra screen certain nighttime conditions). This selection can only be done when the headlights are on. Press **ENTER** to switch between day and night modes.

- Alternatively, you can carry out the same operation by using **DIM**.

Screen change

Current position map

Shows the current position of your vehicle on the scale selected.

Route and flags

When the route has been set, the blue line represents the route and the following two flags appear on the map.

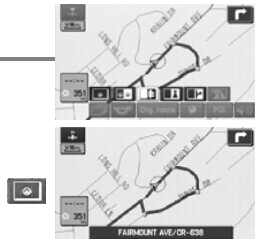
⊙: Destination point



Press **ENTER** and Select

Map configuration

Single map



One-screen display of map possible.

Dual map



Dual screen display of map.

Turn List



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

Turn Arrow



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

Enlarged Junction Diagram

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.

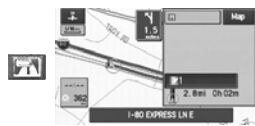


During route guidance, an enlarged diagram of an approaching fork or junction appears. When you drive past the junction, the enlarged diagram disappears.



During route guidance, an enlarged diagram of the freeway automatically appears in a second screen as you approach a fork on the freeway. This is to make route guidance even clearer.

Freeway information



A simplified diagram of the freeway can be displayed.

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 .



| | Imperial display | Metric display |
|------------------------|------------------|----------------|
| | ← 128 mi (mile) | 256 km |
| | ← 16 mi (mile) | 32 km |
| | ← 2 mi (mile) | 4 km |
| Position before change | ← 1/4 mi (mile) | 500 m |
| | ← 1/32 mi (mile) | 50 m |

<Scale bar>

● ZOOM OUT: Enlarges the map.



● ZOOM IN: Reduces the map. (more detail.)



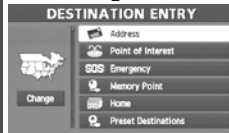
Destination Entry and Route Search

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



Change
(Change
Search Area)

Open the [DESTINATION ENTRY] Menu



→ **Select** **Change**

Routing

Open the [DESTINATION ENTRY] Menu



Select

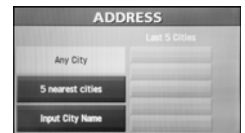


When narrowing down to house no.

When entering the street name directly
Select **Street**

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

Address





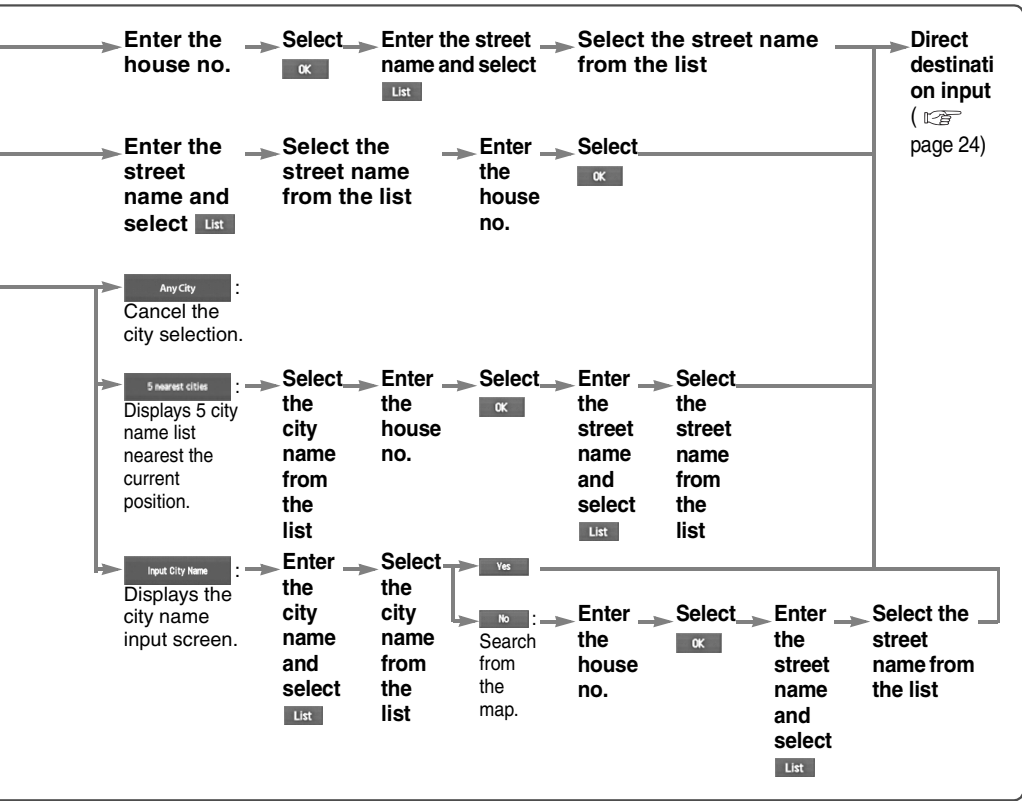
Warnings

- **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 can not 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 |
| 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 | |

DESTINATION ENTRY Menu screen appears
 Select **OK**



● For Character Entry, please refer to page 23.

Destination Entry and Route Search

Routing

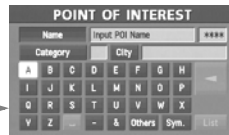
Point of interest

Emergency

Open the [DESTINATION ENTRY] Menu



Select

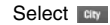


When entering the destination point directly

When narrowing down to category name



When narrowing down to city name



Select



(When stopped)

When stopped

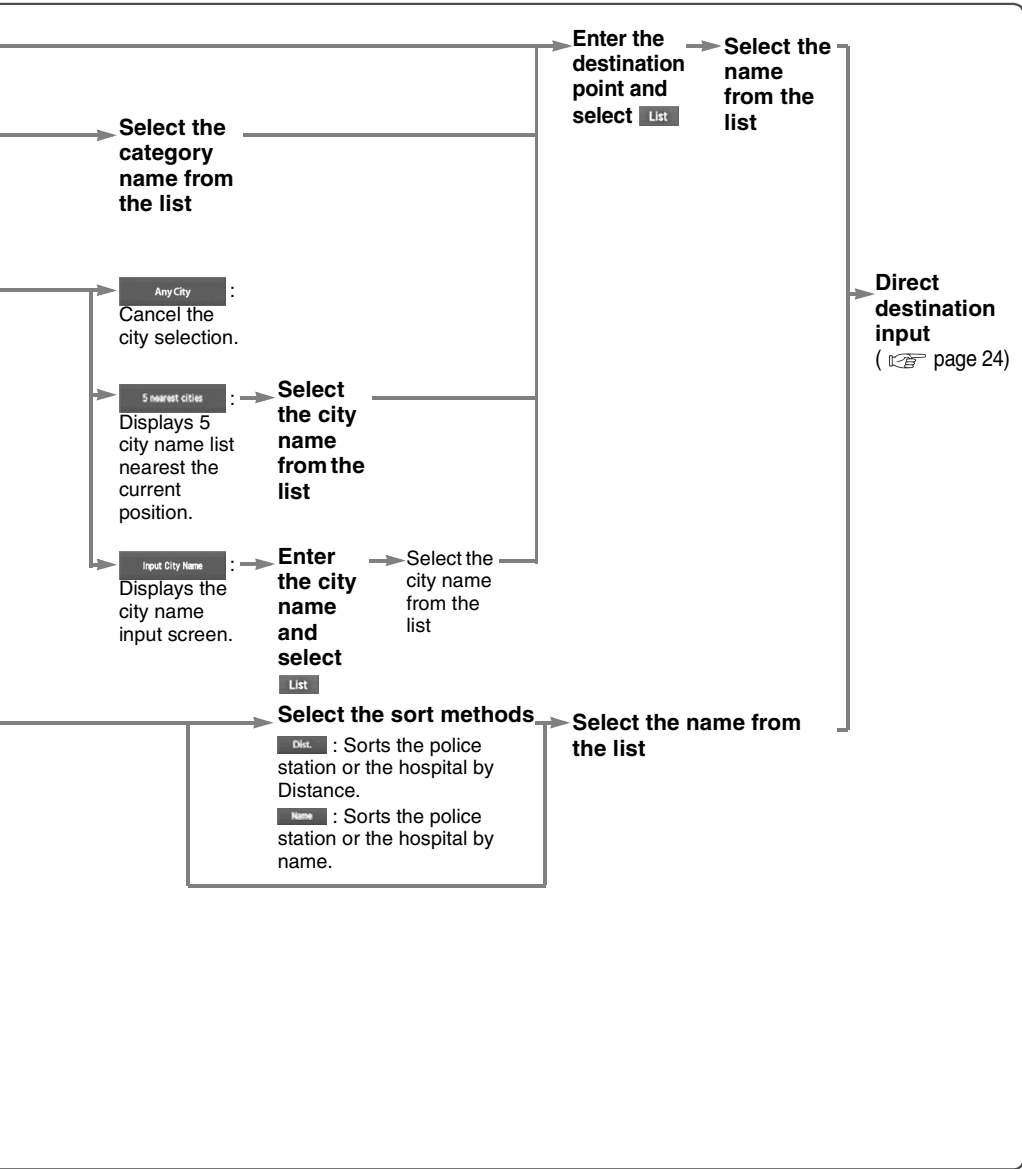
★ Police station
Displays the police station select screen.

⬇ 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.



● For Character Entry, please refer to page 23.

Destination Entry and Route Search

Before Steps

MENU

ENTER

select

Destination Entry



Routing

Memory Point

Open the [DESTINATION ENTRY] Menu



Home

Preset Destination

Previous Destination

Intersection

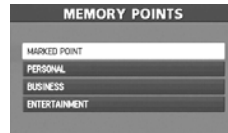
Freeway On/Off Ramp

Phone number

Coordinates

Select from map

Select Memory Point



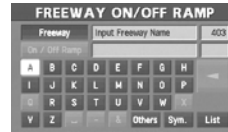
Select Home

Select Preset Destinations

Select Previous Destinations

Select Intersection

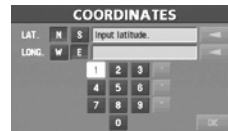
Select Freeway On Ramp / Off Ramp



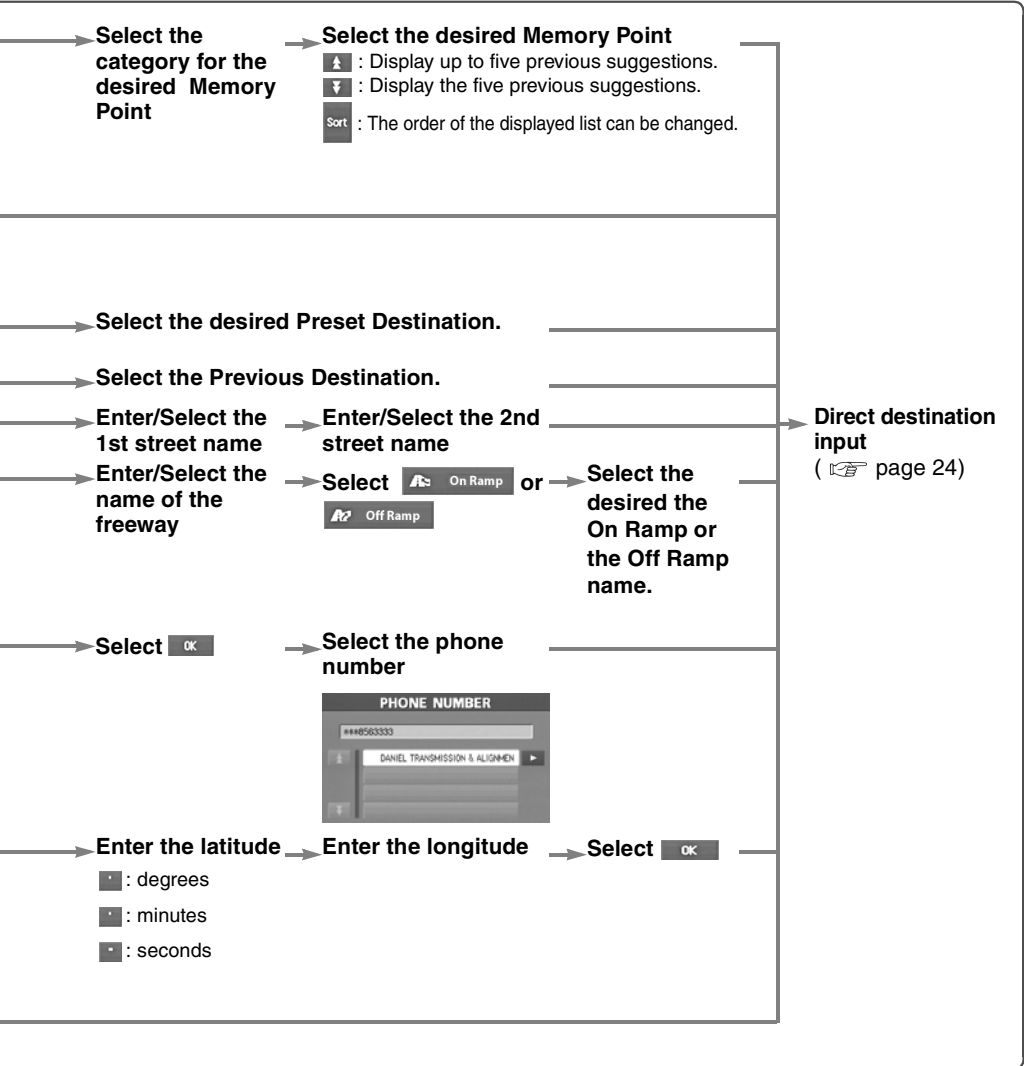
Select Phone number



Select Coordinates



Select Select from Map



● For Character Entry, please refer to page 23.

Use 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

Open the
[QUICK POI]



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

→ **Show**

● POI icon chart (👉 page 25)
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**

Local
Search

Deleting
POI
Markers

Routing

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)**

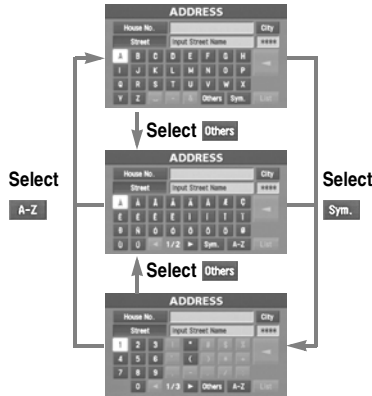
The POI(s) data is displayed.

📍 : Stores the location of POI as a memory point.

Character Entry

Select the first several characters on the screen.

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 the step 1, and try fewer characters.

▲ : Display up to five previous suggestions.

▼ : Display the previous suggestions.

▶ : Text flow (Right)

◀ : Text flow (Left)

Sort : The order of the displayed list can be changed. (Displayed list varies or **Sort** may not be displayed depending on what was input.)

Input name : Text can be input again. (Input name may not be displayed depending on what was input. Input name may be displayed when **Sort** is selected.)

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

List : The list appears.

● Examples

Street: ANBERG

Enter by selecting characters:

A N [] [] [] [] [] [] [] [] [] []

Street: ACHATWEG

Enter by selecting characters:

A C H A T [] [] [] [] [] [] [] [] [] []

Street: STRASSE DES 17. JUNI

Enter by selecting characters:

D E S [] 1 7 [] [] [] [] [] [] [] [] [] []

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

To enter the house phone number, and other.

Select the characters on the screen.

Select **OK**



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

Direct Destination Input

Direct Destination Input

1

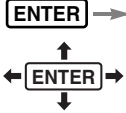


Position the cursor on your destination on the map

Scroll the map and change the map scale if necessary.



2



Select

Set Dest.



3

Select **Dest.** (Destination).

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

Select **Way Pt** (Way point) to set the address as a way point on your route (page 32). 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, **Chg. route** (Change route) allows the route option settings to be changed. (page 26)
- Selecting **Guide** for five seconds or more will launch the Demo mode.

Operate after Step 3 of [Direct Destination Input]

Selecting Route

4

Select **3 Routes**.

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 **Calculate** when you have decided on the route to be used.

| INFO FOR 3 ROUTES | | | |
|-------------------|-----------|-----------|-----------|
| | Quick | Altern. | Short |
| | 0h 3m | 0h 2m | 0h 3m |
| | 1.3 miles | 1.3 miles | 1.3 miles |
| | 0.0 miles | 0.0 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.

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

Routing

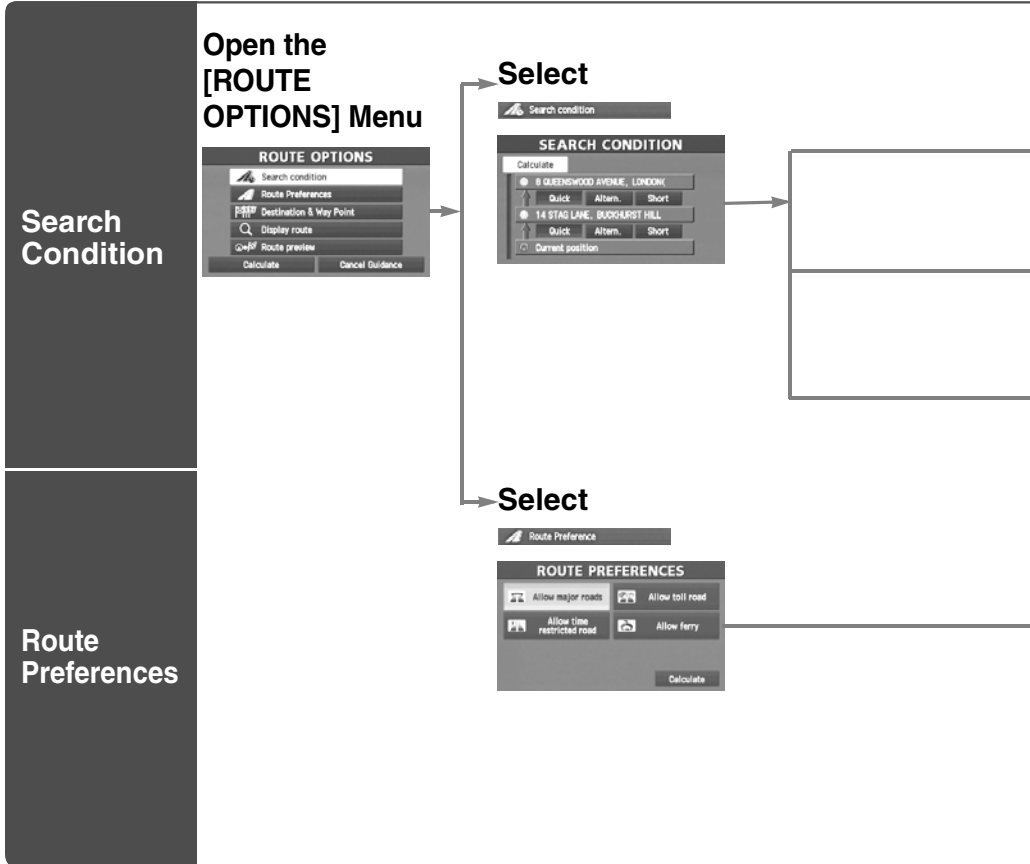


Route Options

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



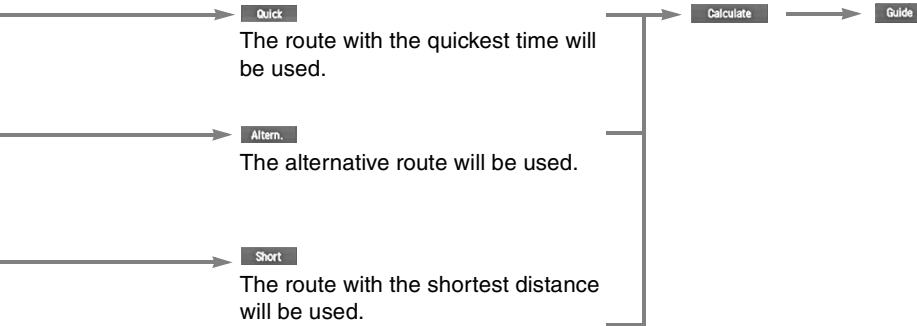
Routing





■ **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.



Each time a button is selected it will toggle between usage and non-usage of the corresponding roads or ferries.

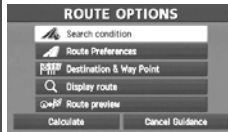
- **Calculate** can be selected during route guidance.
- The route will not necessarily follow the specified conditions.



Route Options

Before Steps **MENU** → **ENTER** select 

Open the [ROUTE OPTIONS] Menu



Select  Destination & Way Point



Addition of Way points

Add


Set the way point using your preferred method.



When a new destination is set by **Dest.** (Destination), it will replace the current destination and route calculation will be carried out once again.

Modification of Destination or Way Point Positions

List

Select  (Change Location).

Select the buttons for the way points in the order that they should be visited. If you wish to cancel an indication, select **Undo**. Alternatively, you can cancel it by selecting the destination/way points that set the order.

Modification of the Visiting Order

Delete

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

Deletion of Destination or Way Points

Delete All

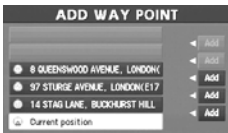
Yes → **Calculate**

No : Cancel the deletion

Deletion of Destination and All Way Points

Routing

→ Select **Way Pt**



→ **When the required way points have been setup, indicate the order in which they are to be visited.**

Choose the location to be added, and then select **Add**.

- When setting up the 2nd way point you also need to indicate the order.

- Repeat from the selected steps

Add, when you want to set up more than three way-points.

→ **Select the button for the location to be modified.**

Shows the map for the destination/way points.

→ **When the sequence has been completed, the visiting order will be updated automatically.**

→ **Move**  **to location and then press** **ENTER**.

Calculate

→ **OK**

Yes

→ **Calculate**

No

: Cancel the deletion

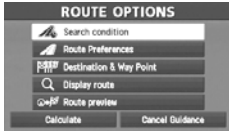
→ **Guide**

Route Options

Before Steps **MENU** → **ENTER** select 

Display Route

Open the [ROUTE OPTIONS] Menu



Select  Display route



Route Preview

Select  Route preview



Setting the conditions for simulation run

Recalculates the route

Select 

Stops route guidance

Select 

Routing

Turn List

The Entire Route screen appears.



Scroll

Enter the map scroll.

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


Scroll

: Enter the map scroll.



: Move the start point.




: Carry out a simulation run in the direction of the start point. When the run has been started, this button will be displayed as , and when selected, it will cause running to take place at high speed.



: Stop the simulation run.



: Carry out a simulation run in the direction of the destination. When the run has been started, this button will be displayed as , and when selected, it will cause running to take place at high speed.



: 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 41.

If, for example, Restaurant is selected for POIs and a simulation run is started using

To next POI

, this will then stop at a restaurant on the route.

If **Info.** is selected here, the system will display information relating to the establishment question.

RET

Yes

No

: Cancel the Cancel Guidance.

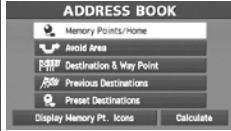
Address Book

- You can, edit, or delete any destinations, way points, or marked point.



Memory Point Storage

Open the [ADDRESS BOOK]



Select



Select the category from the list.

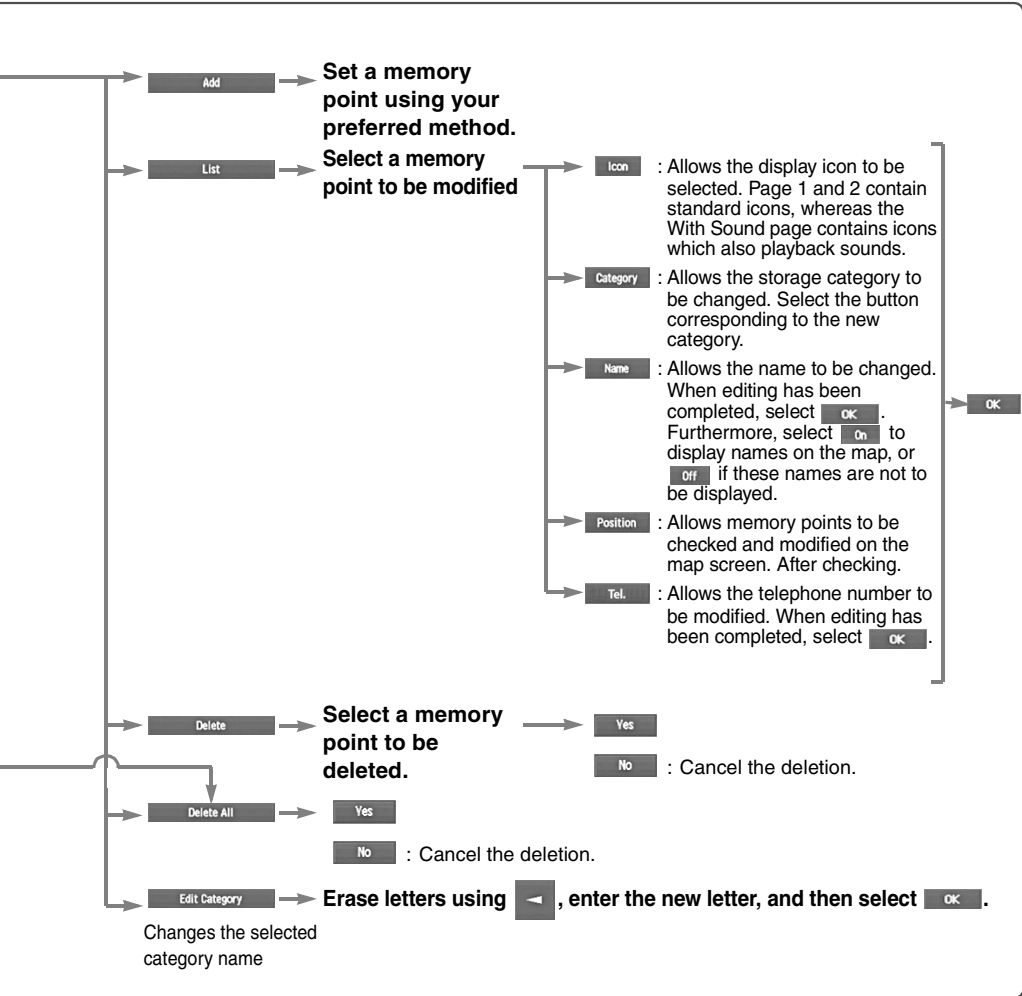
Memory Point Confirmation and Modification

Memory Point Deletion

All Memory Point Deletion

Category Name Modification

Address Book



Address Book

Before Steps

MENU

→ **ENTER**

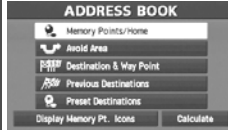
select

 Address Book

Avoid Area Storage

**Open the
[ADDRESS
BOOK]**

Avoid Area Confirmation and Modification



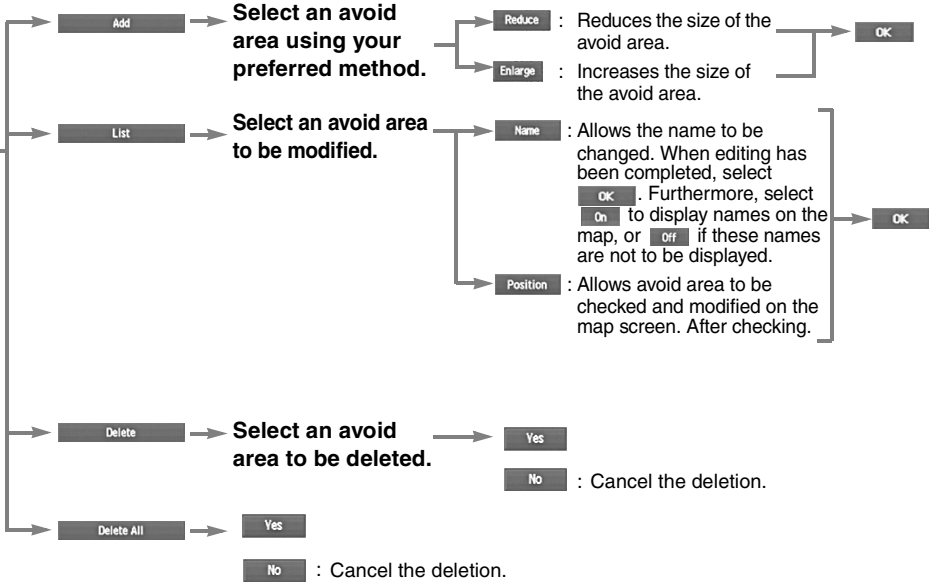
Select

 Avoid Area

Avoid Area Deletion

All Avoid Area Deletion

Category Name Modification



Address Book

Before Steps

MENU

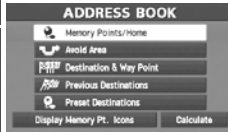
→ **ENTER**

select

 Address Book

Destination & Way Points

Open the
[ADDRESS BOOK]



Previous Destination Deletion

All Previous Destination Deletion

Preset Destination Storage

Preset Destination Confirmation and Modification



Preset Destination Deletion

All Preset Destination Deletion

Displays Icons at Memory Points

Starts Route calculation

Select

 Destination & Way Point
( page 28)

Select

 Previous Destinations

Select

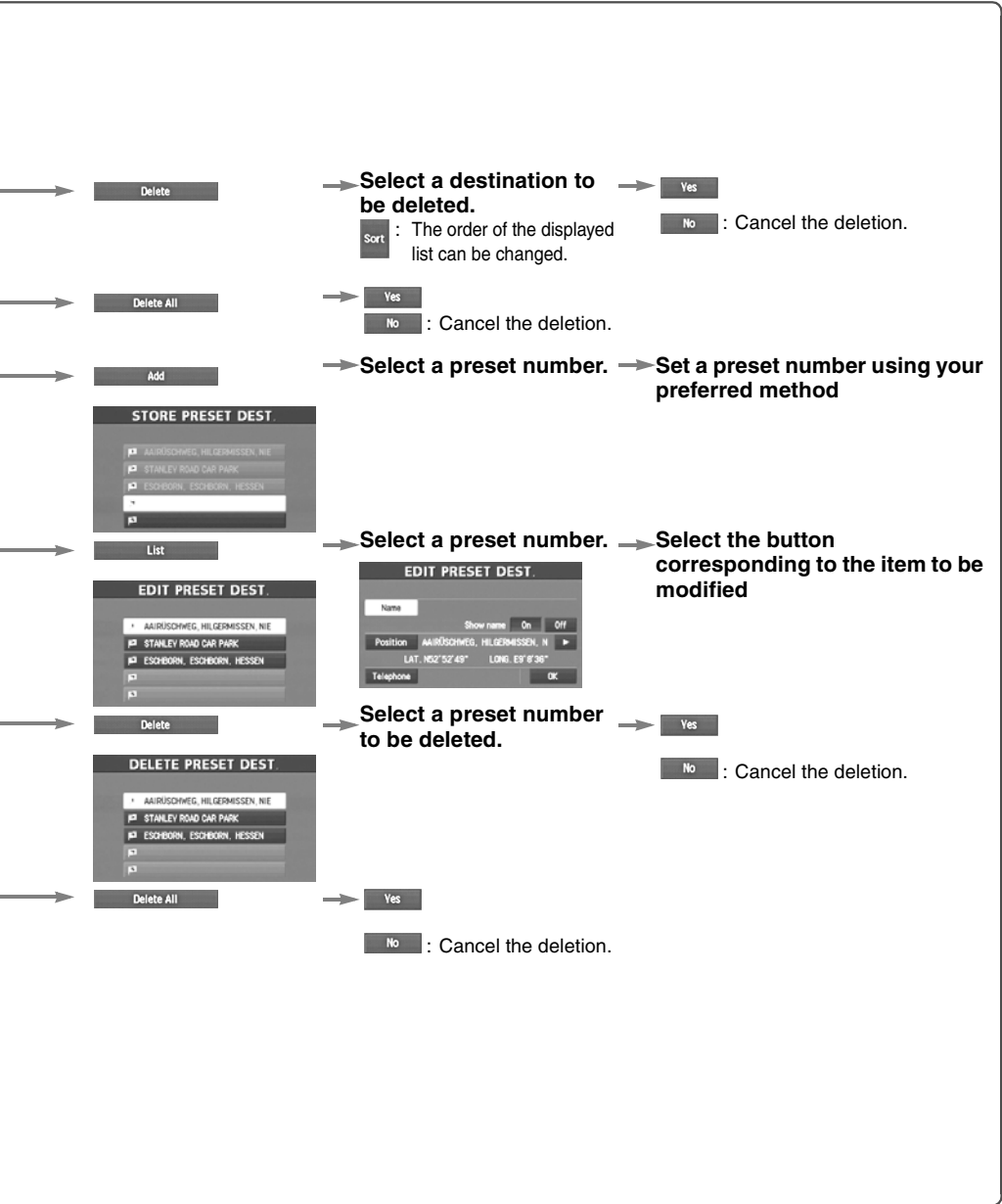
 Preset Destinations

Select

 Display Memory Pt. Icons

Select

 Calculate



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.

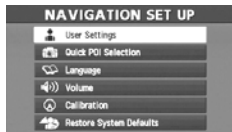
Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident.







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



Open

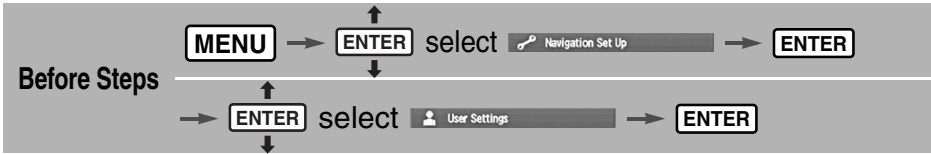
[NAVIGATION SET UP]



- **User Settings** ( page 39)
- **Quick POI Selection** ( page 41)
- **Language** ( page 45)
- **Volume** ( page 45)
- **Calibration** ( page 42)
- **Restore System Defaults** ( page 44)

Navigation Set Up

User Setting



Open the [USER SETTINGS] screen

Select page 1



MAP Color

Map Colour 1 2 3

Select a screen color from 1 of 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 Metric Imper.

Select the distance unit from Metric or Imper. .

Notify traffic restriction

Notify traffic restriction On Off

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

Arrival Time

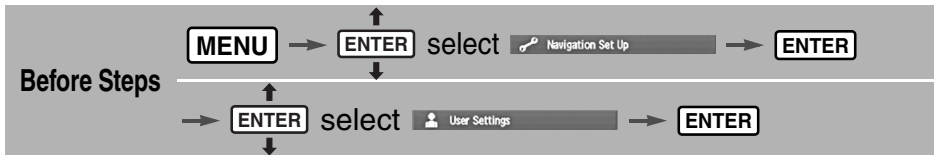
Arrival Time On Off

The time which is displayed until the destination or a way point can be set as an estimated arrival time or the remaining time. Select On to display the estimated arrival time, or Off to display the remaining time.

How to exit

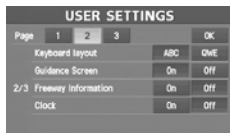
OK

Navigation Set Up



Open the [USER SETTINGS] screen

Select page 2



■ **Keyboard layout**



The layout of input keys can be selected as ABC or QwE .

■ **Guidance Screen**



Select whether Enlarged Junction diagram screen is displayed automatically.

■ **freeway information**



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

■ **Clock**



Allows selection of whether clock is to be displayed.

Select page 3



■ **Beep**



Allows selection of whether beep will sound.

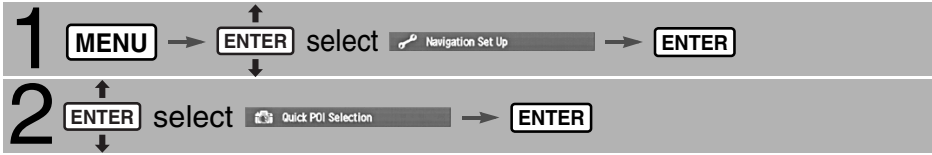
■ **How to exit**



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 category which you use most regularly.



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 setting.



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.

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


Before Steps **MENU** → **ENTER** select **Navigation Set Up**

Adjusting Current Position and Direction



ENTER select **Position / Direction** → **ENTER**

Open the [Position calibration] 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.

ENTER select **Distance** → **ENTER**

Distance is displayed

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

ENTER

ENTER

select

Calibration

ENTER

Set Clock

The current time is set using this function. Since time notification is provided by a GPS satellite, time-zone adjustment can be carried out automatically.

ENTER select Set Clock ENTER

Open the [SET CLOCK] screen



Select **24H** if you would 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**.

Map Version

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

ENTER select Map Version ENTER

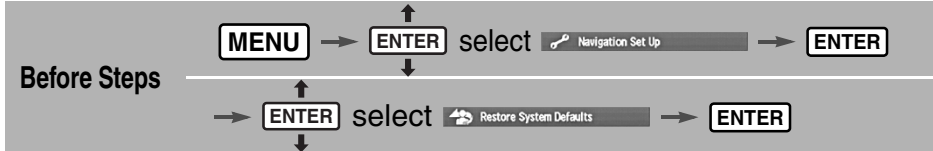
Map and software versions are now displayed.



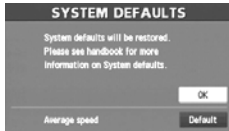
Navigation Set Up

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**.

Default : Restores the average speed setting to the initial value upon factory setting.

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

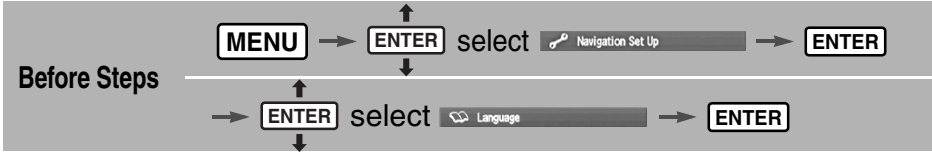
[Default List]

| Item | Initial condition |
|--|---|
| Menu names | |
| For maps (one screen and dual screen) | 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) Dual-screen: 40,000 map (1/4 mi) |
| Display guidance language | English |
| Q-POI map display | All Off |
| Q-POI Selection | A : Gas station B : ATM C : Parking D : Grocery store E : All Restaurant F : Hotel |
| Search Area | U9 (including Washington DC) |
| Map Color | 1 |
| Day/Night/Auto Setting | Auto |
| Distance Units (Miles/KM) (Global setting) | Miles |
| Volume Presets | 4 (1 to 7) |
| Right Screen Setting, POI | On |
| Time display change (12h/24h) | 24h |
| Keyboard layout | ABC |
| Arrival Time | Time |
| Navigation Setup (Clock) | Off |
| Navigation Setup (Beep) | On |
| Map display | |
| freeway information | Off |
| Guidance Screen | ON |

Navigation Set Up

Language

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



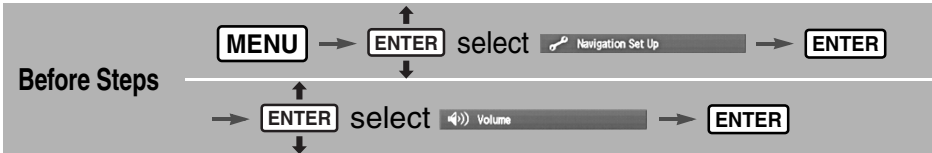
Open the [LANGUAGE] screen



Select your preferred language from the list.

Volume Adjustment

You can adjust the volume control for the voice guidance.



Open the [VOLUME] screen



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

Off : Sound output will be muted.

Precautions/System Performance

Voice Guidance

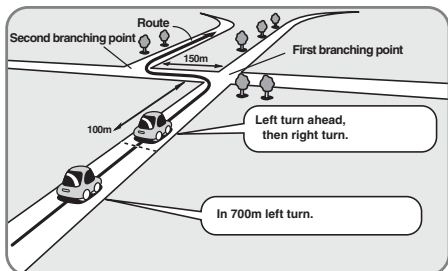


- The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable at times to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting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

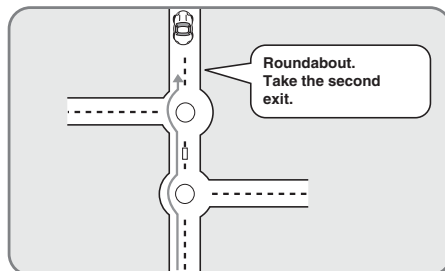
Voice guidance has the following functions:

■ 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.

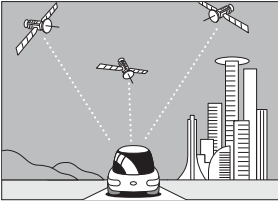


When two intersections are close together, the voice guidance may be late.



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

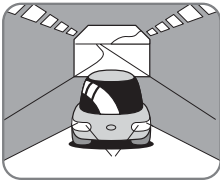
GPS



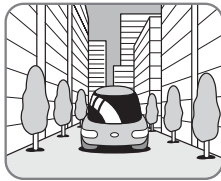
GPS is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Department of Defense. The Mobile Navigation System uses input from three or more satellites and calculates the vehicle position based on the principle of triangulation. The positioning accuracy of the system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

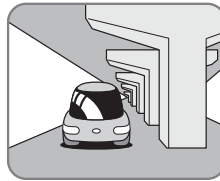
■ GPS signal reception is poor in the following places



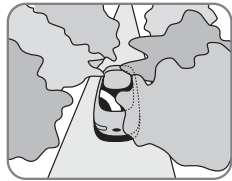
In tunnels



Among high-rise buildings



Under elevated roads



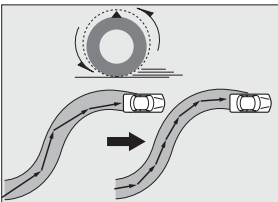
In wooded areas

- 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 Gyro sensor

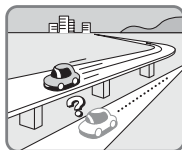
A gyro detects turns with an accuracy of 0.05° per second. Combined with a speed sensor, it enables the system to display the current vehicle position even where GPS signals may be blocked.

- 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.

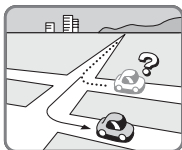
Precautions/System Performance

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.



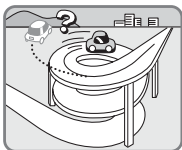
Running on an elevated road



Making a turn after driving on a long straight road



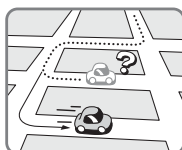
Running on a steep mountain road



Running on a spiral road



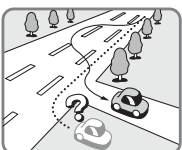
Entering an intersection where a road branches off at a small angle



Running on gridiron layout of roads



Running on a slippery road with tire chains



Snaking on a wide road



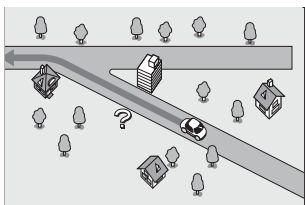
When your vehicle is on a turntable with the ignition turned off



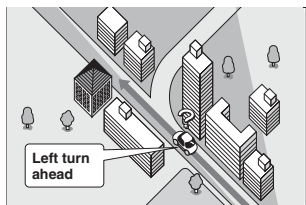
After getting off a ferryboat or vehicle train

Route Guide

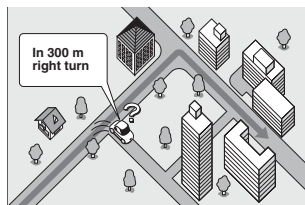
Although you may encounter the following problems in route guide, there is nothing wrong with the system.



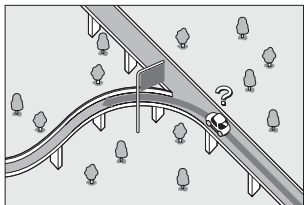
For certain intersection shapes, the upcoming turn or the name of the intersection may not be announced.



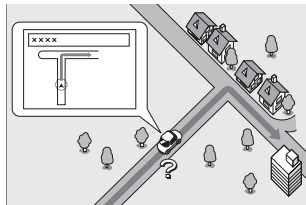
For certain intersection shapes, you may be prompted to turn right or left when you should actually stay on the same road.



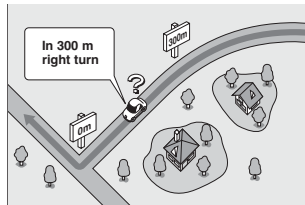
Voice guidance for the planned route may continue even after you have deviated from that route such as having turned too early.



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.

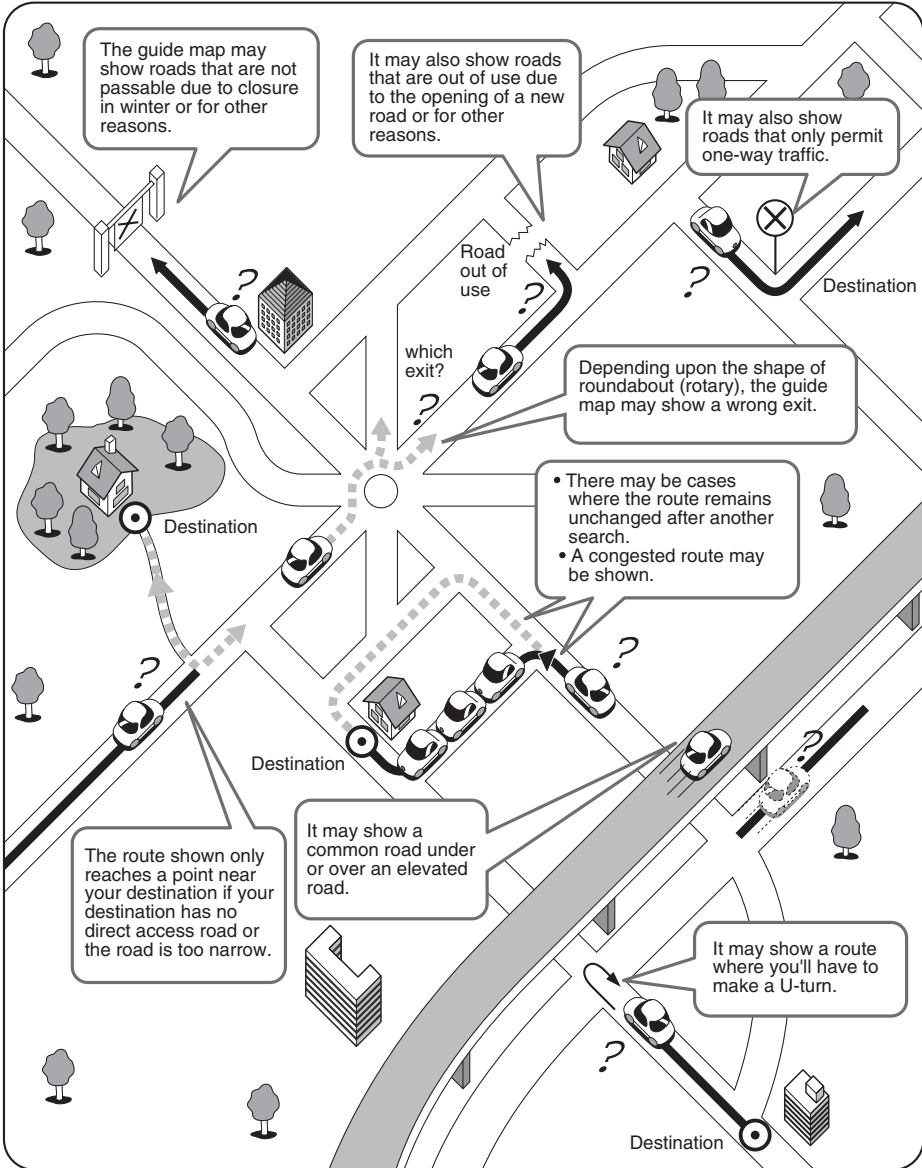
As necessary



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.



As necessary

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 repairer, we recommend an Authorized Mazda Repairer to ask for repair services.

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

As necessary

| Symptom | Check point |
|---|--|
| <p>No GPS symbols are displayed</p> | <ul style="list-style-type: none"> ● GPS signals may not be received because of obstructions. After moving the vehicle away from obstructions, the GPS signals can be received. |
| <p>The vehicle position is not displayed</p> | <ul style="list-style-type: none"> ● Check if the mode is set to the current position screen. <ul style="list-style-type: none"> ➔ Press POS |
| <p>No voice guidance</p> | <ul style="list-style-type: none"> ● Check if the volume control for the voice guidance has been turned off. ● Check if the vehicle is off the route. <ul style="list-style-type: none"> ➔ Repeat the route search while checking the route guide screen. ● Check if you are driving the vehicle in the wrong direction on the route. <ul style="list-style-type: none"> ➔ Repeat the route search checking the direction of the destination. |
| <p>Buttons in the remote control do not beep</p> | <ul style="list-style-type: none"> ● Check if [Beep] is set to [Off] ( page 40). |

As necessary

Troubleshooting

Error Messages

| Error message | Solution |
|---|--|
| Please insert a MAP DVD. | <ul style="list-style-type: none">● The disc is not installed.<ul style="list-style-type: none">➔ Check if the disk is installed. If installed, check if the installed disk is correct. |
| MAP DVD-Read Error | <ul style="list-style-type: none">● 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">➔ Eject the disc and check it. |
| The disc installed is not a MAP DVD. | |

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 repairer, we recommend an Authorized Mazda Repairer.

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.

Label side



<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

