

# NAVIGATION SYSTEM

# Contents, Accessories, and Laser

## Accessories

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

- Map Disc



- Owner's Manual

### **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.

**Prepa-  
ration**

**Imme-  
diate**  
use

**Advanced**  
use

**If**  
necessary

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As  
necessary

# 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 Authorized Mazda Dealer. Using the unit in 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.

- **Leaving children in a vehicle with the ignition key is dangerous.**

This could result in someone being badly injured or even killed. They could play with power windows or other controls, or even make the vehicle move. Don't leave the keys in your vehicle with children.



Warning

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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 disassemble.**

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

■ **Never attempt to play the map disc on an audio player.**

Do not attempt to play the map disc on other CD (DVD) player. The loud sound produced may damage your hearing and your speakers.

# Safety Information



## 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.
- **Do not leave the sliding front cover for the unit's disc insertion slot open.**  
If it is left open, foreign objects could enter the unit and cause damage.

## SOFTWARE (MAP DISC) LICENCE AGREEMENT

### PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING NAVTECH PRODUCT

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# Introduction

## Features

This DVD Navigation System combined with the NAVTECH's MAP Disc has following special features:

- **Detailed maps are used.**  
**Selected destinations will be displayed for easy viewing.**
- **Desired places or facilities can be stored in the memory.**

### Notes

- DVD audio and video will not work by this unit.
- This unit does not support all Video CD and CD formats.



#### ■ Map Disc

This unit supports only DVD-SDAL-formatted map disc (SEAMLESS) that NAVTECH has specifically designed for this unit. Mazda shall not be liable for any damages caused by using other formatted discs. Make sure to use only the discs specified for this product.

## Use This Product Safety

### ■ Avoid excessive moisture

Do not expose the product to water or excessive moisture. This could cause electrical shorts, fire or other damage.

### ■ 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 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.



## Map Related Issues

### Customer Service

If you need help with the operation your Mazda navigation system, want to report a map database error or wish to obtain a new map DVD, please call 1-888-NAV-MAPS (1-888-628-6277).

### Latest map DVD

Map content is constantly changing due to the addition of new roads, points of interest, traffic restrictions, etc. While every effort is made to supply the most accurate DVD map, it is not always possible for the DVD map to match the current roadways. Not all map areas are covered to the same level of detail. Some areas that include private roads may not be included on the database. Map DVD's are updated on a regular basis to check availability, please call 1-888-NAV-MAPS (1-888-628-6277).



### Notes

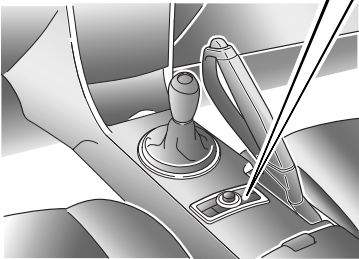
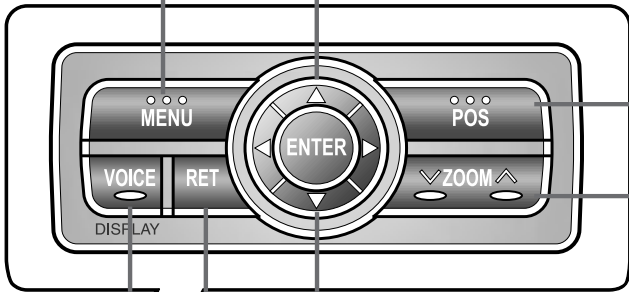
- Please have the map and software version numbers available in advance. This information can be found by using the following procedure:

- ① Press **MENU** on the remote control.
- ② Select **Setup Menu** and press **ENTER**
- ③ Use the remote control joystick to scroll through the menu options, select **System Information** and press **ENTER**
- ④ Select **Version** and press **ENTER**  
Map and software versions are now displayed.

- For further assistance please refer to pages 30 in the instruction book.

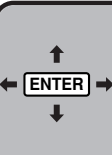
# Names and Functions

**MENU key**  
Displays menu.




**VOICE key**

- Initiates vocal guidance for route maneuvers.
- Adjusts screen quality. (📖 page 16)




**Joystick**


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



**POS (Position) key**  
Displays your current position.  
(☞ page 18)




**ZOOM key**  
Changes the map scale.  
(☞ page 19)



**ENTER key**

- Executes a selected item.
- Displays pop up menu.  
(☞ page 14)



**RET key**  
Returns to the previous screen.

# Before Use Activation

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



Caution

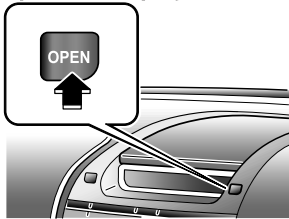
## ■ Map Disc

- Only map discs with a NAVTECH DVD-SDAL format that are seamlessly supported can be used with this unit. Use DVD-SDAL-formatted map discs (SEAMLESS) that NAVTECH has specifically designed for this unit.
- Refer to "Handling and Care of Map Discs" to know how to handle a map disc (page 41).

## Notes

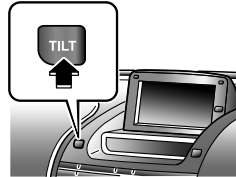
- The map disc cannot be inserted or ejected while the ignition switch is in the OFF position.
- Remember that the battery can run down if the ignition switch is kept in the ON or ACC position for a long time while the engine not running.

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



## Notes

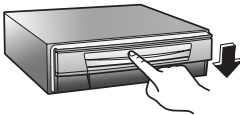
- The display angle can be adjusted by pressing **TILT**.



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

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

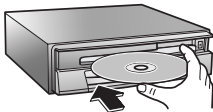
- 2 Slide the front cover down of the unit.



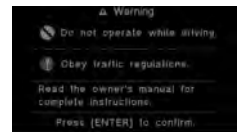
## Notes

- The main unit is located in the Center Console(Rear).
- 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, then 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, then consult an Authorized Mazda Dealer.
- Always close the sliding front cover. If it is left open, foreign objects could enter the unit and cause damage.

- 3 Insert the map disc with the printed side facing up, and close the front cover by pushing it up.



Opening screen



[Warning] screen

## 4 Read the [Warning] **ENTER**



- Current position map appears.

### Note

The map displayed when you first turn on the unit might show a different area than where your vehicle is currently located. The map display will change to your current area once GPS positioning signals are received.

## 5 Select a language (Default: English). For details ( page 33)

**MENU** → Select **Setup Menu** → **ENTER** → Select **System Setup** →

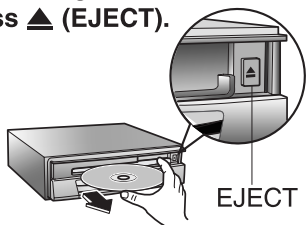
**ENTER** → Select a Language → **ENTER**

### Notes

- The following languages are available for the display and voice guidance:  
English (Default), French
- Once selected, the system should stay with your language choice.

## Removing the Map Disc

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



Caution

- 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.
- Keep the front panel of the navigation system closed except when loading or unloading a map disc. Dust can cause malfunction.

# Pop Up Menu

Pop Up menu appears when pressing **ENTER** .

This function is mainly used during route searches.

■ When route has been set or route in operation

North Up

- Detour
- Route Preview
- Maneuver List
- Marked Point
- Head Up
- Stop Calc
- Reroute
- Calc Method
- Volume
- Delete Dest.

- Route change ( page 26)
- Route display ( page 25)
- Route list display
- Marked point registration ( page 28)
- Map orientation change ( page 19)
- Stop route Search ( page 25)
- Rerouting
- Note** Appears only when the auto reroute function ( page 32) is inactivated.
- Change of routing Search method ( page 21)
- Change volume
- Delete Destination ( page 25)

■ When scroll map is displayed

- Marked Point
- Destination
- Nearest POI

- Direct destination input with the joystick ( page 24)
- Near POI (Point of Interest) search (within a radius of about 6 mile) ( page 24)

● Example : When **Detour** is selected.

Highlighted



Detour submenu

**Note**

This function is not available on intersection zoom maps.

# Before Use System Operation Verification

## Automatic distance correction

The mobile navigation system uses GPS data for distance correction automatically. It must be properly calibrated for accurate operation. Perform calibration in any of the following circumstances:

1. When using the navigation system for the very first time after installing the system.
2. When the navigation system is transferred to another vehicle.
3. When the tire pressure is changed, tires are rotated, the spare tire is used, tire size, or wheel diameter is changed.
4. When deleting the position correction learning results.

### Notes

- Start the driving after closing the opening screen as much as possible. The system is ready to start during opening screen.
- The vehicle position indicator may disappear temporarily after the speed is increased depending on the vehicle model. This is a normal phenomenon indicating that the system is calculating the distance correction.

### ■ Resetting automatic distance correction

Drive the vehicle in an open area for approximately 30-minutes at a speed over 20 kph (12.5 MPH) while receiving GPS signals.

### Notes

Make sure the GPS reception indicator is illuminated on the map screen.



————— GPS reception indicator

# Before Use Screen Quality Adjustment

**1** VOICE Press and hold

**2** ENTER ↕ ENTER

Before Use

Screen quality adjustment

---

Screen off

---

Day / Night mode selector

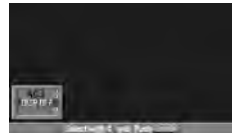
Open [Display Menu]



Select ADJ.

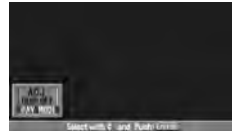


Select DISP OFF



Screen display turns off. Press any button to return to screen display.

Select DAY MODE / NIGHTMODE



headlights OFF - DAY MODE  
headlights ON - NIGHT MODE

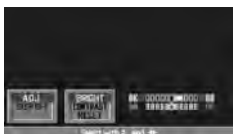
When the headlights are on, daytime mode can also be selected (if extra screen brightness is required under certain nighttime conditions). This selection can only be done when the headlights are on. Press ENTER to switch between day and night modes.



# 3

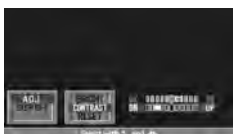


**BRIGHT**



Adjust screen brightness.

**CONTRAST**



Adjust screen contrast.

**RESET**



Returns screen to initial settings.

# Before Use Understanding Map Display

## Current position map

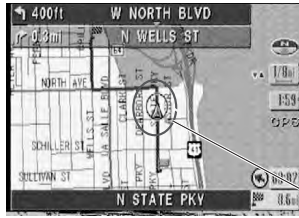
Shows the current position of your vehicle on the scale selected.

## 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 flag (black/white)  
Start point flag (green)



**POS** Changeover

- Map orientation
- Map scale
- Clock
- GPS reception indicator
  - Lights up when receiving signals from 3 or more satellites.
- Vehicle position

## Guide mode map

(en route guidance)

Shows the road you are driving on in an enlarged scale.

- It is necessary to set this function (page 32).



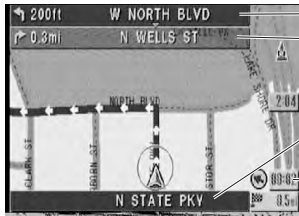
- Distance to the next turn
- Distance to the turn after the next turn.
- Arrow guidance for the next turn
- Distance to the next turn
- Destination direction
- Estimated travel time
- Destination distance

## Intersection zoom map

(en route guidance)

Shows an enlarged map as you approach an intersection.

- It is necessary to set this function (page 32).

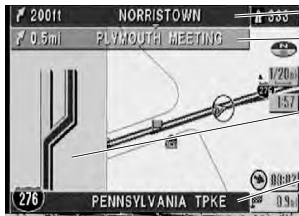


- Distance to the next turn
- Distance to the turn after the next turn.
- Current Road Name
- Estimated travel time

## Point of divergence map

(en route guidance)

Shows an approaching point of divergence such as a turning point or exit while on an expressway.



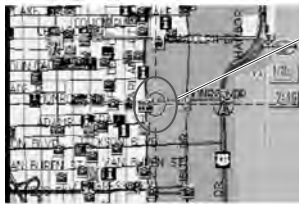
- Distance to the next turn
- Distance to the turn after the next turn.
- Point of divergence map
- Current Road Name

## Scroll map

Appears when operating **ENTER**

during displaying a current position map.

- This map can be scrolled with the crosshair cursor.



- Crosshair cursor
  - Move the crosshair cursor to a road, and press **ENTER** to display the road name.

## Note

- When the system shows no route available to reach your designated point, the destination may be set near the designated point. If so, please be aware that a point with a destination flag is not the point that you designated as your destination.

# 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** **ENTER** Open the pop up menu  
(while in current position map)

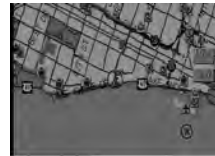


**2** **ENTER** Select **North Up** or **Head Up** and press **ENTER**

● **North Up** :  
Geographic north is up.



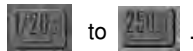
● **Head Up** :  
The direction you are heading is up.



## Map scale

**1** **ZOOM**

● The map can be displayed in twelve steps with scales from



● **ZOOM OUT**: Enlarges the map.




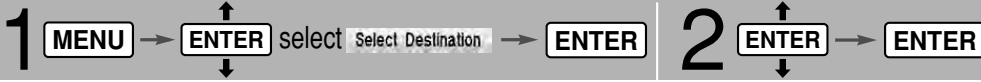
**ZOOM**

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



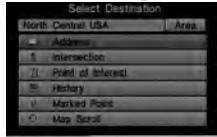
# Destination Entry and Route Search

● If you would like to go back to your start point, select the [History] in the [Select Destination] Menu, after that, select a green flag icon  as a destination.

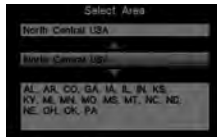


- Destination by address
- Destination by intersection
- Destination by POI
- Destination by history
- Destination by a marked point
- Destination by the map

## Open the [Select Destination] Menu



## Select Area



※ Default: North Central USA

## Character entry (page 22)

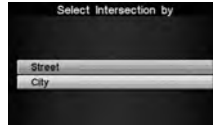
To enter the street name, city name, zip code, and other.

## Select Address



- Street
- City
- Zip Code

## Select Intersection



- Street
- City

## Select Point of Interest

Select a destination from the POI categories.

● POI icon chart (page 23)

- City
- Name
- Nearest

## Open the [Select Destination] Menu



## Select History

## Select Marked Point

● Refer to page 28 for information about marked points.

## Select Map Scroll



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.

3



Character entry or selection  
( page 22)



4



Enter/Select the street name.

Enter/Select the city name.\*1

Enter the Zipcode.\*2

Select the city name.

Enter/Select the street name.

Select the house number

\*1 The memory stores up to 10 cities visited recently, and these city names can be selected.  
 \*2 Depending on the area, zipcode search may not be possible.

Enter the name of the city where your target intersection is.

Enter the name of a street that is part of the intersection.

Enter the other street name that makes up the intersection.

Enter the target city name.

Enter the target name.

Select a desired destination from the list.

(The 20 closest destinations to the current position appear (within a radius of about 30 mile.)

Select a destination from the list of recent destinations.  
(Up to 50 points including the latest starting point are in the system memory.)

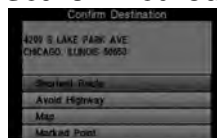
Select a destination from the list of Marked points  
(Up to 100 points).

Move the crosshair cursor to the destination and press **ENTER**.



Select **Destination**

### Search method



#### Shortest Route

This is the route that reaches the destination in the shortest time.

#### Avoid Highway

This route reduces the use of highways (if there are highways on the way).

#### Map

You can designate a destination on the map. (Move the crosshair cursor to the destination.) The following menu will be displayed when **ENTER** is pressed on the map display. [Marked Point] [Destination] [Nearest POI]... ( page 24)

#### Marked Point

Marks the destination resulting from the search.

#### Note

The results from the route search are not always the shortest routes. You cannot always avoid the highways even if the highway is set to [Avoid Highway]. For example, you will be on the highway when your vehicle is on the highway or when your destination exists on the highway.

# Character Entry



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

Select the first several characters on the screen.



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

**OK** : The list appears.

● Up to 10 characters can be entered.



Caution

■ **Entry of a street name**

Do not enter the type of street such as ST, AVE, PL, LN, or RD as the search may not perform successfully.

● Examples

Street : 33RD ST

Enter by selecting characters:



Select your target in the list, and press **ENTER**



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.

To enter the zip code, house number, and other.



Select the characters on the screen.



**Space** : Space

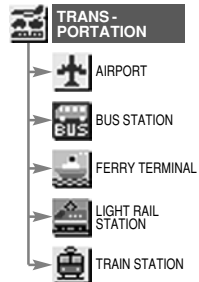
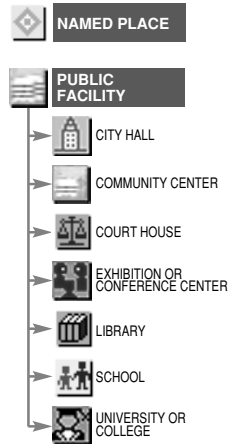
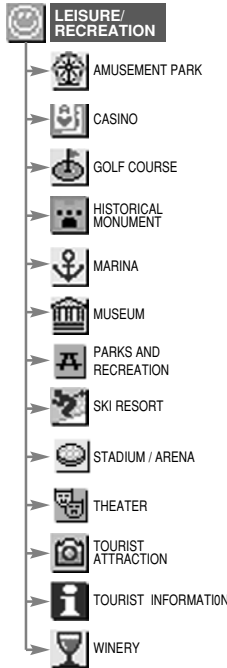
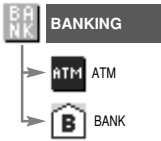
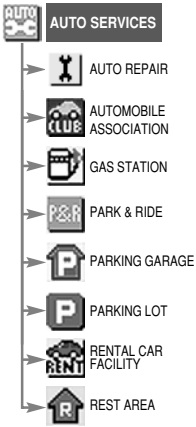
Select **OK** and press **ENTER**

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

# POI Icons on Maps / Zipcode Entry

## POI (Point of Interest) Icons

The following are POI icons shown on maps.



# Direct destination input

## Direct destination input



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

Scroll the map and change the map scale if necessary.



→ **Select a route search method** (☞ page 21)

- You can determine whether or not to use a highway if there is a highway within a radius of about 300ft from the crosshair cursor position. [Choose Highway]

**Yes** : Highway is used.

**No** : Highway is not used.

### Notes

- A point near the crosshair cursor position can be a destination if there is not a destination point at the specified point.
- A POI icon will be a destination if there is a POI icon close to the crosshair cursor.

## Driving to the nearest POI (within a radius of about 6 mile)



→ **Select the POI category**

- Icon list (☞ page 23)

→ **Select an icon from the list that you would like to go to.**

- The 20 closest destinations to your current position appear.

→ **Select a route search method** (☞ page 21)

### Note

When there is no POI that you would like to go to, then [POI Not Found] will appear.




# After routing

**Route search cancellation**

**During route search**

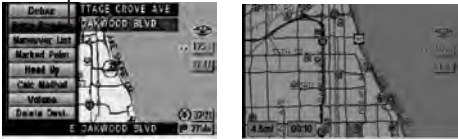
ENTER → ENTER (with up/down arrows) → Select Stop Calc → ENTER



**Whole route display (while on current position map)**


**After route search**

ENTER → ENTER (with up/down arrows) → Select Route Preview → ENTER



**Delete destination (while on current position map)**

ENTER → ENTER (with up/down arrows) → Select Delete Dest. → ENTER



# Route Changes

● This function allows you to search for alternative routes to the same destination.

1 ENTER

2 ENTER → ENTER

Alternative route search

Open Pop up Menu (while on current position map)



Detour

Alt Route

Avoid streets

Avoid Streets

Via point

Via Point

■ Select the first point that you would like to go by on the way to your destination.

Detour distance

Detour 5 Miles

Routing



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

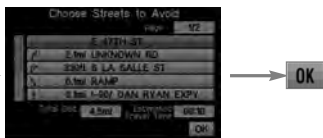
Do not change the settings and destination locations while driving. Minimize the time spent viewing the monitor screen and listening to the voice guidance while driving. Operating the system will distract the driver from looking ahead of the vehicle and may cause an accident. Always stop the vehicle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

### Select a route



- Maximum 3 routes (including the current one) appear.

### Select streets to avoid



- Streets to avoid become gray

### Select the second and following via points

**Add**



When adding a new point between the current position and the first point



When adding a new point between the first point and the destination

### Delete a via point

**Delete**

Select a point that you would like to delete.

Use the point search and entry by following the same steps in "Destination Entry and Route Search" (📖 page 20, 21)

- Refer to page 32 for designating the detour distance.

### Notes

- The detour may be longer than the distance you specified.
- You can set up to five Via points. If you try to add a sixth point, then the [Delete] menu opens. It will prompt you to delete a currently selected point.
- If you add a Via point near your current position when adding points, then Avoid Highway may not be selected with the route search method in some cases.

# Marked Point

- Up to 100 points can be stored.
- Each stored point is memorized with its name and icon, and shown on the map.

**1** **POS** / **ENTER** **2** **ENTER**

**Marking your current position**

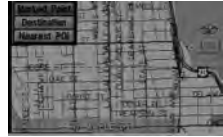
---

**Marking any point on the map**

Press **POS** to display the current position



Move **ENTER** to position the crosshair cursor on a point to be marked



**1** **MENU** → **ENTER** select **Setup Menu** → **ENTER** **2** **ENTER** → **ENTER**

**Changing a marked point icon**

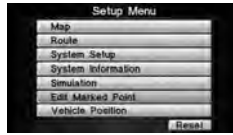
---

**Renaming a marked point (User POI)**

---

**Deleting a marked point**

Open [Setup Menu]



Select **Edit Marked Point**



Select **Edit**

Marking

# 3



Marked Point



**Stop your vehicle before doing 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 use the parking brake before operating the system.

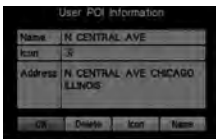
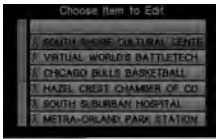
**Note**

If the same point is stored in “Marking Your Current Position”, then it is registered with one local name on the list. If the same point is stored in different processes, for example, as in “Marking Your Current Position” and “Marking Any Point on the Map”, then two local names, identical to each other, will be shown on the list.

# 3



**Select a marked point from the list**



- Information about the marked point appears.

Icon

**Select an icon**



OK

Name

**Enter a name**



OK

Delete

Yes



# Setup

● The setting is a variable to suit your preferences.



Warning

## ■ 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.

1

MENU →

↑  
ENTER  
↓

select

Setup Menu →

ENTER

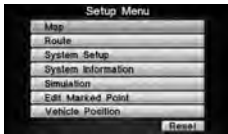
2

↑  
ENTER  
↓

ENTER

: Default

## Open [Setup Menu]



Map

Map setting (☞ page 31)

Route

Route setting (☞ page 32)

System Setup

System setting (☞ page 33)

System Information

Version

(☞ page 9)

Map area, Map disc (DVD) version and software version appear.

Simulation

You can check your route from the starting point to the destination.

This function is available after route setup is performed.

Edit Marked Point

(☞ page 28)

Edit

(☞ page 28)

You can change and delete marked points.

Display Icon

On

Off

- On : Icons on a map.
- Off : No icon on a map.

Vehicle Position

When the actual position of your vehicle is different from the vehicle position on a map



Change the vehicle position.



Change the vehicle direction.

- : Rotation in a clockwise direction by 11.25°.
- ← : Rotation in a counterclockwise direction by 11.25°.

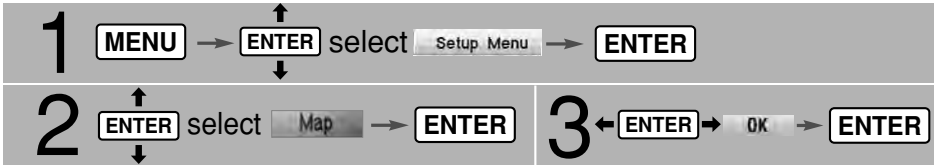
## ■ Restoring defaults

Reset →

ENTER

# Setup

## Map



█ : Default

### Open the [Map] screen



↑  
ENTER  
↓



#### ■ Color (daytime)



#### ■ Color (nighttime)



#### ■ Map Direction



- North Up : Geographic north is always up on the map.
- Head Up : The direction you are going is always up on the map.

#### ■ Vehicle Position



- Center : The current vehicle position indicator is displayed in the center of the screen.
- Off Ctr : The current vehicle position indicator is displayed at the bottom of the screen.

#### ■ POI Icon



- On : POI icons appear in their marked positions.
- Off : POI icons do not appear in their marked positions.

#### ■ Trace Mark



- On : The traced route is marked.
- Off : The traced route is not marked.


#### ■ How to exit



# Setup

## Route



 : Default

### Open the [Route] screen



#### ■ Detour (mile/km)

**Detour(mi)**

The detouring distance is specified.

- 1 : 1 mile/km ● 10 : 10 mile/km
- 2 : 2 mile/km ● 20 : 20 mile/km
- 5 : 5 mile/km

#### ■ Auto Re-route

**Auto Re-route**

- On : Searching for another route is activated to go back to the original route when you drive away from it.
- Off : No search takes place.

Usually, this function should be set to [ON].

#### ■ System Mode

**System Mode**

- Map : The map mode
- Guide : The guide mode map

#### ■ Zoom

**Zoom**

- On : The intersection zoom map appears automatically when approaching an intersection.
- Off : The zoom function is not activated when approaching an intersection.

#### ■ Estimated Travel Time

**Est. Travel Time**

- On : The estimated travel time is announced by voice guidance, and displayed on the current vehicle map.
- Off : No announce

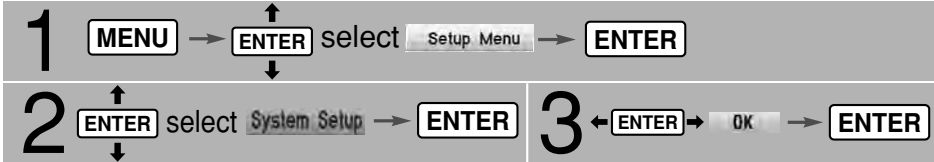
#### ■ How to exit

**OK** → **ENTER**



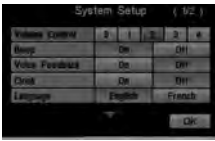
# Setup

## System



█ : Default

### Open the [System Setup] screen



#### ■ Volume control (5 levels)



Sets the volume for voice guidance and voice feedback\*. When the volume is set to 0, the voice is turned off.

#### ■ Beep



- On : Beep activated when pressing buttons in the remote control.
- Off : Beep inactivated when pressing buttons in the remote control.

#### ■ Voice Feedback\*

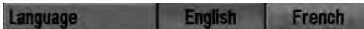


- On : Activates voice feedback.
- Off : Cancels voice feedback.

#### ■ Clock



#### ■ Language



#### ■ Changeover meter/mile



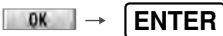
- Metric : Meters
- English : Miles

#### ■ Daylight Saving Time(Summer Time)



- On : Daylight saving time mode is enabled. (The navigation internal clock gains 1 hour).
- Off : Daylight saving time mode is disabled.

#### ■ How to exit



\* The operation status is announced by voice. (e.g. changing the map orientation, starting or terminating the route calculation, starting or terminating the simulation, displaying the maneuver list.)

# Precautions/System Performance

## Voice Guidance

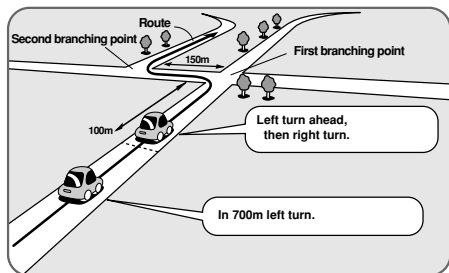


- The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable at times to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting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

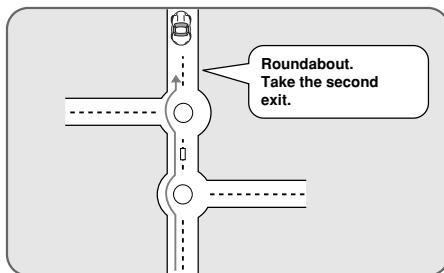
Voice guidance has the following functions:

### ■ 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.
  - ➔ This guidance function can be set in the [Setup menu]. For details, see page 32.



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

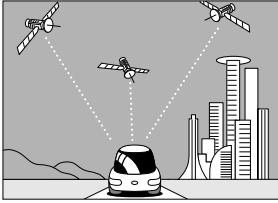


When two roundabouts are close together, the voice guidance for the second may be late.

## Automatic Distance Correction

- The mobile navigation system calculates and indicates the vehicle position on the map by multiplying the speed pulse emitted by the vehicle with a correction coefficient. The speed pulse emitted varies with the type of vehicle and with differences in tire pressure and wear. A different correction coefficient might even be required for the same type of vehicle.
- Using a spare tire in place of the regular one may cause vehicle position deviations.

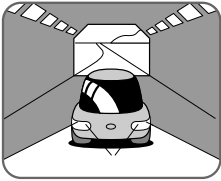
## GPS



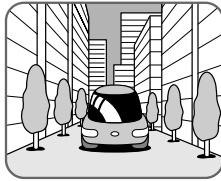
GPS is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Department of Defense. The Mobile Navigation System uses input from three or more satellites and calculates the vehicle position based on the principle of triangulation. The positioning accuracy of the system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

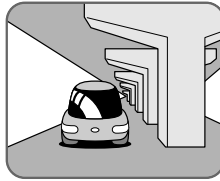
### ■ GPS signal reception is poor in the following places



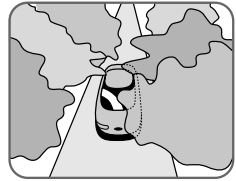
In tunnels



Among high-rise buildings



Under elevated roads



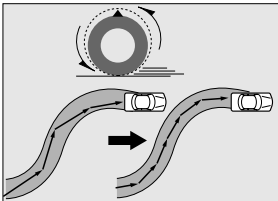
In wooded areas

- 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

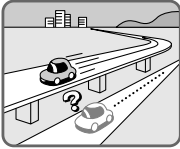
A gyro detects turns with an accuracy of  $0.05^\circ$  per second. Combined with a speed sensor, it enables the system to display the current vehicle position even where GPS signals may be blocked.

- 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.

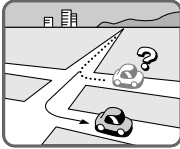
# Precautions/System Performance

## 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.



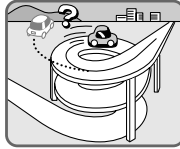
Running on an elevated road



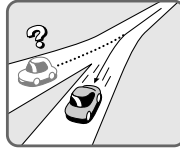
Making a turn after driving on a long straight road



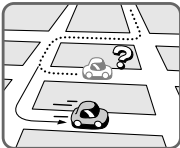
Running on a steep mountain road



Running on a spiral road



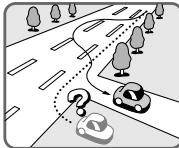
Entering an intersection where a road branches off at a small angle



Running on gridiron layout of roads



Running on a slippery road with tire chains



Snaking on a wide road



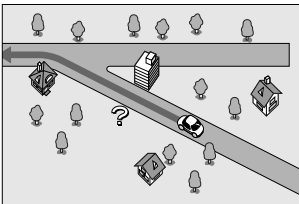
When your vehicle is on a turntable with the ignition turned off



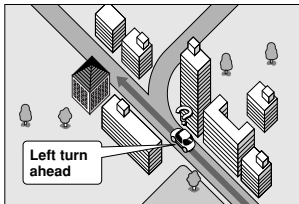
After getting off a ferryboat or vehicle train

## Route Guide

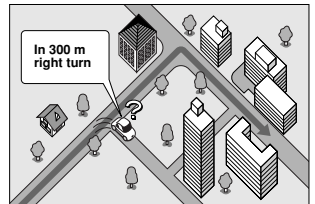
Although you may encounter the following problems in route guide, there is nothing wrong with the system.



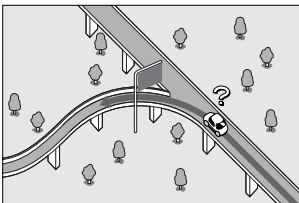
For certain intersection shapes, the upcoming turn or the name of the intersection may not be announced.



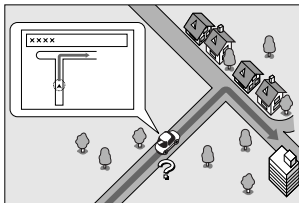
For certain intersection shapes, you may be prompted to turn right or left. When you should actually stay on the same road.



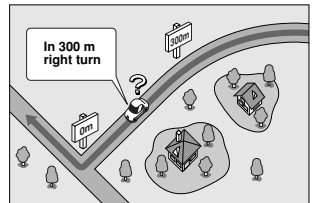
Voice guidance for the planned route may continue even after you have deviated from that route such as having turned too early.



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.

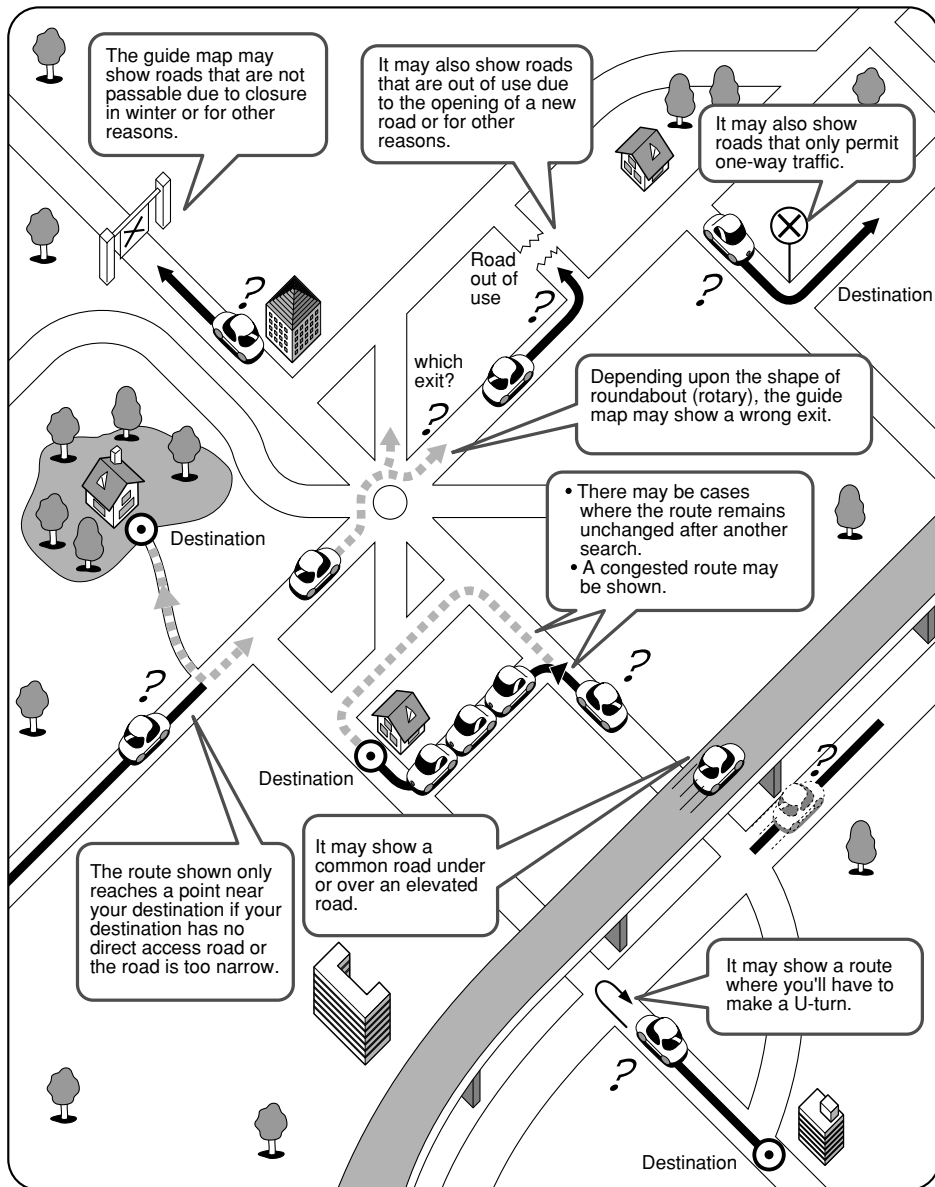
As necessary



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.




# 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 Authorized Mazda Dealer to ask for repair services.

Symptom	Check point
No picture	<ul style="list-style-type: none"><li>● Check if a fuse has been blown. ➔ Consult an Authorized Mazda Dealer.</li><li>● Check if the voltage level of the vehicle battery is low. ➔ Recharge the battery or change batteries.</li></ul>
The vehicle position is not correct	<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. ➔ Drive the vehicle for a while where you are receiving GPS signals.</li></ul></li></ul>

Symptom	Check point
<p><b>No GPS symbols are displayed</b></p>	<ul style="list-style-type: none"> <li>● GPS signals may not be received because of obstructions. After moving the vehicle away from obstructions, the GPS signals can be received.</li> </ul>
<p><b>The vehicle position is not displayed</b></p>	<ul style="list-style-type: none"> <li>● Check if the mode is set to the map mode.  → Press <b>POS</b></li> </ul>
<p><b>No voice guidance</b></p>	<ul style="list-style-type: none"> <li>● Check if the volume control for the voice guidance is adjusted to zero.</li> <li>● Check if the vehicle is off the route.  → Repeat the route search while checking the route guide screen.</li> <li>● Check if you are driving the vehicle in the wrong direction on the route.  → Repeat the route search checking the direction of the destination.</li> </ul>
<p><b>Buttons in the remote control do not beep</b></p>	<ul style="list-style-type: none"> <li>● Check if [Beep] is set to [Off] (  page 33).</li> </ul>
<p><b>No map displayed (blank screen)</b></p>	<ul style="list-style-type: none"> <li>● Check if the disc is wet, scratched, or dewy.</li> </ul>

As necessary

# Troubleshooting

## Error Messages

Error message	Solution
<b>Route Calculation failed</b>	<ul style="list-style-type: none"><li>● Change your destination and route, and repeat the route search.</li></ul>
<b>Cannot Read Disc</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.<ul style="list-style-type: none"><li>➔ Eject the disc and check it.</li></ul></li></ul>
<b>Accessing Data Please wait....</b>	<ul style="list-style-type: none"><li>● When the message appears in the opening screen:<ul style="list-style-type: none"><li>➔ Check if the map disc is wet from condensation, scratched, or dirty. If the same message is displayed when this operation is repeated after checking, then consult an Authorized Mazda Dealer.</li></ul></li><li>● When the message appears during operation:<ul style="list-style-type: none"><li>➔ If the same message appears after repeating the operation, then consult an Authorized Mazda Dealer.</li></ul></li></ul>
<b>Please Select another point.</b> * When entering your destination Unable to select Destination.	<ul style="list-style-type: none"><li>● Change your destination and route, and repeat the route search.</li></ul>



# 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 may mar the surface of the unit.

### ■ Map disc

If you require the latest map disc, consult an Authorized Mazda Dealer. For latest map disc information, please refer to "Map Related Issues" on page 9.

## Handling and Care of Map Discs



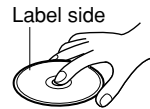
Caution

### ■ Map Disc

This unit supports only DVD-SDAL-formatted map disc (SEAMLESS) that NAVTECH has specifically designed for this unit. Mazda shall not be liable for any damages caused by using other formatted discs. Make sure to specify that a disc should be exclusively used for this product when you purchase it.

### ■ How to hold the disc

- Do not touch the underside of the disc.
- Do not make scratches on 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

