

# NAVIGATION SYSTEM

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	<b>Navigation Set Up</b>
<b>If necessary</b> See page 5 for specific information.	<b>If necessary</b>
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<b>Rear View Monitor</b> See page 77 for specific information.	<b>Rear View Monitor</b>

## Accessories

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



| Map Disc

### **CAUTION:**

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

### **Laser products:**

Wavelength: 650 nm

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

# MEMO



Before Use

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## Preparation

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# Safety Information

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



## Warning

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



- n **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.
- n **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.
- n **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 dealer, we recommend an Authorized Mazda Dealer. Using the unit in an out-of-order condition may lead to accidents, fires, or electric shocks.
- n **Use the proper power supply.**  
This product is designed for operation with a negative grounded 12 V DC battery system.
- n **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 dealer, we recommend an Authorized Mazda Dealer.

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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

- n **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.
- n **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.
- n **Protect the Deck Mechanism.**  
Do not insert any foreign objects into the slot of this unit.
- n **This navigation system is designed exclusively for use in automobiles.**  
This navigation system should only be installed in an automobile. Do not install it in a ship, aircraft, or any other vehicles except an automobile. Do not use it detached from the vehicle.
- n **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

## Product Use Safety

### **n Extremely low or high temperatures may interfere with normal operation**

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

## Navigation System

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

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

## Screens

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

# Names and Functions

The navigation system can be operated by pressing a button on the panel (panel button) or selecting a button displayed on the screen (on-screen button).



1. FM/AM button: FM/AM broadcast reception. Each time the button is pressed, the reception mode switches through three reception modes: FM 1 → FM 2 → AM.
2. SAT button: SIRIUS digital satellite radio reception.
3. CD button: CD playback.
4. MEDIA button: Image and Sound playback is possible using a portable video player connected to an external input terminal.\*<sup>1</sup>  
Sound playback is possible using an audio player connected to an external input terminal.\*<sup>1</sup>  
AUX1: External sound  
AUX2: External image
5. LOAD/EJECT button: CD loading and ejection.  
If the display is left in the lowered position for a certain period of time, a beep sound is heard and the display closes automatically.
6. NAVI button\*<sup>2</sup>: Display of the navigation screen and the vehicle's present location.
7. MENU button\*<sup>2</sup>: Menu screen display (various settings).

8. RTN button<sup>\*2</sup> : Button used to return to the previous screen.
9. DISP button: Screen brightness/contrast mode selection and adjustment display.
10. POWER/VOLUME button: The volume can be adjusted by turning the dial. Turn the audio unit off by pressing the dial.
11. TUNE/SEEK button: Performs tuning (short press) and searching (long press) in FM/AM mode. Performs track skip (short press) and fast-forward/reverse (long press) in CD mode.
12. SCAN button: Performs scanning operation in FM/AM and CD modes.
13. AUDIO button: Audio unit-related operation screen display (preset display of FM and AM).  
The on-screen touch button "SOUND" is constantly displayed at the bottom of the audio unit-related screen for displaying the sound quality adjustment screen when selected.
- <sup>\*1</sup> : The external input terminal is not equipped on your vehicle because it is not standard equipment.
- <sup>\*2</sup> : For navigation unit operation

### Note

- | If there is no response after selecting the on-screen button, remove your finger from the screen and select it again.
- | On-screen buttons that cannot be operated are not illuminated.



Caution

Select the on-screen button lightly with your finger.  
Selecting the on-screen buttons using objects that have a hard or sharp end such as a ball point pen or mechanical pencil could cause a malfunction.

# MEMO

# Activation

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



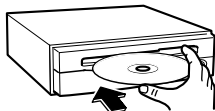
## n Map Disc

- Refer to "Handling and Care of Map Discs" to know how to handle a map disc (page 60).

## Note

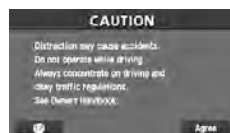
- The map disc cannot be inserted or ejected while the ignition switch is in the OFF position.
- Remember that the battery can run down if the ignition switch is kept in the ACC or ON position for a long time while the engine not running.

## 1 Insert the map disc with the printed side facing up.



## Note

- The main unit is located under the front passenger seat.
- 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

## Note

- When the ignition switch is in the ACC or ON position, the screen changes as follows to activate the navigation system.
- The screen (audio or navigation) that was displayed prior to the engine being turned off is displayed. Before the navigation screen is displayed, the CAUTION screen will be displayed.

- 2** Read the **CAUTION** carefully, and select the **Agree** on-screen button.



- | The Current Position screen appears.

#### Note

- | You can select the language by selecting the **Language** on-screen button. You can also change the selected language using Language Selection. ( page 51)
- | The CAUTION screen remains on the display unless you select the **Agree** on-screen button.

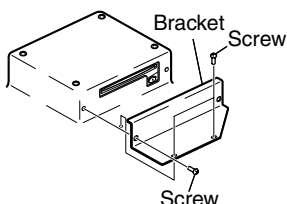


Caution

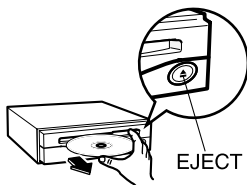
Most functions are inhibited while the vehicle is in motion. Please read the handbook for operation instructions. Always obey traffic regulations.

## Removing the Map Disc

- 1** With the ignition switch in the ACC position, remove the bracket.



- 2** Press **▲ (EJECT)**.



Caution

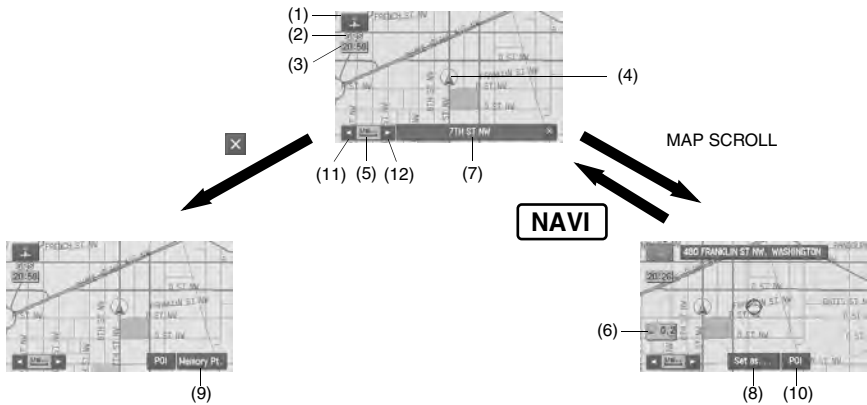
Do not get your hand or fingers caught in moving parts or in the disc slot. This can cause injuries. Children are inquisitive, try to install or remove the map disc without infants looking on.

## On-screen Buttons

Select the on-screen button lightly with your finger. Colors for unavailable buttons will be pale.

# Screen Names and Functions

## Screens Before Setting Route



- (1) **Map Orientation control**  
(☞ page 19)
- (2) **GPS (Global Positioning System) marker**  
(☞ page 54)
- (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) **Current Road Name**  
Shows the name of the road you are  
currently driving on.
- (8) **Set Destination button**  
The destination, memory point 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) **Quick POI Display button**  
(☞ page 28)
- (11) **Reduces the map screen**  
(☞ page 19)
- (12) **Enlarges the map screen**  
(☞ page 19)

## 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) **Route Preferences button**  
(☞ page 32)

## Menu

Menu appears when pressing **MENU**.



- Destination Entry and Route Search ( page 20)
- Address Book ( page 36)
- Cancel Guidance ( page 31)
- Route Options ( page 32)
- Volume ( page 42)
- Navigation Set Up ( page 44)

## Screen adjustments, beep alert and other settings

Display menu screen will be shown when you press the (DISP) button.  
Press the (DISP) button to display the display menu.



### n Adjusting the screen quality

#### Screen brightness

Press the **+** on-screen button to brighten the screen, or **-** to darken.

#### Screen contrast

Press the **+** on-screen button to increase contrast, **-** to decrease.

#### Screen color density (During external image input after pressing the (MEDIA) button.\*)

Press the **+** on-screen button to increase color density, **-** to decrease.

#### Screen color adjustment (During external image input after pressing the (MEDIA) button.\*)

Select **R** using the on-screen button to enhance the red intensity, or **G** to enhance the green.

### Note

- Select the **RESET** on-screen button to restore the adjustment values to the default settings.
- The screen changes to SETTINGS when the **SETTINGS** on-screen button is selected.
- Only BRIGHTNESS and CONTRAST adjustments are available for screens other than the video screen. TINT and COLOR are also available while the video screen is displayed.

### n Turning off the display

Select the **DISPLAY OFF** on-screen button to turn off the display.

The screen will reappear if the (NAVI) button is pressed, or the **DISPLAY ON** on-screen button, which is displayed on the screen when the (DISP) button is pressed, is selected.



\* The external input terminal is not equipped on your vehicle because it is not standard equipment.




## n Daytime/Night screen


When the headlights are on, daytime mode can also be selected (Daytime mode can also be selected while the headlights are turned on.).


## n Tilt display operation

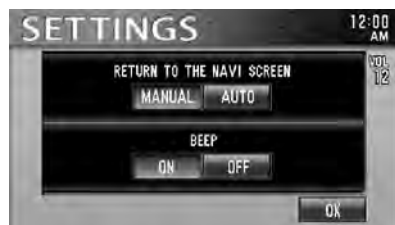
Select the  on-screen button to tilt the display,  to close it.

The display angle can be adjusted in three stages.


When opening, the display angle changes one stage at a time each time the  on-screen button is pressed.


When closing, the display angle changes one stage at a time each time the  on-screen button is pressed.

Press the (DISP) button followed by the  on-screen button to display the settings menu.





## n Returning to the navigation screen from the audio unit screen

l Select the  on-screen button to set the function to return to the navigation screen from the audio unit screen by operation of the button only.

l Select the  on-screen button to set the function to return to the navigation screen from the audio unit screen automatically after 20 seconds.


## n Beep sound settings

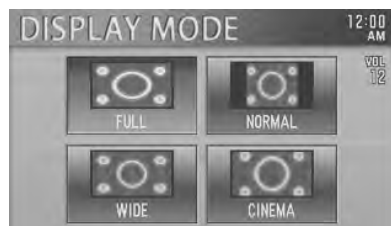
l Select the  on-screen button to activate the operation beep sound.

l Select the  on-screen button to deactivate the operation beep sound.

## n Screen Size Setting

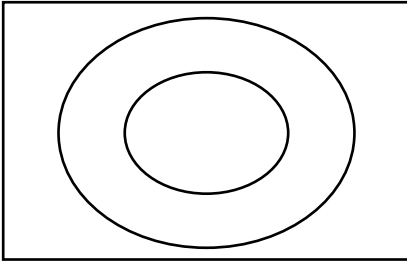
The size of the screen can be changed during external image input\*.

1. Press the (MEDIA) button .
2. Select the  on-screen button to set the desired screen size.
3. The on-screen button of the desired screen size is selected.



### n **Full screen**

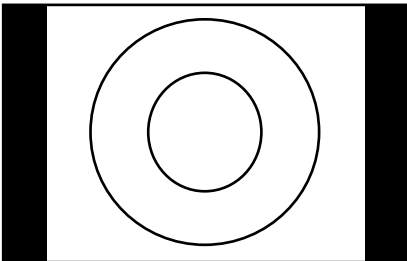
A full-screen image is displayed.



I A 16:9 screen ratio image is shown in the above figure.

### n **Normal screen**

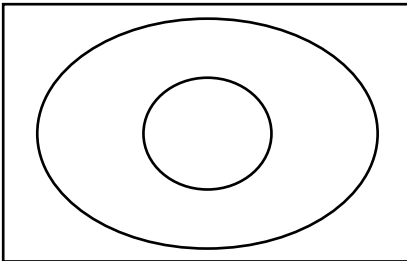
A 4:3 screen ratio image is the standard display, and black bands appear on each side of the screen.



I A 16:9 screen ratio image is scaled to a 4:3 screen ratio.

### n **Wide screen**

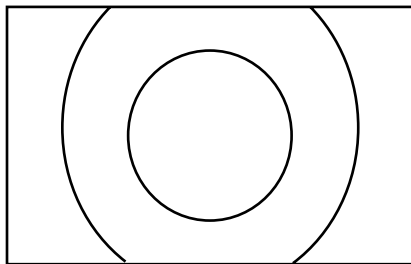
The center area of the image is compressed toward the center, and the surrounding area is enlarged toward the edge.



I A 16:9 screen ratio image is shown in the above figure.

## n Cinema screen

The image is enlarged upward and downward. A 4:3 and 16:9 screen ratio image are displayed with the upper/lower part of the image cut off.



I A 16:9 screen ratio image is shown in the above figure.

### Note

The display varies depending on the style of the image recorded on the disc. Refer to the following table and set the screen size.

Image style	Recommendation
4:3	Normal or wide screen
16:9	Full screen
Letter box	Full or cinema screen

\* The external input terminal is not equipped on your vehicle because it is not standard equipment.

# Screen change Changing the Map Orientation/Scale



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

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

### Map orientation

#### 1 Select , on-screen button.

| North Up: Geographic north is up.





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



### Map scale

#### 1 Select or on-screen button.

| The map can be displayed in 13 steps with scales from

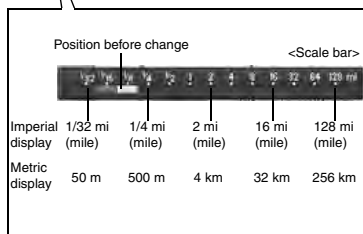
 to .



| ZOOM OUT: Enlarges the map.



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



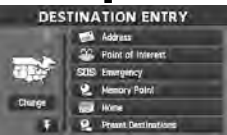
# Destination Entry and Route Search

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

Before Steps **MENU** → select  Destination Entry

Change  
(Change  
Search Area)

Open the [DESTINATION ENTRY] Menu



Select **Change**

Open the [DESTINATION ENTRY] Menu



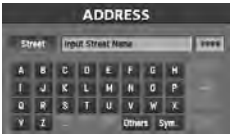
Select



When narrowing down to city name  
Select 



When narrowing down to street name  
Select 



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 cannot drive on and roads that you are prohibited from driving on due to traffic regulations. Please comply with the traffic regulations.

#### Select the desired Search Area

US1 : ID, OR, WA,

US2 : CA, NV

US3 : AZ, CO, MT, NM, UT, WY

US4 : IA, KS, MN, MO, ND, NE, SD

US5 : OK, TX

US6 : IL, IN, KY, MI, OH, WI

US7 : AR, AL, LA, MS, TN

US8 : CT, MA, ME, NH, NJ, NY, RI, VT

US9 : DC, DE, MD, PA, VA, WV

US10 : FL, GA, NC, SC

CAN : CANADA

RTN

#### Routing

**New City** :  
Cancel the city selection.

**5 Nearest Cities** :  
Displays list of 5 city names nearest the current position.

**Input City Name** :  
Displays the city name input screen.

Select the city name from the list

Enter the street name and select

List

Select the street name from the list

Enter the house no.

Select OK

Direct destination input  
()  
page 30)

Enter the city name and select

List

Select the city name from the list

List

Enter the street name and select

List

Select the street name from the list

Enter the street name and select

List

Select the street name from the list

Select the city name from the list

Enter the house no.

Select OK

For Character Entry, please refer to page 29.

# Destination Entry and Route Search

Point of interest

Open the  
[DESTINATION  
ENTRY] Menu



Select

Point of interest



When entering  
the destination  
point directly  
Select

Name

When narrowing  
down to city  
name  
Select

City

When narrowing  
down to  
category name  
Select

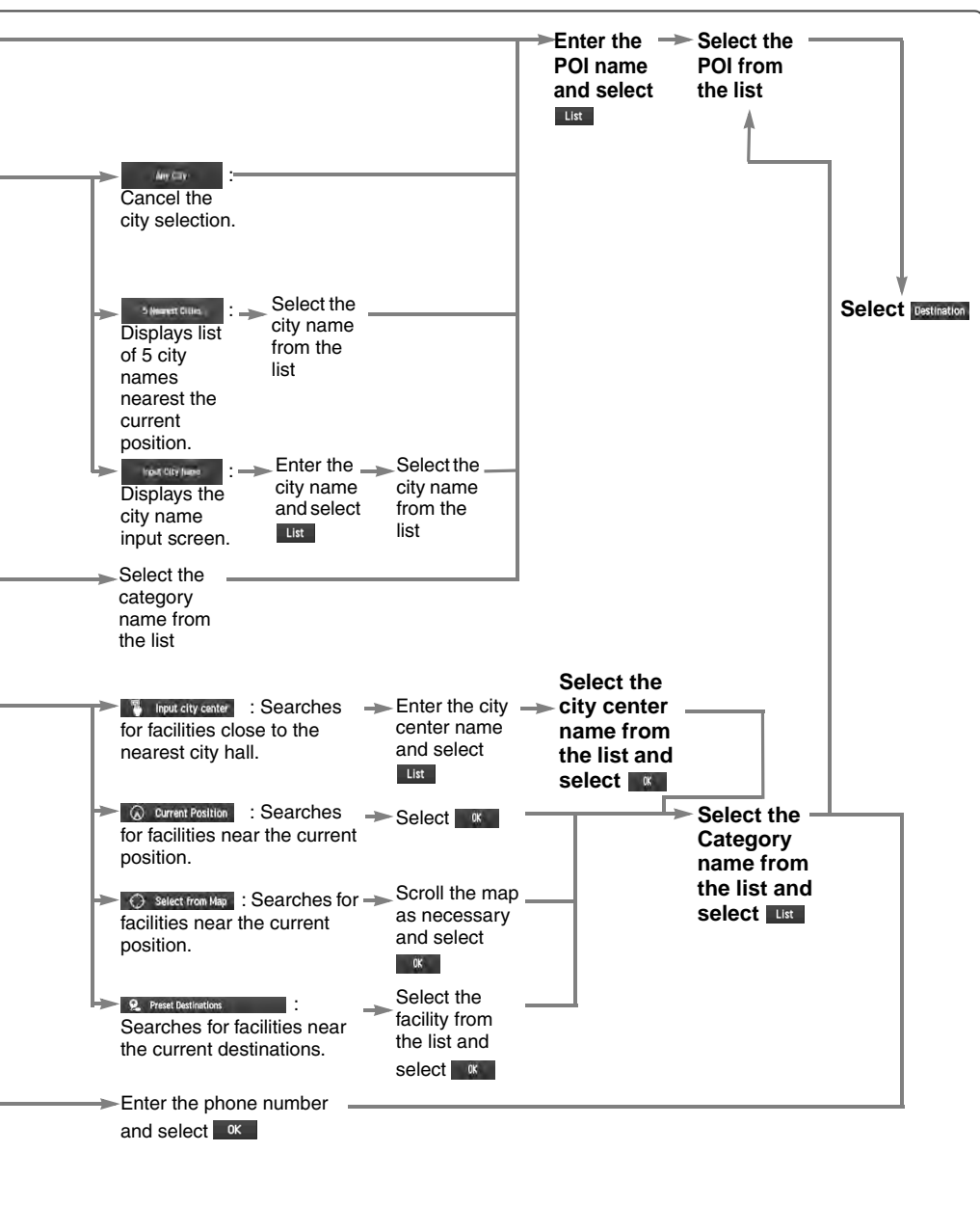
Category

When narrowing  
down to the  
nearest facility  
Select

Nearest

When narrowing  
down to a phone  
number  
Select

Phone Number



| For Character Entry, please refer to page 29.



# Destination Entry and Route Search

## Emergency

### Select

SOS: Emergency

**EMERGENCY**

Current: 1300 PENNSYLVANIA AVE NW

Position: WASHINGTON, DC

LAT: 38° 53' 42" LONG: 77° 1' 52"

★ Police Station

✚ Hospital

### When stopped

★ Police Station

Displays the police station select screen.

✚ Hospital

Displays the hospital select screen.

### When driving

★ Nearby police station

Sets the destination to the nearest police station automatically.

✚ Nearby hospital

Sets the destination to the nearest hospital automatically.

→ **Select the sort methods**

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

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

→ **Select the name from the list**

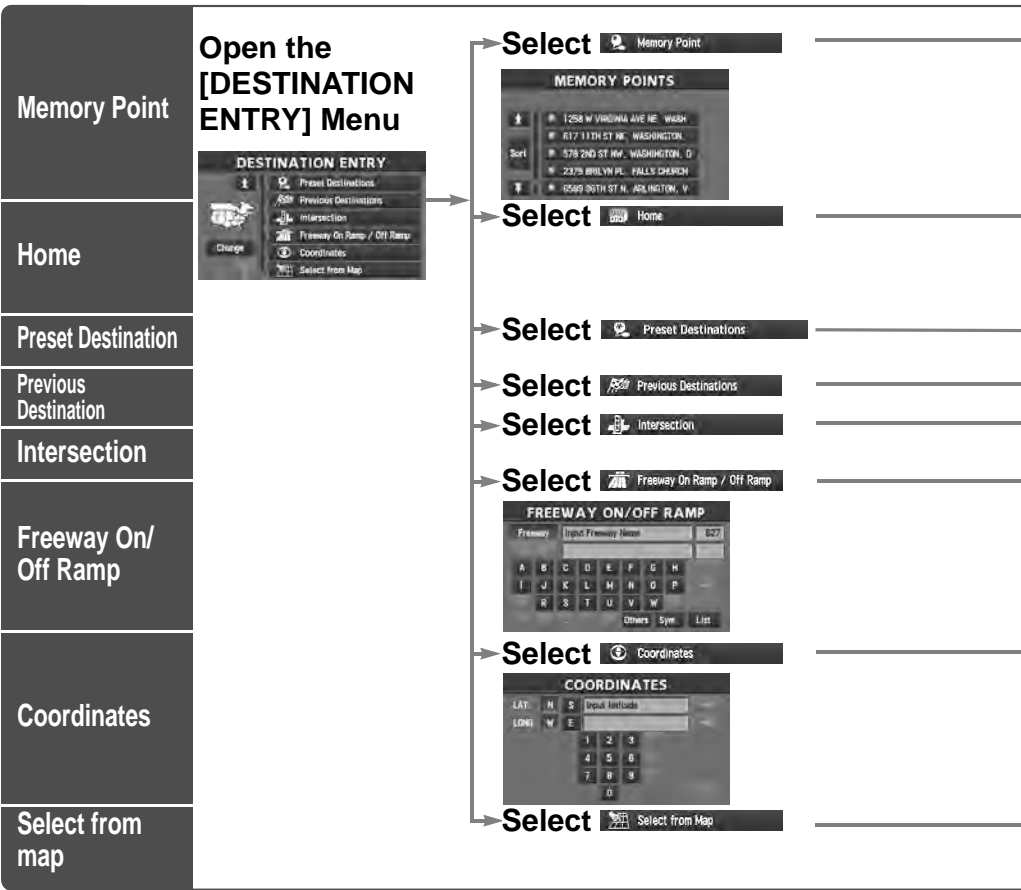
→ **Select**

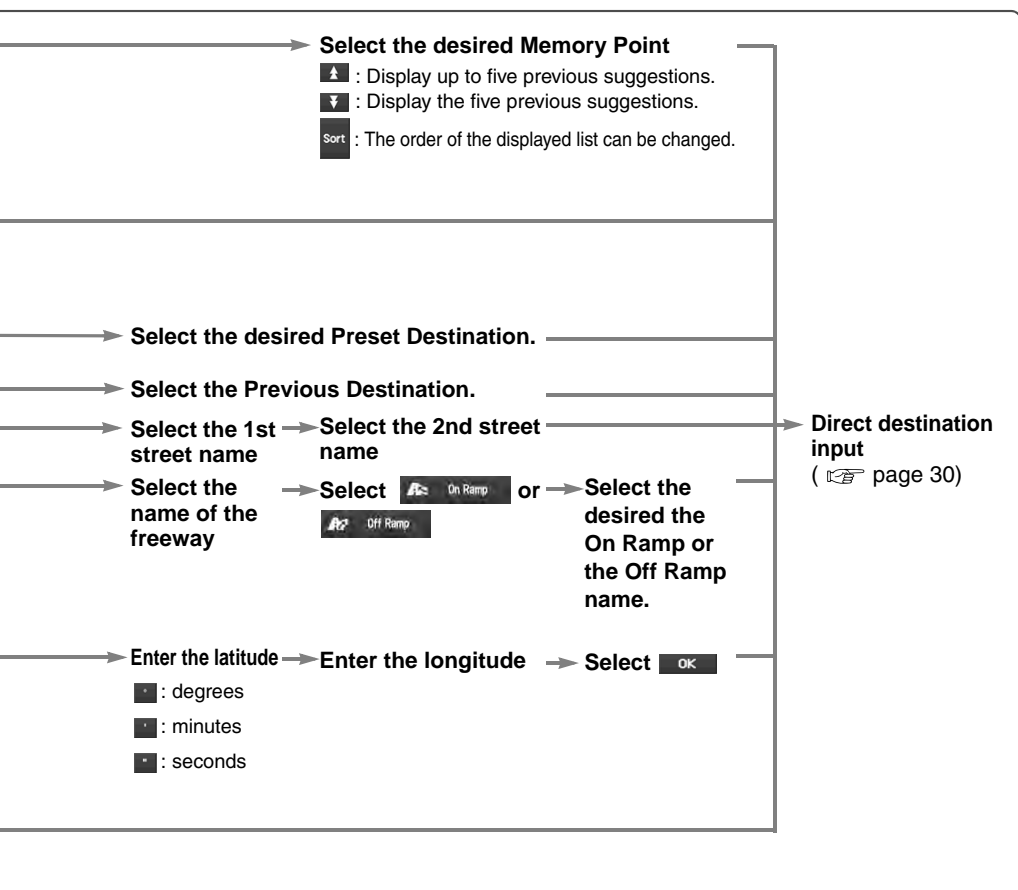
**Destination**

# Destination Entry and Route Search

Before Steps **MENU** → select  Destination Entry

Routing





| For Character Entry, please refer to page 29.

# Quick POI

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

Before Steps

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 31)  
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

Before Steps

Displaying POI(s) on a Map (above)

Showing  
POI Data

Display the POI.



→ **Select the desired  
POI by moving on  
top of the POI icon.**  
The name of the selected  
POI appears.

If no data is stored for the  
selected POI, the POI  
name is not displayed.

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

# Character Entry

Street name,  
city name,  
and other  
input

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



Select Others

Select

A-Z



Select Others



Select

Sym.

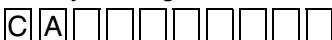
← : Move the cursor to the previous  
position and delete a character.

List : The list appears.

Examples

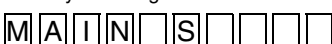
Street: CANAL

Enter by selecting characters:

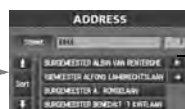


Street: MAIN STREET

Enter by selecting characters:



Select your target  
in the list.



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

↑ : 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 may not be  
displayed depending on what  
was input.)

Input Name : Additional text can be input.  
(Use when inputting  
additional characters after  
the list is displayed.)

Routing

House phone  
number, and  
other input

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** Touch the map to set the cursor to the desired destination. The map scrolls faster the further away the touched location is from the cursor.

Scroll the map and change the map scale if necessary.



**2** Select **Set as**



**3** Select **Destination**

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

Select **Way Point** (Way point) to set the address as a way point on your route (page 36). You can set up to 5 way-points per trip.

**4** Select **Guide**

Route guidance begins using displayed route.

### Note

- If your desired route cannot be found, **Route opt.** (Route Options) allows the route option settings to be changed. (page 32)
- Selecting **Guide** for five seconds or more will launch the Demo mode.

Operate after Step 3 of [Direct Destination Input]

## Selecting Route

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

**5** Select **Info. (Information)**. Details regarding the individual routes (i.e., required time total distance, roads used, etc.)


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


INFO FOR 3 ROUTES			
	Quick	Altern.	Short
Time	0h 3m	0h 4m	0h 3m
Distance	1.7 miles	2.1 miles	1.7 miles
Roads	0.0 miles	0.0 miles	0.0 miles
Tolls	0.0 miles	0.0 miles	0.0 miles
Fuel	0.0 miles	0.0 miles	0.0 miles
Cost	0.0 miles	0.0 miles	0.0 miles


# POI Icons on Maps / Delete Destination


## n POI (Point of Interest) Icons


The following are POI icons shown on maps.


**Restaurant**


All restaurants


American


Chinese


Continental


Fast Food


French


Italian


Japanese


Mexican


Seafood


Thai


Other Restaurants


**Shopping**


Grocery Store


Shopping Mall


**Automotive**


Automobile Club


Gas Station


Parking


Auto Service & Maintenance


**Travel**


Bus Station


Ferry Terminal


Hotel


Rental Car Agency


Rest Area


Train Station


Airport (All Aearch Areas)


**Recreation**


Casino


Golf Course


Historical Monument


Marina


Museum


Ski Resort


Sports Complex


Performing Arts


Tourist Attraction (All Search Areas)


Tourist Information


Winery


Amusement Park (All Search Areas)


**Community**


Convention Center


Court House


Government Offices


Higher Education


Hospital


Library


Park & Recreation (All Serch Areas)


Police Office


School


City Center

**Banking**

Bank

ATM

**Other**

Business Facility

Delete destination

MENU

→

Select

Cancel Guidance

→

Select

Yes



# Route Options

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

Before Steps **MENU** → select  Route Options

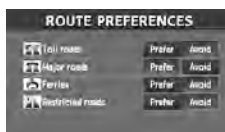
## Route Preferences

Open the [ROUTE OPTIONS] Menu



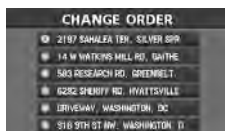
Select

 Route Preferences



Select

 Destination & Way Points



Select the button for the location to be modified.

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

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

## Modification of Destination or Way Point Positions

## Deletion of Destination or Way Points

## Detour

Select

 Detour



Select

 Turn List



The Enter Route screen appears.

## Turn List



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

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

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

The route will not necessarily follow the specified conditions.

Select **Chg Loc** → Move to location and then (Change select **OK** Location).

Shows the map for the destination/way points.

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

Select **Delete** → **Yes** :

**No** :Cancel the deletion

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

**Whole Route**

Searches the detour routes at one, three, and five miles from the present position to the selected routes. (Display range varies according to the set distance of the selected route.)

**Whole Route** searches the route that detours from the present position for all routes.

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

**Yes** :

**No** :Cancel the setting

NAVI

Guide

NAVI

Guide

NAVI

NAVI

Guide

# Route Options

Before Steps **MENU** → select  Route Options

Display  
Preview

Open the  
[ROUTE  
OPTIONS] Menu



Select  Display Route










Select **Route Preview**

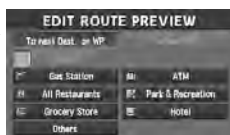


Route  
Preview


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

-  : Move the start point.
-  : Carry out a simulation run in the direction of the start point. When the Simulation starts the button will be displayed as  , and when selected, it will cause the Simulation to advance quickly.
-  : Stop the simulation run.
-  : Carry out a simulation run in the direction of the destination. When the Simulation starts the button will be displayed as  , and when selected, it will cause the Simulation to advance quickly.
-  : Move to the destination.


**Edit** : Displays the EDIT ROUTE PREVIEW screen.



 : Stops at the destination or the next way-point.

 : Stops at a point of interest which has been setup on the route.


 : 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,  can be selected to display items other than shown here. For more details, refer to page 45.

RTN

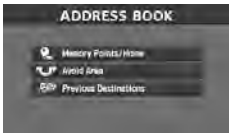
# Address Book

| You can, edit, or delete any marked point.

Before Steps **MENU** → select  Address Book

Memory Point Storage

Open the [ADDRESS BOOK]



Select



Memory Point Confirmation and Modification

Preset Destinations or Home Storage

Memory Point Deletion

All Memory Point Deletion

Displays Icons at Memory Points



Show all icon

☐ On or ☐ Off

Address Book

→ **Set a memory point using your preferred method.**

→ **Select a memory point to be modified**

**Icon** : Allows the display icon to be selected. Page 1 and 2 contain standard icons, whereas the With Sound page contains icons which also playback sounds. (With direction icon function) The beep alert only activates when the vehicle approaches to within about 500m of the memory point from the set direction.

→ **Name** : Allows the name to be changed. When editing has been completed, select **OK**. Furthermore, select **On** to display names on the map, or **Off** if these names are not to be displayed.

→ **Position** : Allows memory points to be checked and modified on the map screen. After checking.

→ **OK**

→ **Tel.** : Allows the telephone number to be modified. When editing has been completed, select **OK**.

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

→ **Category** : Allows the storage category to be changed. Select the button corresponding to the new category.

→ **Preset Destinations** : Changes the category to Preset Destinations

→ **Home** : Changes the category to Home

→ **Select a memory point to be deleted.**


→ **Yes**

→ **No** : Cancel the deletion.

→ **Yes**

→ **No** : Cancel the deletion.

# Address Book

Before Steps **MENU** → select  Address Book

Avoid Area  
Storage

Open the  
[ADDRESS  
BOOK]

Avoid Area  
Confirmation  
and  
Modification



Select

 Avoid Area

Avoid Area  
Deletion

All Avoid  
Area  
Deletion

Category  
Name  
Modification

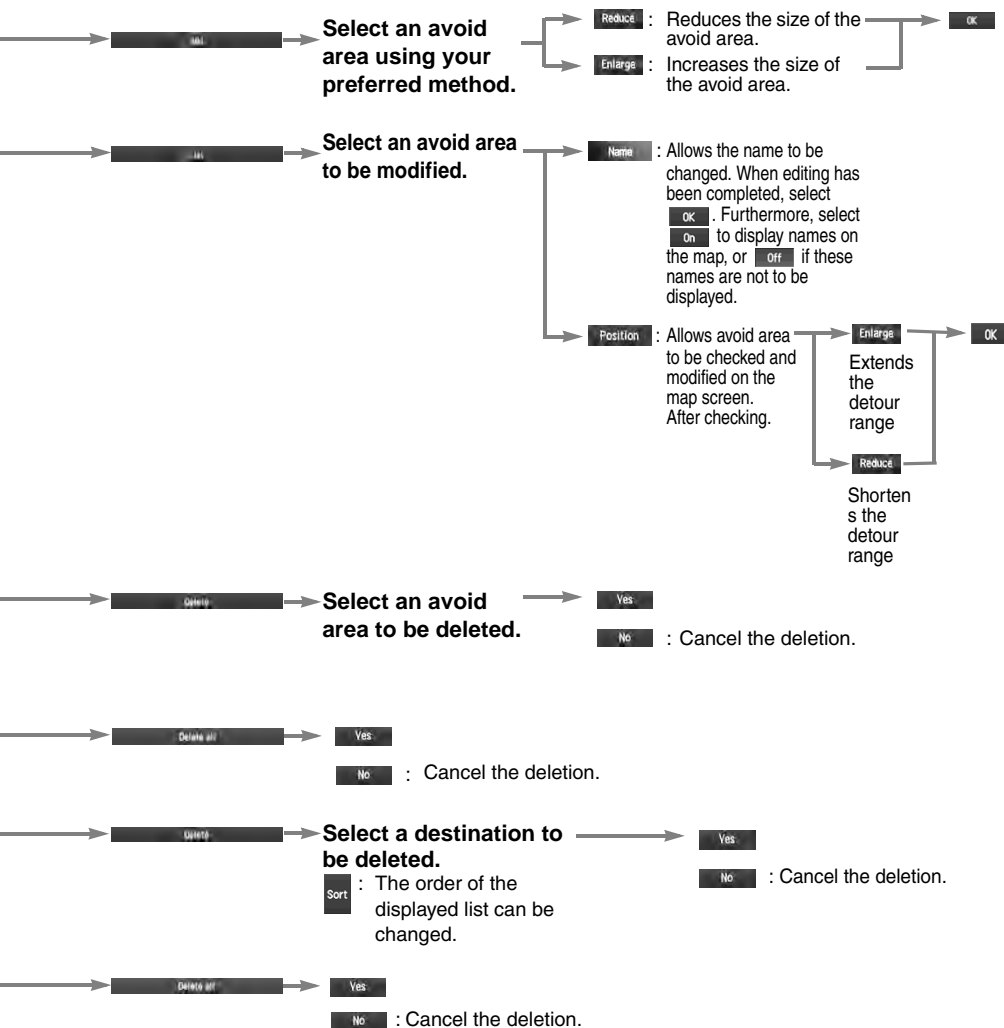
Previous  
Destination  
Deletion

All Preset  
Destination  
Deletion

Select

 Preset Destinations

Address Book





# Voice Recognition

Voice control can be carried out by simply Pressing TALK switch on the steering wheel switch and using a voice command (page 41) spoken into the microphone.

## Voice Recognition Structure

### I Microphone surface Voice entry recognition.



### I TALK switch on the steering wheel switch Use for switching to voice recognition or canceling.



## Voice Recognition

## Language Select

Set up the language in advance.

- 1 Press **MENU**
- 2 select →  
select → select
- 3 Select your preferred language from the list.

#### Note

To return to current position screen, press **NAVI**.

## Basic Usage Pattern

- 1 Press TALK switch on the steering wheel switch.
- 2 Speak the desired voice command.

## Cancel Voice Recognition

- 1 Long press TALK switch on the steering wheel switch. (Press it more than 0.7 second.)

## Avoiding Voice Recognition Errors.

Read the notes listed below to allow the Voice Recognition function to recognize your voice properly.

- 1 Speak a voice command clearly.
- 1 Keep yourself in a safe driving position. Do not face or approach the microphone to make your voice command recognizable.  
Voice recognition may fail to recognize your command due to voice tone. If this happens, change the tone of your voice by speaking more loudly and clearly.
- 1 Keep the inside of the vehicle quiet when making a voice command. Your command may be compromised by noises made by people, blinkers, the horn, vehicle vibration, and noises from outside the vehicle.
- 1 Use the language you selected in voice recognition.

Please be aware that the voice recognition may error or not function despite following the above points.

## Voice Recognition Command

The following voice commands can be used with voice control.

Shortcut Commands
[Show] <b>Current</b> (Position/Location)
[Show] <b>Map</b>
<b>Repeat</b> [Voice] [Guidance]
<b>Cancel</b>
Map Operation Commands
<b>Zoom In</b>
<b>Zoom Out</b>
<b>Zoom In Maximum</b>
<b>Zoom Out Maximum</b>
<b>Right Map Zoom In</b>
<b>Right Map Zoom Out</b>
<b>Right Map</b> (Zoom In Maximum/Minimum Scale)
<b>Right Map</b> (Zoom Out Maximum/Maximum Scale)
[Change to/Show] <b>North up</b> [Mode]
[Change to/Show] <b>Heading up</b> [Mode]
[Change] <b>Map Direction</b>
<b>Right Map</b> [Change to/Show] <b>North up</b> [Mode]
<b>Right Map</b> [Change to/Show] <b>Heading Up</b> [Mode]
<b>Right Map</b> [Change Map] <b>Direction</b>
[Show/Change to] <b>Dual Map</b> [Mode]
[Show/Change to] <b>Single Map</b> [Mode]
(Store/Mark) [This Point]
POI Display Commands
<b>Automobile Club</b>
<b>Gas Station/Gas</b>
<b>Parking/Parking Lot/Parking Garage/Car Park</b>
<b>Auto Service &amp; Maintenance/Auto Service</b>
<b>ATM</b>
<b>Bank</b>
<b>Town Center/City Center</b>
<b>Convention Center/Exhibition Center</b>
<b>Court House</b>
<b>Government Offices</b>
<b>Higher Education/University/College</b>
<b>Hospital</b>
<b>Library</b>
<b>Parks &amp; Recreation/Park &amp; Recreation</b>
<b>Police Station</b>

<b>School</b>
<b>Amusement Park</b>
<b>Casino</b>
<b>Golf Course</b>
<b>Historical Monument</b>
<b>Marina</b>
<b>Museum</b>
<b>Ski Resort/Skiing</b>
<b>Sports Complex/Stadium</b>
<b>Performing Arts</b>
<b>Tourist Attraction</b>
<b>Tourist Information</b>
<b>Winery</b>
<b>Restaurant/I'm Hungry/Show Restaurant</b>
<b>American Restaurant/American Food</b>
<b>Chinese Restaurant/Chinese Food</b>
<b>Continental Restaurant/Continental Food</b>
<b>Fast Food/Fast Food Restaurant</b>
<b>French Restaurant/French Food</b>
<b>Italian Restaurant/Italian Food</b>
<b>Japanese Restaurant/Japanese Food</b>
<b>Mexican Restaurant/Mexican Food</b>
<b>Seafood Restaurant/Seafood</b>
<b>Thai Restaurant/Thai Food</b>
<b>Other Restaurant/Other Food</b>
<b>Grocery Store</b>
<b>Shopping Mall</b>
<b>Airport</b>
<b>Bus Station</b>
<b>Ferry Terminal</b>
<b>Hotel</b>
<b>Rental Car Agency</b>
<b>Rest Area</b>
<b>Train Station</b>
<b>Business Facility</b>
<b>POI Off</b>
Destination Operation Commands
[Go] <b>Home</b>
<b>Enter Destination</b>
<b>Add to Waypoint</b>

(Go to/Previous) Starting Point
[Go to] <b>Previous Destination</b>
[Go to] <b>Preset Destination</b> [Number] 1
[Go to] <b>Preset Destination</b> [Number] 2
[Go to] <b>Preset Destination</b> [Number] 3
[Go to] <b>Preset Destination</b> [Number] 4
[Go to] <b>Preset Destination</b> [Number] 5
<b>Cancel</b>
Guidance Commands
<b>Louder</b>
<b>Softer</b>
[Show] (Whole/Entire) <b>Route</b> [Map]
[Show] <b>Next Way Point</b> [Map]
<b>Show First Way Point</b> [Map]
<b>Show Second Way Point</b> [Map]
<b>Show Third Way Point</b> [Map]
<b>Show Fourth Way Point</b> [Map]
<b>Show Fifth Way Point</b> [Map]
<b>Show Destination</b> [Map]
(Delete/Cancel) <b>Next Way Point</b>
<b>Yes</b>
<b>No</b>
(Delete/Cancel) <b>Destination</b>
(Delete/Cancel) <b>All Way Points and Destination</b>
<b>Voice Guidance Off</b>
<b>Voice Guidance On</b>
<b>Quick</b>
<b>Alternative</b>
<b>Short</b>
<b>Detour</b>
<b>Detour Entire Route</b>
[Change to] <b>Arrow</b> (Guide/Guidance)
[Change to] <b>Turn List</b> (Guide/Guidance)
[Change to] <b>Freeway</b> (Guide/Guidance)
[Change to] <b>Intersection</b> (Guide/Guidance)
Display Commands
<b>display</b> [set] <b>day</b> [mode]
<b>display</b> [set] <b>night</b> [mode]
<b>display</b> [set] <b>auto</b> [mode]

( ): Indicates the commands to be the object of “/”

[]: Recognizes without saying the command in “[]”

“/”: Recognizes when saying either commands before and after “/”

# Volume Adjustment

You can adjust the volume control for the voice guidance.

Before Steps

**MENU**

→ select

 Volume

## Open the [VOLUME] screen



1

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

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

2

Press the **(NAVI)** button to return to the current vehicle position screen.

# MEMO



Voice Recognition

# 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.

Before Steps

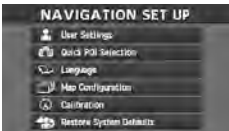
**MENU**

→ select

 Navigation Set Up

Open

**[NAVIGATION SET UP]**



 User Settings (  page 45)

 Quick POI Selection (  page 47)

 Language (  page 51)

 Map Configuration (  page 52)

 Calibration (  page 48)

 Restore System Defaults (  page 50)

**MENU** → select  Navigation Set Up

Before Steps

→ select  User Settings

Open the  
[USER SETTINGS]  
screen



### Map Color

Map Color 1 2 3

Select a screen color from 1 to 3 options.

### Map Mode

Map Mode Auto Day Night

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

### Distance

Distance km Miles

Select the distance unit from km or Miles .

### Average speed

Average Speed Change speed

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



← → Average speed setting

Default :Changes back to default

### Road Restriction Warnings

Road Restriction Warnings On Off

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





Open the  
[USER SETTINGS]  
screen



→ n **Arrival Time**





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

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

→ n **Keyboard layout**



The layout of input keys can be selected as  or .

→ n **Clock**



Allows selection of whether clock is to be displayed.  
When the time display setting is switched on in the "USER SETTINGS" screen on the navigation screen, the time will be displayed on the SETTINGS, SOUND, LOAD/EJECT, and DISPLAY MODE screens.

→ n **Beep**




Allows selection of whether beep will sound.

# Navigation Set Up


## Quick POI Selection

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

1

MENU → select  Navigation Set Up

2

Select  Quick POI Selection

### Open the [QUICK POI SELECTION] screen



Select the button for Quick POI storage.

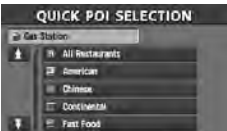
#### Note

Select the category to be changed  
**Default** : This button allows you to restore the factory settings.



#### Select a category.

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



Select the subcategories to be displayed on the map.

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



# Navigation Set Up

## Calibration

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


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

### Adjusting Current Position and Direction



select **Position / Direction**

Open the [Calibrate Position] screen



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



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.

select **Distance**

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

select  Calibration



## Set Clock



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

select 

Open the [SET CLOCK] screen



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

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

How to exit .

## Map Version

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

select 

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.

Before Steps

MENU

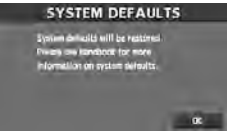
→ select

Navigation Set Up

→ select

Restore System Defaults

## Open the [SYSTEM DEFAULTS] screen



Select .

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

## [Default List]

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

# Navigation Set Up

Language

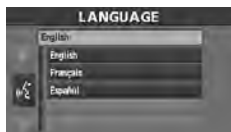
You can change the language of the menu and the voice guidance.

**MENU** → select  Navigation Set Up

**Before Steps**

→ select  Language

**Open the [LANGUAGE] screen**



Select your preferred language from the list.

# Navigation Set Up

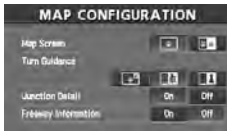
## Map Configuration

**MENU** → select Navigation Set Up

Before Steps

→ select Map Configuration

Open the  
[MAP  
CONFIGURATION]  
screen



### Map Screen

Map Screen

Select single or dual map display.

#### Single map



#### Dual map



### Turn Guidance

Turn Guidance

#### 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.

### 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.

### Junction Detail

Junction Detail

Select whether the Enlarged Junction diagram screen is displayed automatically.

### Freeway Information

Freeway Information

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

# Precautions/System Performance

## Voice Guidance

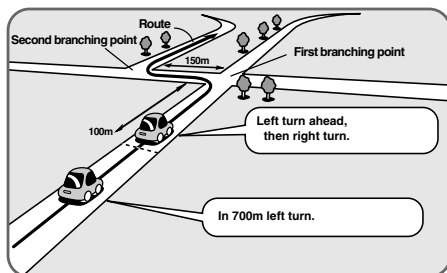


- | The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable at times to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting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

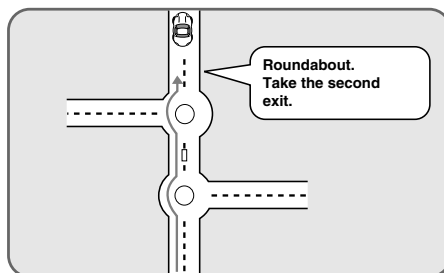
**Voice guidance has the following functions:**

### n 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.



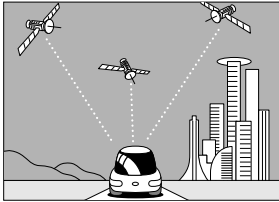
When two intersections are close together, the voice guidance may be late.



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

If necessary

## GPS

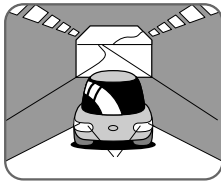


**GPS is a position detecting system utilizing the signals from GPS satellites deployed by the U.S. Department of Defense. The Mobile Navigation System uses input from three or more satellites and calculates the vehicle position based on the principle of triangulation.**

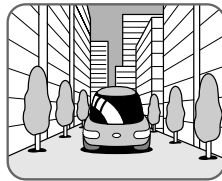
**The positioning accuracy of the system corresponds to the error display of the GPS which is from about 30 to 200 meters.**

- 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.

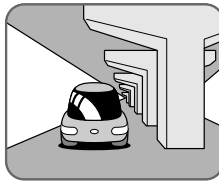
### GPS signal reception is poor in the following places



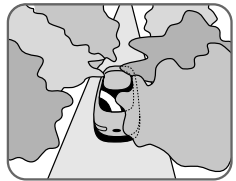
In tunnels



Among high-rise buildings



Under elevated roads



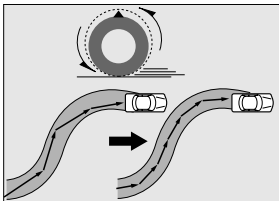
In wooded areas

- 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

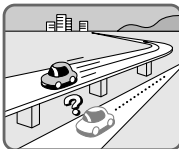
A gyro detects turns with an accuracy of 0.05° per second. Combined with a speed sensor, it enables the system to display the current vehicle position even where GPS signals may be blocked.

- 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.

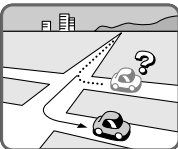
# Precautions/System Performance

## 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.



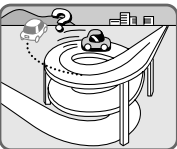
Running on an elevated road



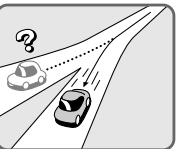
Making a turn after driving on a long straight road



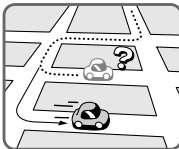
Running on a steep mountain road



Running on a spiral road



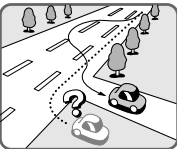
Entering an intersection where a road branches off at a small angle



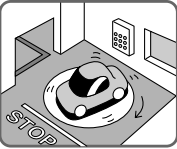
Running on gridiron layout of roads



Running on a slippery road with tire chains



Snaking on a wide road



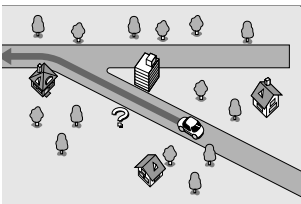
When your vehicle is on a turntable with the ignition turned off



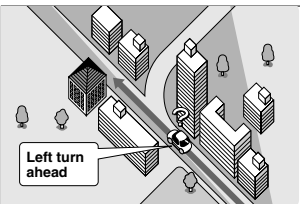
After getting off a ferryboat or vehicle train

## Route Guide

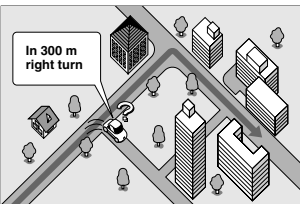
Although you may encounter the following problems in route guide, there is nothing wrong with the system.



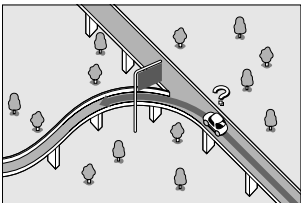
For certain intersection shapes, the upcoming turn or the name of the intersection may not be announced.



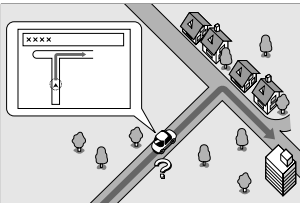
For certain intersection shapes, you may be prompted to turn right or left When you should actually stay on the same road.



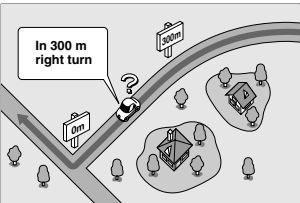
Voice guidance for the planned route may continue even after you have deviated from that route such as having turned too early.



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.

If necessary

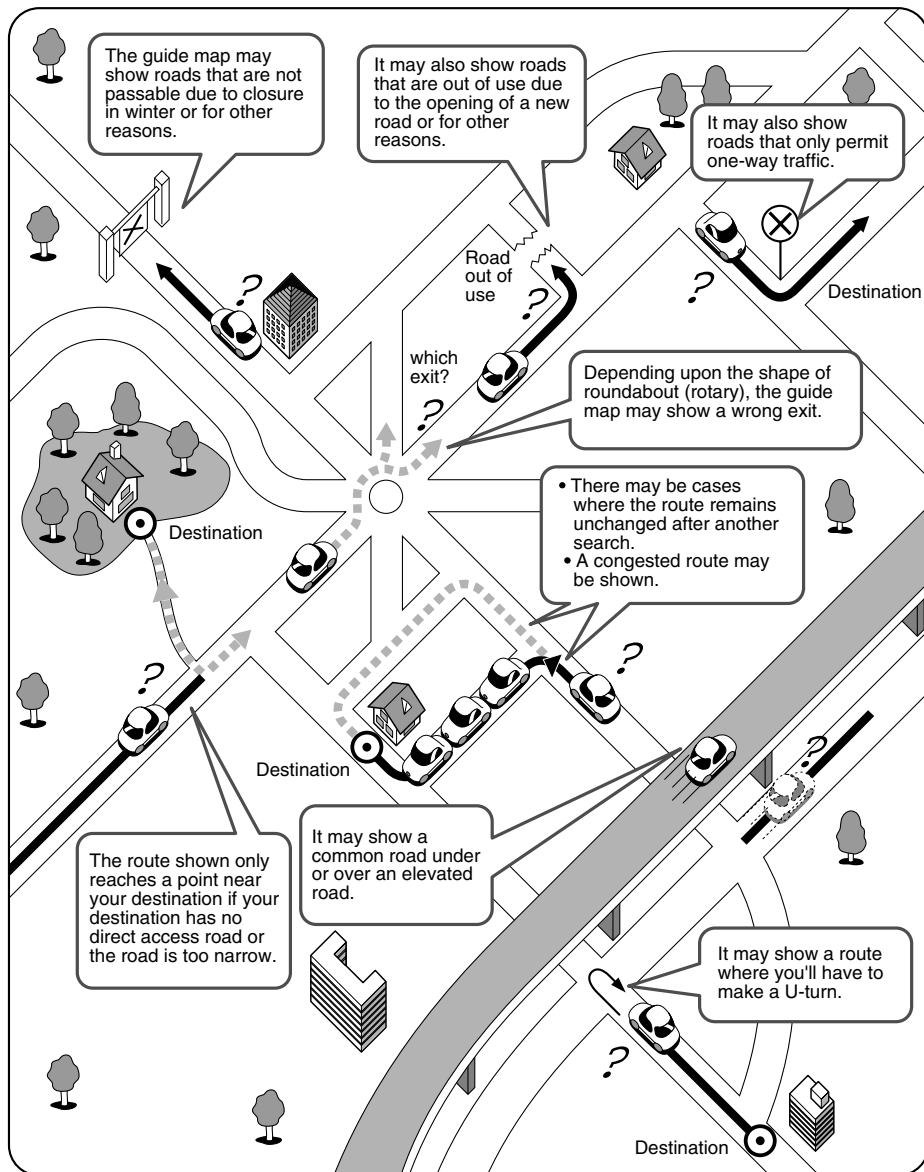




The navigation system is just a support system for the driver. The driver should always pay attention to the traffic situation to safely make decisions. You may be unable to arrive at your destination due to out-of-date information on a map disc. You should be especially careful when selecting an urgent 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 Expert Dealer, we recommend 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 blown.<ul style="list-style-type: none"><li>➡ Consult an Expert Dealer, we recommend an Authorized Mazda Dealer.</li></ul></li></ul>
Display does not open or close	<ul style="list-style-type: none"><li>Check if the voltage level of the vehicle battery is low.<ul style="list-style-type: none"><li>➡ Recharge the battery or change batteries.</li></ul></li></ul>
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.<ul style="list-style-type: none"><li>➡ Drive the vehicle for a while where you are receiving GPS signals.</li></ul></li></ul></li></ul>

If necessary

Symptom	Check point
No GPS symbols are displayed	<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>
The vehicle position is not displayed	<ul style="list-style-type: none"> <li>Check if the mode is set to the current position screen. <ul style="list-style-type: none"> <li>➡ Press <b>NAVI</b></li> </ul> </li> </ul>
No voice guidance	<ul style="list-style-type: none"> <li>Check if the volume control for the voice guidance has been turned off.</li> <li>Check if the vehicle is off the route. <ul style="list-style-type: none"> <li>➡ Repeat the route search while checking the route guide screen.</li> </ul> </li> <li>Check if you are driving the vehicle in the wrong direction on the route. <ul style="list-style-type: none"> <li>➡ Repeat the route search checking the direction of the destination.</li> </ul> </li> </ul>
Buttons on the remote control do not beep	<ul style="list-style-type: none"> <li>Check if [Beep] is set to [Off] (  page 46).</li> </ul>

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

# Maintenance

## Care of the Product

### n **Cleaning this product**

Use a dry, soft cloth to wipe it.

### n **Cautions for cleaning**

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

### n **Map disc**

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

## Handling and Care of Map Discs

### n **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.

### n **Disc Cleaning**

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

Label side



<Right>



<Wrong>

### n **Do not leave discs in the following places:**

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

# Contents

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## Audio System

n Audio Operation	
Operating Tips for Audio system .....	62
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(Power ON/OFF), (Volume adjustment), (Audio sound adjustment), (Sound quality adjustment), (Volume balance adjustment), (AudioPilot), (Centerpoint)	
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(Radio ON), (Band selection), (Tuning), (Manual tuning), (Seek tuning), (Scan tuning), (Preset channel tuning), (Auto memory tuning), (Audio Sound Adjustment), (Satellite Radio (SAT))	
Operating the In-Dash CD Changer .....	69
(Inserting the CD), (During CD playback), (During MP3 CD playback), (Normal insertion), (Inserting CDs into desired tray number), (Multiple insertion), (Normal ejection), (Ejecting CDs from desired tray number), (Multiple ejection), (Playing), (Fast-forward/Reverse), (Track search), (Disc search), (Folder search (during MP3 CD playback)), (Music scan), (Repeat play), (Audio sound adjustment), (Operating Tips for Audio Contorol Switch), (Safety Certification)	

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# Audio Operation

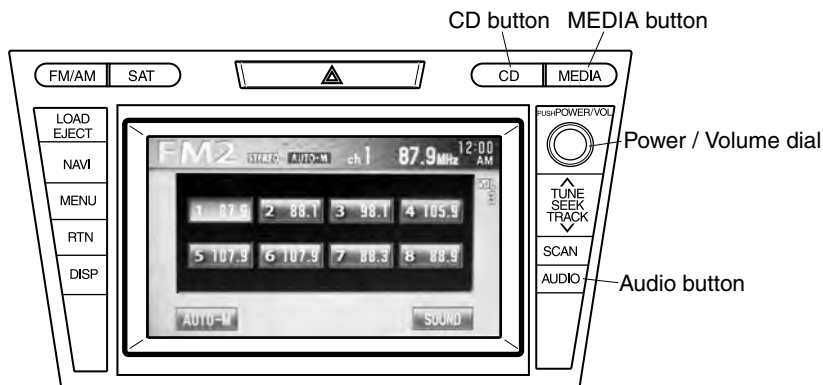
## Operating Tips for Audio system

Refer to "Operating Tips for Audio system (Sec. 06)".

## Operating Tips for Display

- n **Do not place any objects on the dashboard. If you drop any objects onto the dashboard or spill liquid on it, it may result in system malfunction.**
  - n **To protect the liquid crystal display, close it when it is not used.**
  - n **Be careful not to pinch your hands or fingers when the liquid crystal display is closed.**
  - n **Do not open/close the liquid crystal display manually. It may damage the equipment.**
- 
- | The liquid crystal display may not open if the power supply had been interrupted due to the vehicle battery being disconnected.
  - | If the liquid crystal display stays open/closed (or partly opened) and does not move when the liquid crystal display is pressed, turn the ignition switch and then on again. Then try the open/close operation again. If the liquid crystal display still does not move, contact an Authorized Mazda Dealer.

## Power/Volume/Sound Controls



### n Power ON/OFF

Turn the ignition switch to the ACC or ON position.

Press the power/volume dial to turn the audio system on.

Press the power/volume dial again to turn the audio system off.

#### Note

To prevent the battery from being discharged, do not leave the audio system on for a long period of time when the engine is not running.

### n Volume adjustment

To adjust the volume, turn the power/volume dial.

Turn the power/volume dial to the right to increase volume, to the left to decrease it.



## n Audio sound adjustment

1. Press the desired button corresponding to one of the following modes.



- Audio button (AUDIO): Audio mode
- CD button (CD): CD mode
- MEDIA button (MEDIA): Image and Sound playback is possible using a portable video player connected to an external input terminal.\*

2. Select the (SOUND) on -screen button to display the sound adjustment screen.





## n Sound quality adjustment

### TREB (treble sound)



Select the  on-screen button to increase treble, and  to decrease.

### BASS (low pitch sound)



Select the  on-screen button to increase bass, and  to decrease.

## n Volume balance adjustment

### Front/back volume balance

Select the FRONT on-screen button  to increase the volume at the front, and REAR  to increase the volume to the back.

### Left/right volume balance

Select the RIGHT on-screen button  to increase the volume to the right, and LEFT  to increase the volume to the left.

\*The external input terminal is not equipped on your vehicle because it is not standard equipment.

**Note**

- Pressing an on-screen adjustment button for 0.5 seconds or more progressively changes the adjustment range towards +/-, up/down, or left/right.
- While an adjustment button is selected in this manner, the level indicator will momentarily stop at the medium range position and a beep sound will be heard before proceeding.

**Note**

- Select the **RESET** on-screen button to reset bass, treble, and balance.
- To return to the previous screen, select the **OK** on-screen button.

**n \*1AudioPilot**

AudioPilot automatically adjusts audio volume and sound quality in accordance with the level of noise entering the vehicle interior while driving. When AudioPilot is turned ON, the system automatically calculates the conditions for optimum hearing of sound which may be difficult to hear depending on exterior noise.

Each time the **AudioPilot** on-screen button is selected, the Audio Pilot turns on and off.

\*1 AudioPilot is a registered trademark of BOSE Corporation.

**n \*2Centerpoint****Centerpoint**

Centerpoint offers you the experience of five-channel surround sound in your vehicle even with your conventional two-channel stereo CDs.

Turn up the volume to enhance the surround sound effect, or down to lessen it.

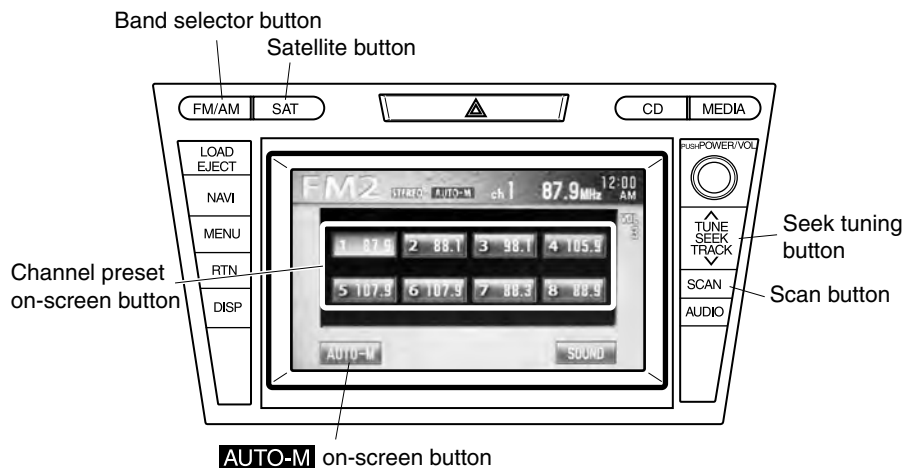
Indication	Volume change
<b>CENTERPT OFF</b>	No change
<b>CENTERPT MIN</b>	Minimum
<b>CENTERPT LOW</b>	Low
<b>CENTERPT MID</b>	Medium
<b>CENTERPT HI</b>	High
<b>CENTERPT MAX</b>	Maximum

**Note**

Centerpoint is only available in CD mode. Centerpoint is not available for AM or FM broadcasts.

\*2 Centerpoint is a registered trademark of BOSE Corporation.

## Operating the Radio



### n Radio ON

Press a band selector button (FM/AM) to turn the radio on.

### n Band selection

Successively pressing the band selector button (FM/AM) switches the bands as follows:  
FM1 → FM2 → AM.

The selected mode will be indicated. If FM stereo is being received, STEREO will be displayed.

### n Tuning

The radio has the following tuning methods: Manual, Seek, Scan, Preset channel, and Auto memory tuning. The easiest way to tune stations is to set them on preset channels.



#### Note

- | If the FM broadcast signal becomes weak, reception automatically changes from STEREO to MONO for reduced noise, and the STEREO indicator will go out.
- | To clear the information, press the NAVI button.
- | If the power supply is interrupted (fuse blows or the battery is disconnected), the preset channels will be canceled.

## n Manual tuning

Pressing the seek tuning button will change the frequency higher or lower.

## n Seek tuning

Pressing and holding the seek tuning button ( ,  ) will cause the tuner to seek a higher or lower frequency automatically.

### Note

If you continue to press and hold the button, the frequency will continue changing without stopping.

## n Scan tuning

Press the (SCAN) button to automatically sample strong stations.

Scanning stops at each station for about 5 seconds. To hold a station, press the (SCAN) button again during this interval.

## n Preset channel tuning

The 8 preset channels can be used to store 8 AM and 16 FM stations.


1. To set a channel first select AM, FM1, or FM2. Tune to the desired station.
2. Select any channel preset on-screen button for about 2 seconds until a beep sound is heard. The selected preset channel number and station frequency will be displayed. The station is now held in the memory.
3. Repeat this operation for the other stations and bands you want to store. To tune one in the memory, select AM, FM1, or FM2 and then press its channel preset button. The station frequency and the channel number will be displayed.

### Note

If the power supply is interrupted (fuse blows or the battery is disconnected), the preset channels will be canceled.

## n Auto memory tuning

This is especially useful when driving in an area where the local stations are not known. Additional AM/FM stations can be stored without disturbing the previously set channels.

Select and hold the  on-screen button for about 2 seconds until a beep sound is heard; the system will automatically scan and temporarily store up to 8 stations with the strongest frequencies in each selected band in that area.

## n Audio Sound Adjustment

Refer to "Power/Volume/Sound Controls"

## n **Satellite Radio (SAT)**

Vehicles equipped with the separately purchased SIRIUS digital satellite radio unit have the ability to receive up to 100 channels of digital quality programming coast to coast via satellite. For information on use, read the Satellite Radio Kit manual accompanying the SIRIUS digital satellite radio unit. A subscription to SIRIUS digital satellite radio service is required (available in the U.S. - Except Alaska and Hawaii) to enable this feature once the separately purchased SIRIUS digital satellite radio unit has been installed. For subscription information or digital satellite radio technical issues contact SIRIUS directly at:

-Web: [www.siriusradio.com](http://www.siriusradio.com)

-Phone (24 hrs/day, 7 days/week): 888-539-SIRI (7474)

-E-mail: [customercare@sirius-radio.com](mailto:customercare@sirius-radio.com)

-Mailing Address: Sirius Satellite Radio

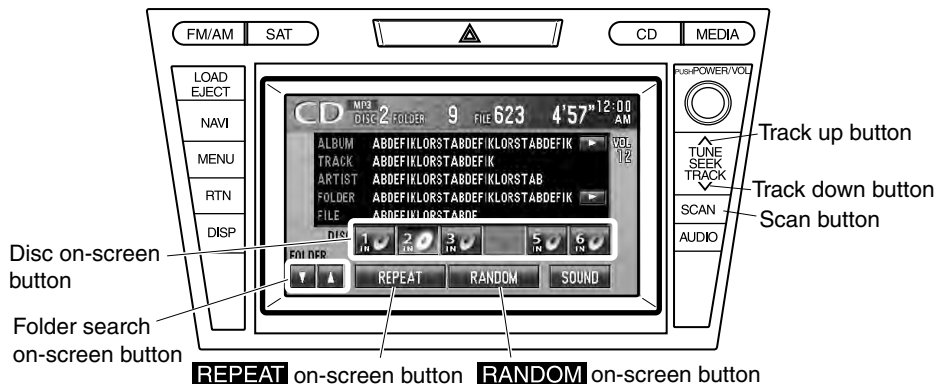
1221 Avenue Of The Americas

New York, NY 10020

Attention: Customer Care

Include your Sirius Radio ESN (Electronic Serial Number) when subscribing or requesting technical assistance. See the Satellite Radio Kit manual accompanying the SIRIUS unit for complete satellite radio activation procedures and information on how to display the ESN#.

## Operating the In-Dash CD Changer



### n Inserting the CD

The display must be open (lowered) to insert the CD.

The CD must be label-side up when inserting. The auto-loading mechanism will set the CD and begin play. There will be a short lapse before play begins while the player reads the digital signals on the CD.

#### Note

"IN" is displayed on the tray number for a CD that is inserted.

### n During CD playback

The disc title, the track title, and the artist name will be displayed.

### n During MP3 CD playback


The album title, the track title, the folder name, the file number, and the artist name will be displayed.

#### Note

The CD will begin playback automatically after insertion. A CD cannot be inserted while the display reads "WAIT".




## n Normal insertion

1. Press the (LOAD/EJECT) button.
2. Press the  on-screen button lightly.  
The display opens and "WAIT" is displayed.
3. Lightly insert the CD after "IN" is displayed. The CD will be inserted and played automatically after the display is closed.

### Note

- | A CD cannot be inserted while "WAIT" is displayed. Wait until "IN" is displayed.
- | The CD loading operation cancels 15 seconds after "IN" is displayed or if the (LOAD/EJECT) button is pressed again.

## n Inserting CDs into desired tray number


1. Press the (LOAD/EJECT) button.
2. Press the desired tray number, then press the  on-screen button lightly.  
The display opens and "WAIT" is displayed.

### Note


The CD loading operation cancels if no button is pressed for about 30 seconds after the desired tray number is pressed, or if the (LOAD/EJECT) button is pressed again.

3. Lightly insert the CD after "IN" is displayed. The CD will be inserted and played automatically after the display is closed

### Note

- | The CD loading operation cancels 15 seconds after the  on-screen button is pressed or the (LOAD/EJECT) button is pressed again.
- | The CD cannot be inserted to the desired tray number if it is already occupied.


## n Multiple insertion

1. Press the (LOAD/EJECT) button.
2. Press the  on-screen button for 1.5 seconds or more.  
The display opens and "WAIT" is displayed.
3. Lightly insert the CD after "IN" is displayed.
4. When "IN" is displayed again, insert the next CD.  
Repeat this procedure for the number of CDs to be inserted (maximum of 6 including the CD in the tray).  
The CD will begin playback automatically after insertion and the display closes.

### Note

The CD loading operation cancels 15 seconds after "IN" is displayed, or the (LOAD/EJECT) button is pressed again.


## n Normal ejection

1. Press the (LOAD/EJECT) button.
2. Press the  on-screen button lightly.
3. The CD ejects after the display is opened and the desired tray number flashes.
4. The display closes automatically after the ejection is fully completed.


### Note

If the CD is not removed from the slot within 15 seconds, it will be re-inserted. When this happens, or if the (LOAD/EJECT) button is pressed again, the CD ejecting operation will be canceled.

## n Ejecting CDs from desired tray number


1. Press the (LOAD/EJECT) button.
2. Press the desired CD tray number, then press  on-screen button lightly.

### Note


The CD ejecting operation cancels if the  on-screen button is not pressed for about 30 seconds after the desired tray number is pressed, or if the (LOAD/EJECT) button is pressed again.

3. The CD will be ejected automatically after the display is opened and the desired tray number flashes.

### Note

- l If only one CD is inserted in the tray, the display opens and the CD is ejected without pressing  on-screen button.
  - l If the CD is not removed from the slot within 15 seconds or if the (LOAD/EJECT) button is pressed, the CD ejecting operation will be canceled.
4. The display closes after the CD is ejected.

## n Multiple ejection

1. Press the (LOAD/EJECT) button.
2. Press the  on-screen button for 1.5 seconds or more.  
The CD ejects after the display is opened and the desired tray number flashes.
3. Pull out the CD.
4. The next CD will be ejected automatically.  
This operation repeats until all the CDs are taken out.

### Note

If the CD is not removed from the slot within 15 seconds or if the (LOAD/EJECT) button is pressed, the CD ejecting operation will be canceled.



## n Playing

Press the (CD) button to start play when a CD is in the unit.

If there is no CD in the unit when the (CD) button is pressed, "NO DISC" will flash on and off.

The song information will be displayed during playback.

### Music CD




### MP3 CD





#### Note

- | "-----" will be displayed for files without a file, track or other name input.
- | This unit can read English (including numerals), French, and Spanish one-byte characters.
- | The displayable number of characters on each title is a maximum of 64.

Select the  on-screen button if the whole title cannot be displayed at one time. The screen changes to display the rest of the characters.


### n **Fast-forward/Reverse**

Press the track up button (  ) to advance through a track at high speed until a beep sound is heard.

Press the track down button (  ) to reverse through a track at high speed until a beep sound is heard.

### n **Track search**

Press the track up button (  ) once to skip forward to the beginning of the next track.

Press the track down button (  ) once to skip back to the beginning of the current track.

### n **Disc search**

To change the disc, press any DISC on-screen button during playback.

### n **Folder search (during MP3 CD playback)**

To change to the previous folder, select the  on-screen button, or select the  on-screen button to advance to the next folder.

### n **Music scan**

This feature helps to find a program by playing about the first 10 seconds of each track.

Press the (SCAN) button during play to start scan play operation (the track number will flash).


Press the (SCAN) button once again to cancel scan play.

#### **Note**

If the unit is left in scan, normal play will resume where scan was selected.


## n Repeat play

### During music CD playback


1. Select the  on-screen button during playback to play the current track repeatedly.
2. Select the button again to cancel the repeat play.

### During MP3 CD playback

#### (Track repeat)

1. Select the  on-screen button during playback to play the current track repeatedly.
2. To cancel the repeat play, select the button again after 3 seconds.


#### (Folder repeat)

1. Select the  on-screen button during playback, and then select the button again within 3 seconds to play the tracks in the current folder repeatedly.
2. Select the button again to cancel the repeat play.

## Random play


Tracks are randomly selected and played.

### During music CD playback


1. Select the  on-screen button during playback to play the tracks on the CD randomly.
2. Select the button again to cancel the random play.

### During MP3 CD playback

#### (Folder random)

1. Select the  on-screen button during playback to play the tracks in the folder randomly.
2. To cancel the random play, press the button again after 3 seconds.

#### (CD random)

1. Select the  on-screen button during playback, and then select the button again within 3 seconds to play the tracks on the CD randomly.
2. Select the button again to cancel the random play.

## n Audio sound adjustment

Refer to “Power/Volume/Sound Controls”.

## n Operating Tips for Audio Control Switch

Refer to “Audio Control Switch Operation (Steering Wheel) (Sec. 06)”.

## n **Safety Certification**

This CD player is made and tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.



- | This CD player should not be adjusted or repaired by anyone except qualified service personnel.  
If servicing is required, contact an Authorized Mazda Dealer.
- | Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser exposure. Never operate the CD player with the top case of the unit removed.
- | Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### **Note**

For CD player section:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### **Note**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

# MEMO

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# Rear View Monitor

## Rear View Monitor Cautions

The rear view monitor is a visual assist system when reversing the vehicle that provides images from the rear of the vehicle.



The rear view monitor is only a visual assist device when reversing the vehicle. The images on the screen may be different from the actual conditions. Always drive carefully confirming the safety of the rear and the surrounding conditions by looking directly with your eyes. Reversing the vehicle by only looking at the screen may cause an accident or a collision with an object.



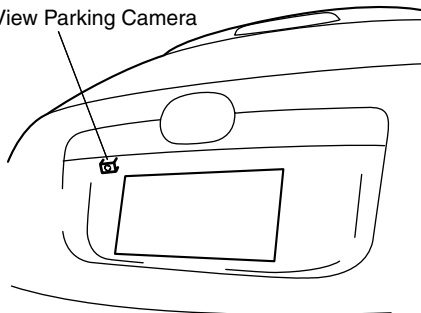
- | When the display is cold, images may course across the monitor or the screen and may be dimmer than usual, which could cause difficulty in confirming the surrounding conditions of the vehicle. Always drive carefully confirming the safety of the rear and the surrounding conditions by looking directly with your eyes.
- | Do not apply excessive force to the camera. The camera position and angle may deviate.
- | Do not disassemble, modify, or remove it as it may no longer be waterproof.
- | The camera cover is made of plastic. Do not apply degreasing agents, organic solvents, wax, or glass coating agents to the camera cover. If any are spilled on the cover, wipe off with a soft cloth immediately.
- | Do not rub the cover excessively, or polish it using an abrasive compound or a hard brush. The cover may be damaged affecting the image.

### Note

- | If water, snow, or mud is stuck on the camera lens, wipe it off using a soft cloth. If it cannot be wiped off, use a mild detergent.
- | If the camera temperature changes rapidly, such as by pouring hot water on it under cold temperature conditions, the rear view monitor may not operate correctly.

## Rear View Parking Camera Location

Rear View Parking Camera



# Switching to the Rear View Monitor Display

Shift the shift lever to R with the ignition switch in the ON position to switch the display to the rear view monitor display.

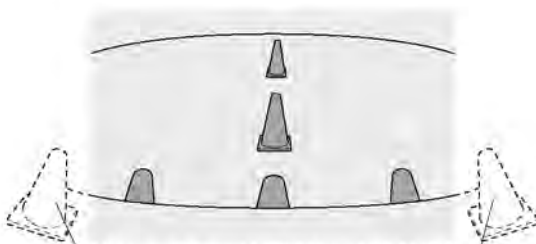
## Note

When the shift lever is shifted from R to another shift lever position, the screen returns to the previous display.

## Displayable Range on the Screen

The images on the screen may be different from the actual conditions.

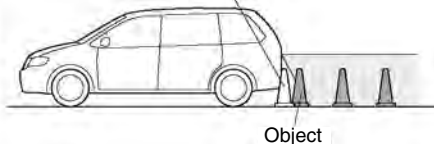
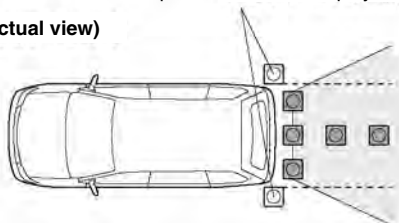
### (Screen display)



Both bumper ends are not displayed.

Both bumper ends are not displayed.

### (Actual view)



## Note

- | The displayable range varies depending on the vehicle and road conditions.
- | The displayable range is limited. Objects under the bumper or around the bumper ends cannot be displayed.
- | The distance appearing in the displayed image is different from the actual distance because the rear view parking camera is equipped with a specific lens.
- | Some optionally installed vehicle accessories may be picked up by the camera. Do not install any optional parts that can interfere with the camera view, such as illuminating parts or parts made of reflective material.
- | It may be difficult to see the display under the following conditions, however, it does not indicate a malfunction.
  - In darkened areas.
  - When the temperature around the lens is high/low.
  - When the camera is wet such as on a rainy day or during periods of high humidity.
  - When foreign material such as mud is stuck around the camera.
  - When the camera lens reflects sunlight or headlight beams.
- | If the camera picks up a high-intensity light such as sunlight reflected off the vehicle body, a bright belt (light line) may appear on the display. (Smear phenomenon)



# Rear View Monitor Operation

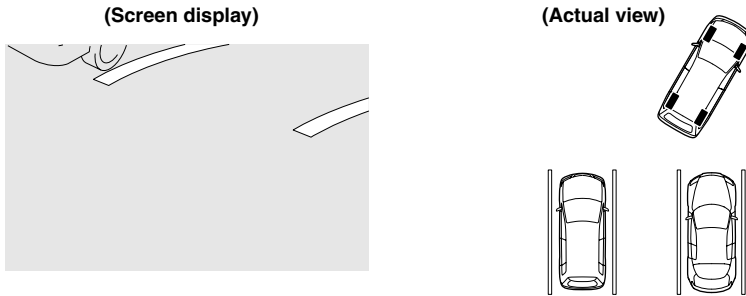
The operation of the rear view monitor when reversing the vehicle varies depending on the traffic, road, and vehicle conditions. The amount of steering and the timing also varies depending on conditions, so confirm the surrounding conditions directly with your eyes and steer the vehicle in accordance with the conditions.

Be well aware of the above cautions prior to using the rear view monitor.

## Note

Images taken by the rear view parking camera and displayed on the navigation display are mirror images.

- (1) Shift the shift lever to R to switch the display to the rear view monitor display.
- (2) Confirming the surrounding conditions, reverse the vehicle.



- (3) When the shift lever is shifted from R to another shift lever position, the screen returns to the previous display.

# Variance Between Actual Road Conditions and Displayed Image

Some variance occurs between the actual road and the displayed road. Such variance in distance perspective could lead to an accident. Note the following conditions that may cause a variance in distance perspective.

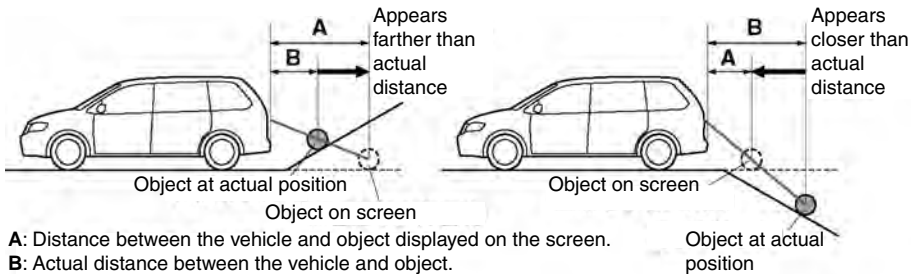
## 1 When the vehicle is tilted due to the weight of passengers and load

When the vehicle rear is lowered, the object displayed on the screen appears farther than the actual distance.



## 2 When there is a steep grade behind the vehicle

When there is a steep upgrade (downgrade) behind the vehicle, the object displayed on the screen appears farther (downgrade: closer) than the actual distance.





Caution

## Caution

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



Cautions

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

Operation is subject to the following two conditions;

(1) this device may not cause interference, and

(2) this device must accept any interference,

including interference that may cause undesired operation of the device.

8. RTN button<sup>\*2</sup> : Button used to return to the previous screen.
9. DISP button: Screen brightness/contrast mode selection and adjustment display.
10. POWER/VOLUME button: The volume can be adjusted by turning the dial. Turn the audio unit off by pressing the dial.
11. TUNE/SEEK button: Performs tuning (short press) and searching (long press) in FM/AM mode. Performs track skip (short press) and fast-forward/reverse (long press) in CD mode.
12. SCAN button: Performs scanning operation in FM/AM and CD modes.
13. AUDIO button: Audio unit-related operation screen display (preset display of FM and AM).  
The on-screen touch button "SOUND" is constantly displayed at the bottom of the audio unit-related screen for displaying the sound quality adjustment screen when selected.
- <sup>\*1</sup> : The external input terminal is not equipped on your vehicle because it is not standard equipment.
- <sup>\*2</sup> : For navigation unit operation

#### Note

- If there is no response after selecting the on-screen button, remove your finger from the screen and select it again.
- On-screen buttons that cannot be operated are not illuminated.



Caution

Select the on-screen button lightly with your finger.  
Selecting the on-screen buttons using objects that have a hard or sharp end such as a ball point pen or mechanical pencil could cause a malfunction.

# Activation

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



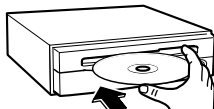
## ■ Map Disc

- Refer to “Handling and Care of Map Discs” to know how to handle a map disc (☞ page 60).

## 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 ACC or ON position for a long time while the engine not running.

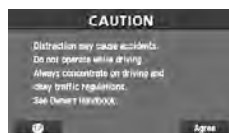
## 1 Insert the map disc with the printed side facing up.



## Note

- The main unit is located under the front passenger seat.
- 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

## Note

- When the ignition switch is in the ACC or ON position, the screen changes as follows to activate the navigation system.
- The screen (audio or navigation) that was displayed prior to the engine being turned off is displayed. Before the navigation screen is displayed, the CAUTION screen will be displayed.

- 2** Read the **CAUTION** carefully, and select the **Agree** on-screen button.



- The Current Position screen appears.

**Note**

- You can select the language by selecting the **Language** on-screen button. You can also change the selected language using Language Selection. ( page 51)
- The **CAUTION** screen remains on the display unless you select the **Agree** on-screen button.

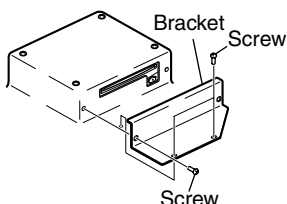


Caution

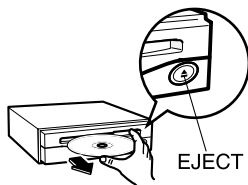
Most functions are inhibited while the vehicle is in motion. Please read the handbook for operation instructions. Always obey traffic regulations.

## Removing the Map Disc

- 1** With the ignition switch in the **ACC** position, remove the bracket.



- 2** 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.

## On-screen Buttons

Select the on-screen button lightly with your finger. Colors for unavailable buttons will be pale.

# Screen change Changing the Map Orientation/Scale



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

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

### Map orientation

#### 1 Select , on-screen button.

● North Up: Geographic north is up.





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



### Map scale

#### 1 Select or on-screen button.

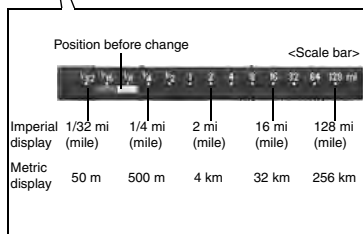
● The map can be displayed in 13 steps with scales from

 to .

● ZOOM OUT: Enlarges the map.



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





### Warnings

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

### Select the desired Search Area

US1 : ID, OR, WA,	US7 : AR, AL, LA, MS, TN
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	

RTN

**New City** :  
Cancel the city selection.

**5 Nearest Cities** :  
Displays list of 5 city names nearest the current position.

**Input City Name** :  
Displays the city name input screen.

Select the city name from the list

Enter the city name and select

Enter the street name and select

Select the city name from the list

Select the street name from the list

Enter the street name and select

Enter the house no.

Select the street name from the list

Select **OK**

Select the street name from the list

Direct destination input  
(  page 30)

Enter the street name and select **List**

Select the street name from the list

Select the city name from the list

Enter the house no.

Select **OK**

● For Character Entry, please refer to page 29.





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

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

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

The route will not necessarily follow the specified conditions.

Select **Chg Loc** → **Move** to location and then (Change Location). select **OK** .

Shows the map for the destination/way points.

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

Select **Delete** → **Yes** :

**No** :Cancel the deletion

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

**Whole Route**

Searches the detour routes at one, three, and five miles from the present position to the selected routes. (Display range varies according to the set distance of the selected route.)

**Whole Route** searches the route that detours from the present position for all routes.

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

**No** :Cancel the setting

NAVI

Guide

NAVI

Guide

NAVI

NAVI

Guide

# 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.

Before Steps

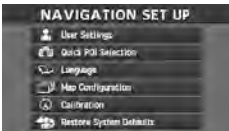
**MENU**

→ select

 Navigation Set Up

Open

**[NAVIGATION SET UP]**



 User Settings (  page 45)

 Quick POI Selection (  page 47)

 Language (  page 51)

 Map Configuration (  page 52)

 Calibration (  page 48)

 Restore System Defaults (  page 50)

# Precautions/System Performance

## Voice Guidance



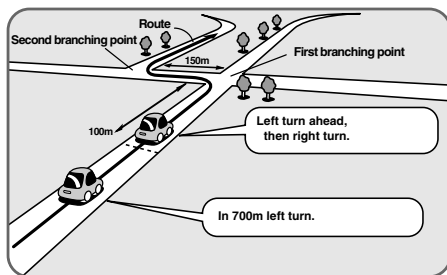
Warnings

- 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.

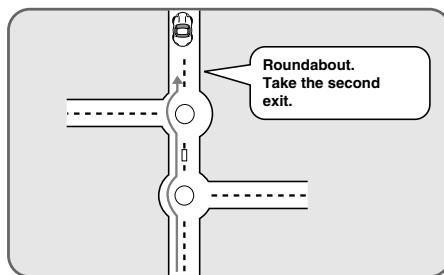
Voice guidance has the following functions:

### ■ 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.

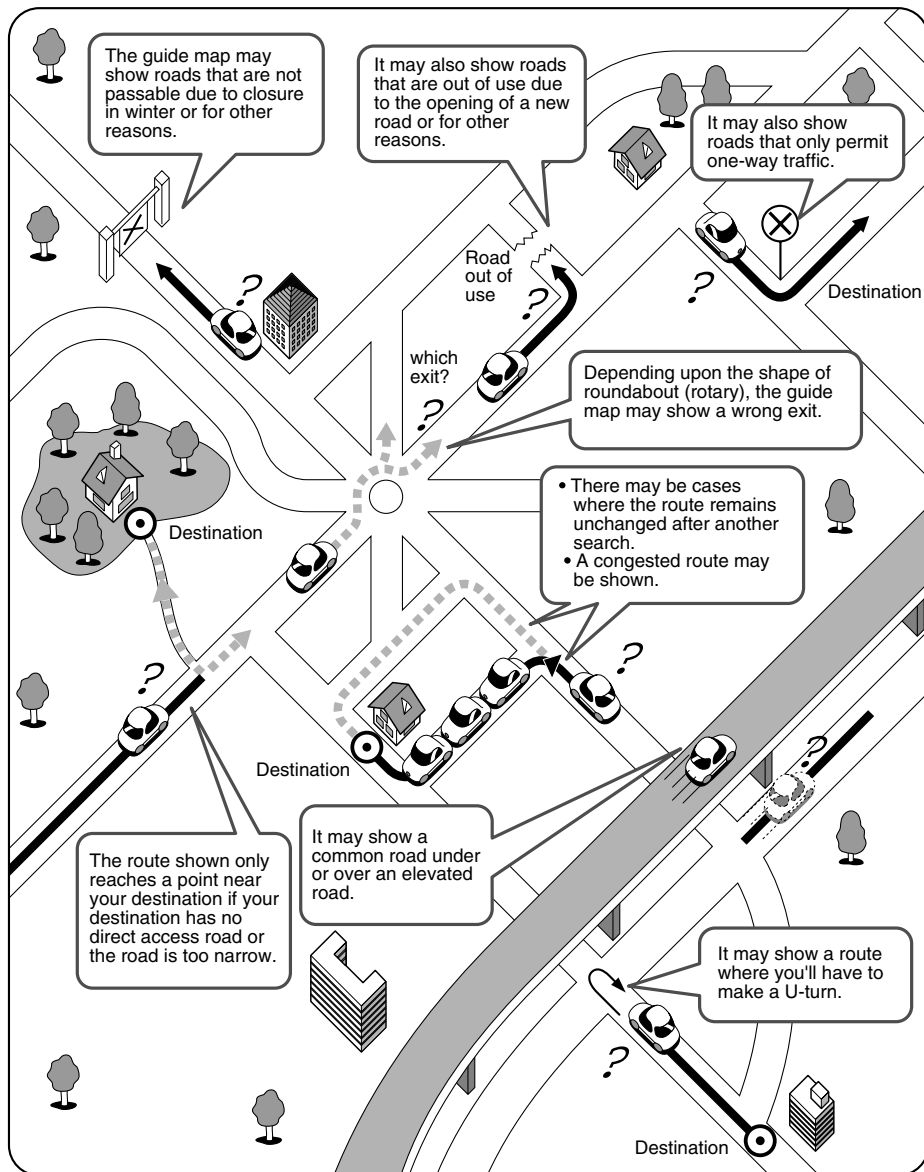
If necessary



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.



## ■ Safety Certification

This CD player is made and tested to meet exacting safety standards. It meets FCC requirements and complies with safety performance standards of the U.S. Department of Health and Human Services.



- This CD player should not be adjusted or repaired by anyone except qualified service personnel. If servicing is required, contact an Authorized Mazda Dealer.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser exposure. Never operate the CD player with the top case of the unit removed.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### Note

For CD player section:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

### Note

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

# Rear View Monitor

## Rear View Monitor Cautions

The rear view monitor is a visual assist system when reversing the vehicle that provides images from the rear of the vehicle.



The rear view monitor is only a visual assist device when reversing the vehicle. The images on the screen may be different from the actual conditions. Always drive carefully confirming the safety of the rear and the surrounding conditions by looking directly with your eyes. Reversing the vehicle by only looking at the screen may cause an accident or a collision with an object.



- When the display is cold, images may course across the monitor or the screen and may be dimmer than usual, which could cause difficulty in confirming the surrounding conditions of the vehicle. Always drive carefully confirming the safety of the rear and the surrounding conditions by looking directly with your eyes.
- Do not apply excessive force to the camera. The camera position and angle may deviate.
- Do not disassemble, modify, or remove it as it may no longer be waterproof.
- The camera cover is made of plastic. Do not apply degreasing agents, organic solvents, wax, or glass coating agents to the camera cover. If any are spilled on the cover, wipe off with a soft cloth immediately.
- Do not rub the cover excessively, or polish it using an abrasive compound or a hard brush. The cover may be damaged affecting the image.

### Note

- If water, snow, or mud is stuck on the camera lens, wipe it off using a soft cloth. If it cannot be wiped off, use a mild detergent.
- If the camera temperature changes rapidly, such as by pouring hot water on it under cold temperature conditions, the rear view monitor may not operate correctly.

## Rear View Parking Camera Location

Rear View Parking Camera

