



Navigation



AVN5495

ESN E5 6.5" Wide TFT Touch-Panel Display
CD/DVD/MS Multi-Source Receiver with HDD Navigation

We appreciate your purchase of this receiver.
Please read through this manual for correct operation.
We suggest that after reading it you keep this manual
in a safe place for future reference.

NAVIGATION SYSTEM

The navigation system uses maps and vocal instructions to guide you while you are driving. However, depending on accuracy of that guidance, there may be times when inappropriate advice is given. When driving along the route set by the navigation system, make sure to follow the actual traffic regulations at all times (such as one-way streets and other road conditions).

Warnings and caution signs, illustrated below, are posted throughout this manual as well as on the device itself. They show safe and correct ways to handle the product so as to prevent personal injury to you and others and avoid damage to property. Before reading through the manual, take time to read through and learn the important information listed in this section.

Cautions for use

Make sure your positioning is stable prior to starting your trip

- Start driving only after the GPS mark appears. Starting to drive with improper positioning may lead to vehicle positioning errors.

* The images appearing on the screen may differ from those shown in this manual depending on the type of database used and when it was created.



Warning

This sign indicates a situation in which incorrect handling through disregard of a sign might result in death or serious personal injury.



Caution

This sign indicates a situation in which incorrect handling through disregard of a sign might result in personal injury or may result solely in damage to property.

The symbol shown below indicates important instructions or helpful information to keep in mind.



A point it will be helpful to remember.
Important points.

- Please read all materials that come with the product, such as manuals and warranties.
Fujitsu Ten will not be responsible for unsatisfactory product performance due to failure to follow these instructions.
- Changes in product specifications may result in differences between the content of the manual and actual product features.

Please use care in handling the manual.

Forcefully spreading or pulling on pages may result in their falling out of the binding.
Use the manual carefully.

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The Topic Index simplifies searches for explanations about individual features. When confused by an operation, use the Topic Index to search for information about the operation.

MEMO



1. How to use this manual

Item title

A number and title is assigned to each item.

Operation title

A title is assigned to each operation.

Detailed operation title

A title is assigned to each detailed operation.

Operation procedure

Describes the operation. Proceed with the operation according to the numerical order.

Section title

A title is assigned to each section.


● navigation guidance

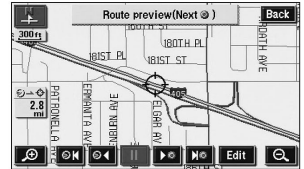
6. Performing operations on the guided route

On-route scroll


The map can be moved automatically along the set route to the destination, start point, or set POIs on the screen that shows the guided route.

Starting on-route scroll

- 1 Touch **Map view** when a map is displayed on the screen.
- 2 Touch **Route preview**.
- 3 Touch the scroll touch switches .
 - The route to a destination or a POI on the route can be set by touching **Edit**.



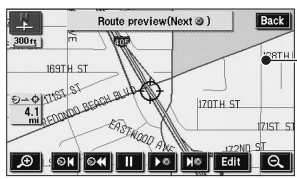
Setting POIs for on-route scroll

- 1 Touch **Edit** in the on-route scroll screen.
- 2 Touch the POI you want to display in the on-route scroll display.
 - Only one POI can be set.
 - A POI not currently set as a touch switch can be selected by touching **Others**.
 - If you make a mistake, touch **Delete**.
- 3 Touch **To next**  or **To next POI**.
- 4 Touch **OK**.



On-route scroll screen operations

- Touch **||** to pause map scrolling.
- Press **NAVI** to stop the on-route scroll.
- Touch **▶** or **◀** to move the map quickly.



- If there is no route displayed on the map, on-route scroll is impossible.
- The split-screen display is cancelled during on-route scrolling. You can resume the display by pressing the **NAVI** button.
- If scrolling up to the next destination:
 - Use the **▶** switch to move the map up to the next destination.
 - Use the **◀** switch to move the map back to the departure point (previous destination).
 - Use the **▶** switch to display the next destination map.
 - Use the **◀** switch to display the departure point map (previous destination).
- If scrolling to the next POI

Only selected POIs can be touched.

 - **▶** ... The map moves along the set route to the next landmark in the destination direction.
 - **◀** ... The map returns along the set route to the previous landmark in the direction of the start point.
 - **▶** ... A map is displayed for the next POI landmark on the set route in the destination direction.
 - **◀** ... A map is displayed for the previous POI landmark on the set route in the direction of the start point.
- On-route scroll cannot be used to scroll up to the next POI if the scale of the displayed map is greater than those shown below.
 - **▶** and **◀** ... 0.5 mile scale
 - **▶** and **◀** ... 0.5 mile scale
- POIs set for on-route scroll differ to those set as local POIs.
- After moving to a POI landmark, it is possible to display information for that POI (See page 65).
- The on-route scroll may stop depending on the map displayed.

Navigation guidance

Operation screen

A screen showing the operation.

Section side heading

The side heading for the current section.

Attention

Additional points regarding operation are given here.

➡ Continue to the next page

Indicates that operation procedures continue on the next page.

2. Features

High-accuracy, high speed response HDD

Employs a high-capacity hard disk for navigation that offers greater operation speed than conventional DVD-ROM navigation.

Several search methods to choose from (See page 48)

- **Search using a POI name** (See page 61)

When the name of the POI is known, enter it to initiate a search. It is also possible to search by entering only a part of the name.



- **Search using a freeway entrance/exit**
(See page 82)

A search can be initiated using the name of a freeway or a freeway entrance/exit.



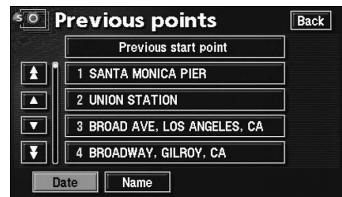
- **Search using latitude/longitude coordinates**
(See page 83)

A map can be displayed by directly entering the latitude and longitude coordinates.



- **Search using the destination archive**
(See page 79)

A map can be retrieved using entries previously set in the destination archive.



- **Search using a registered point**
(See page 79)

A map can be retrieved using your home or a point registered in the memory.



● Search using a telephone number

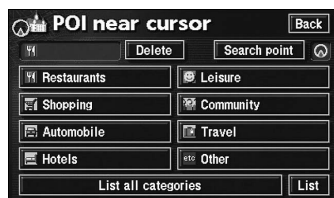
(See page 84)

A map can be retrieved by entering a telephone number.



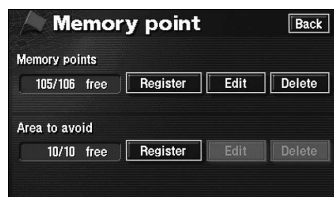
● Search using local POI (See page 74)

A map can be retrieved from a POI at your present location, in a set city, or a set destination.



Registering a desired point in the memory (See page 136)

Your home or a geographical point you want to indicate on a map can be registered in the memory. Also, when initiating a route search, points through which you want to make a detour can be registered in advance.



POI icon display (See page 38)

Various types of POIs can be displayed on a map using icons.

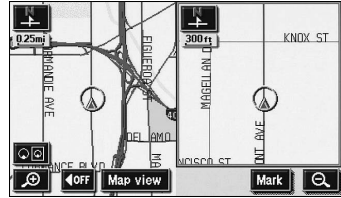


2. Features

Diverse screen displays (See page 35, 99, 114)

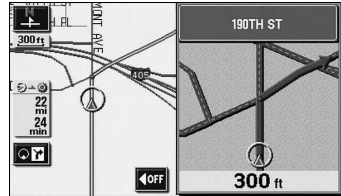
- **Split screen display**

The screen can be divided into two parts.



- **Enlarged intersection display**

While route guidance is in progress, an enlarged illustration of the area around the intersection where a turn is to be made (junction) is displayed when approaching that intersection.



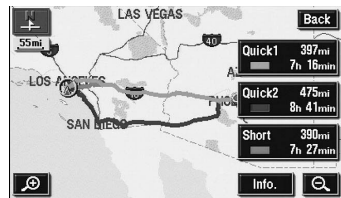
- **List display**

A list is displayed of the distance to intersections and turning directions to the destination.



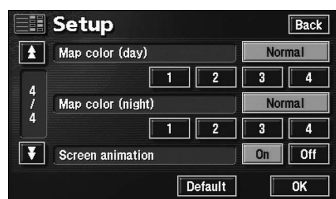
3-route simultaneous display (See page 100)

When initiating a route search, three routes (Quick 1, Quick 2 and Short) can be searched for simultaneously.



The map display color can be switched (See page 24)

Five map display colors can be selected for both the daytime and nighttime screen display.



User Customize Function for saving settings for each user (See page 172)

The settings used for navigation can be saved for each user and easily retrieved.



System upgrade (See page 165)

● Rear view camera

When the optional Rear view camera is installed, the rear image can be displayed on the monitor screen.

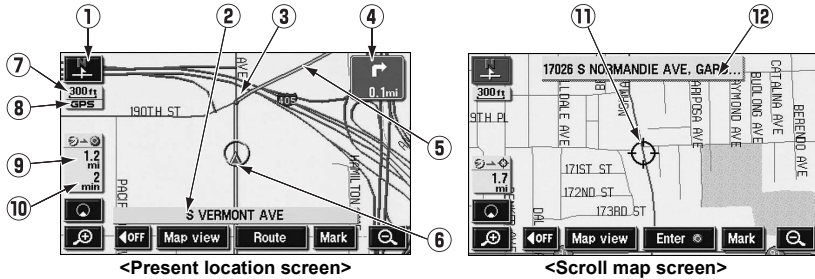



3. GPS navigation system

By setting your destination, the device will automatically perform a route search and guide you through the route using screen displays and voice announcements.

Viewing the Navigation screen

The navigation map display consists of a present location screen and a scrolling map screen.



① **Orientation mark** (When heading-up display: )

Indicates the orientation of the map.

- Refer to the Section **"Switching the map orientation"** on page 34 for how to switch the map direction (north-up or heading-up).

② **Name display**

The following names appear depending on the situation. (Only for geographical points with information stored in the map data).

- Names of roads taken
- Names of interchange exits

③ **Instruction points**

Intersection guidance (intersection name display/enlarged intersection display) will appear.

- Refer to the Section **"Route guidance screen"** on page 114 for information concerning intersection guidance.

④ **Direction/Remaining distance display**

- The turn to be made at the next intersection will appear.
- The distance up to the next intersection is displayed.

⑤ **Route display**

When setting your destination, the route all the way to that point is displayed.


- Route guidance will occur only when the present location appears on a dark blue line (—).

⑥ Vehicle position mark

The present location and the vehicle direction are displayed.

⑦ Scale display

The reduction scale of the map being displayed is indicated.

The length of the  appearing in the screen above represents 300 ft.

⑧ GPS mark

This mark will appear when utilizing absolute positioning data from GPS satellites.

- See page 18 for information concerning this indication. There may be misalignments depending on the satellite conditions.

⑨ Remaining distance display

The distance from the present location to the destination is indicated.

- While route guidance is in progress, the distance calculated from the route now being taken to the destination is indicated.
- When deviating from the set route, the distance to the destination in a straight line is indicated.
- Refer to the Section **"Switching the required time/remaining distance"** on page 129 for information on how to switch the remaining distance display.

⑩ Required time display/destination mark

The following marks appear depending on the situation.

■ Required time display



While route guidance is in progress, the required time up to the destination is indicated.

- Refer to the Section **"Setting the estimated travel time"** on page 124 for information concerning the required time.

■ Destination direction mark

When deviating from the set route, the direction towards the destination is displayed.

⑪ Cursor mark

This mark is indicated on the map retrieved by a search or by scrolling.

To scroll, simply touch the map (anywhere except the touch switches).

⑫ Cursor position street name display

The name of the street at the current cursor position on the map is displayed for approximately 6 seconds.

Except for some parts describing certain functions, this manual uses north-up map 1 screen illustrations to describe the device's functions.

"Touch the map" refers to touching the map screen directly (anywhere except the touch switches).

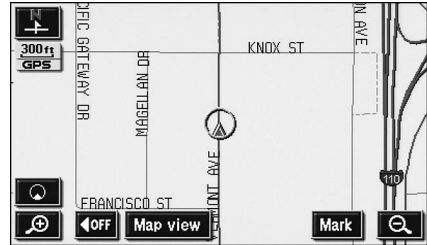
4. GPS

Global Positioning System (GPS): a system developed and operated by the United States government that pinpoints your present location by utilizing latitudinal and longitudinal data received from either 3 or 4 satellites.

Situations when GPS signal reception is impossible

The following are situations when the GPS signal cannot be received:

- When the GPS signal is obstructed while driving through building clusters, tunnels or on overpasses
- When the signal is obstructed because an object is placed near or on the GPS antenna
- When the GPS satellite is not sending any signals to the earth (signal emission may be halted due to modifications or repairs conducted by the U.S. Tracking Control Center, the organization responsible for controlling GPS signals)
- When a digitally formatted cellular telephone unit is brought near the GPS antenna



Screen with GPS signal reception in progress



Handling the GPS antenna

- Consult a specialist at your local retailer for how to install the GPS antenna.
- Do not apply paint or wax to the GPS antenna. Otherwise, signal reception sensitivity may be diminished or signal reception may be rendered impossible.
- Do not pull on the cord when uninstalling or moving the GPS antenna. Otherwise, short circuits or disconnections may result.
- See page 175 for information concerning GPS signal accuracy and errors.

1. Menu screen and list screens

Menu screen

1 Press **MENU** to display the Menu screen.

2 The following operations can be performed from the Menu screen.

- Touch the desired item's touch switch to activate.



| Item (touch switch) | Function | Page |
|-----------------------------------------------------|------------------------------------------------------------------|---------------|
| Suspend guidance/ Resume guidance *1 | Stopping or restarting route guidance | 112 |
| Volume | Setting the volume | 27 |
| | Setting the automatic freeway volume switch | 27 |
| Select user | Saving, retrieving and deleting all navigation settings | 172 |
| Memory | Registering, correcting, or deleting your home | 137, 139, 141 |
| | Registering, correcting, or deleting memory points *2 | 142, 144, 153 |
| | Registering, correcting or deleting detour memory points | 158, 160, 161 |
| Setup | Setting the navigation system corrections | 169 |
| | Switching the kilometer/mile display | 25 |
| | Setting the estimated travel time | 124 |
| | Setting the auto reroute search | 134 |
| | Switching the time zone | 25 |
| | Setting the automatic voice guidance | 127 |
| | Setting the guidance when in other modes | 128 |
| | Setting the traffic restriction message display | 98 |
| | Setting the automatic intersection enlargement display | 120 |
| | Setting the automatic freeway junction guidance screen | 122 |
| | Displaying the street name while scrolling | 30 |
| | Setting the touch switch display | 31 |
| | Setting the type of POIs in the vicinity retrieved while driving | 46 |
| | Deleting destination archives | 162 |
| Switching the map display color | 24 | |
| Setting the screen animation when switching screens | 24 | |
| Map Info | Displaying map data information | 174 |

*1: Shaded if a destination is not set.

*2: Including registering, correcting, or deleting quick access points.

1. Menu screen and list screens

Switching the list screens

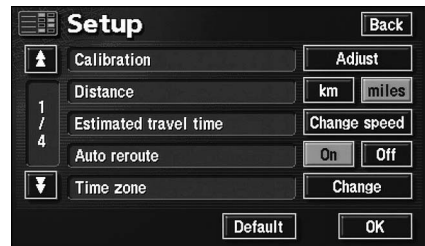
▲ or ▼ switch display

Touch ▲ or ▼ switch to move through the list one item at a time.



Page switch display

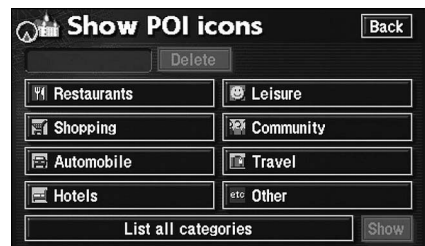
Touch ▲ or ▼ to move through the list one page at a time.



POI switch display

Touch **Restaurants** / **Shopping** / **Automobile** / **Hotels** / **Leisure** / **Community** / **Travel** / **Other** to display the list for the desired POI.

- The touch switch is shaded for POIs without corresponding lists. They cannot be operated even if touched.



Rearranging the list order



If the following touch switches are displayed at the bottom of the list screen, the list order can be reordered in terms of the corresponding item.

- Touch **Date** to reorder by date.
- Touch **Icon** to reorder by POI and/or memory point type.
- Touch **Name** to order alphabetically.
- Touch **Attribute** to list memory points in the following order: home - quick access points - memory points.



Displaying full titles

Sometimes the name of a location is too long to be fully displayed. Use the following function to display the full item name.

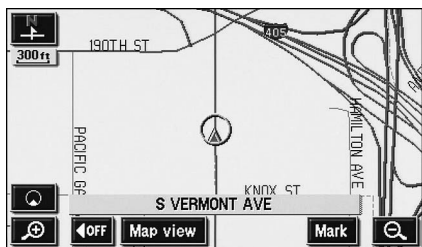
Touch  or  to scroll through the name of a location.



2. Adjusting the screen and setting the sound

Screen adjustment

To make the screen easier to view, it can be switched from "daytime display" to "nighttime display" by turning the vehicle lights (headlights, taillights, license plate lights) ON or OFF.



● Daytime display (when lights are turned OFF)



● Nighttime display (when lights are turned ON)

How to display the image quality adjustment screen

- 1 Press **DISP** in the navigation screen to display the image quality adjustment screen.
- 2 After completing the adjustment, touch **ENTER** or wait at least 20 seconds and the adjustment will be automatically set and the display will return to the original screen.



● Image quality adjustment screen

Contrast/Brightness

- 1** ■ Contrast
 Touch **+** to strengthen contrast, or **-** to weaken contrast.
- 2** ■ Brightness
 Touch **+** to increase brightness, or **-** to decrease brightness.

Setting daytime display when vehicle lights are on

- 1** The daytime display and nighttime display will be switched each time **DAY** is touched.

- When in daytime display, the touch switch appears green.



Turning off the screen

- 1** Touch **OFF**.
 - To make the screen reappear, press **NAVI**.



- Even with the screen turned OFF, the GPS present location positioning continues to function.
- The daytime display and nighttime display can be adjusted separately.

2. Adjusting the screen and setting the sound

Switching the map display color

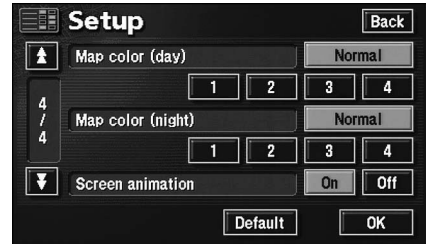
The map display color (a 5 color selection) can be switched for the daytime and nighttime displays independently.

1 Touch **Setup** in the Menu screen.

2 Touch **Normal**, **1**, **2**, **3** or **4** for Map color (day) and Map color (night) respectively.

- The selected touch switches will turn green.

3 Touch **OK**.



Setting the screen animation when switching screens

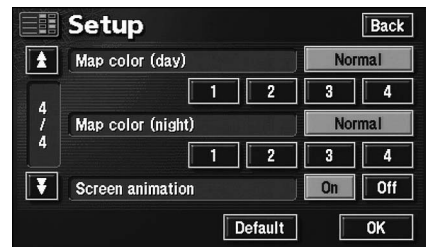
A slower speed can be set for the switching screen animation.

1 Touch **Setup** in the Menu screen.

2 Touch **On** or **Off** for Screen animation.

- The selected touch switch will turn green.

3 Touch **OK**.



- Touch **Default** in the Setup screen to return all items to their default settings.
- There is also a touch switch for disabling animation.

Switching km and miles display

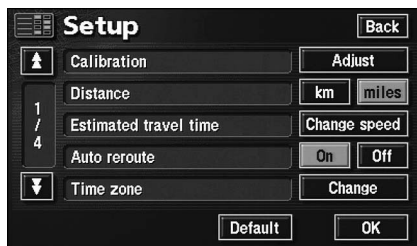
The km and miles display on the map screen can be switched.

1 Touch **Setup** in the Menu screen.

2 Touch **km** or **miles** for Distance.

- The selected touch switch will turn green.

3 Touch **OK**.



Switching the Time zone

U.S time zones can be selected by region.

Adjusting the Time zone

1 Touch **Setup** in the Menu screen.

2 Touch **Change** for Time zone.

3 Touch **Pacific**, **Mountain**, **Central**, **Eastern** or **Hawaii**.

- The selected touch switch will turn green.

4 Touch **OK**.



Touch **Default** in the Setup screen to return all items to their default settings.

2. Adjusting the screen and setting the sound

Setting Daylight saving time

1 Touch **Setup** in the Menu screen.

2 Touch **Change** for Time zone.

3 Touch **On** or **Off** for Daylight saving time.

- The selected touch switch will turn green.

4 Touch **OK** .



- Touch **Default** in the Setup screen to return all items to their default settings.
- Touch **On** to set the clock display on the audio screen one hour ahead. Touch **Off** to return the clock display to its previous setting.
- The time displayed on the audio screen is automatically adjusted using GPS signals. (You cannot adjust the time yourself.)

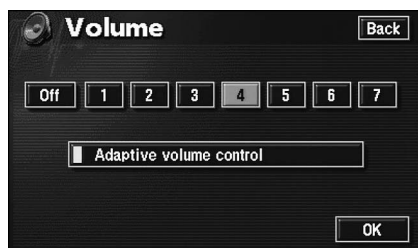
Setting the volume

It is possible to adjust the voice volume during route guidance.

Adjusting the volume

- 1 Touch **Volume** in the Menu screen.
- 2 Touch **1**, **2**, **3**, **4**, **5**, **6** or **7**.

- The selected touch switch will turn green.
- Touch **Off** to turn the volume OFF. When the volume is OFF, touch any of the volume switches to turn the volume back ON.



- 3 Touch **OK**.

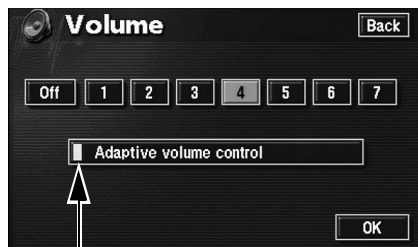
Setting the automatic freeway volume switch function

When driving at high speeds, the volume can be set to automatically increase one level. The function can be turned ON (automatically raise) or OFF (do not raise).

- 1 Touch **Volume** in the Menu screen.
- 2 Touch **Adaptive volume control**.

- When turned ON, the movement display light turns yellow.

- 3 Touch **OK**.



Movement display light



When exceeding 50 mph (80 km/h), the volume automatically increases one level. It returns to its original level when the speed falls below 43 mph (70 km/h).

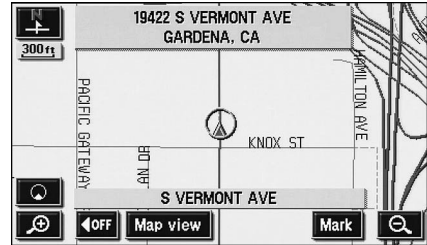
3. Map displays

Displaying the present location

The present location screen appears when switching the engine to ACC or ON.

- The present location of your vehicle is displayed on the map.
- When the menu screen or any other map screen besides the present location map screen is displayed, press **NAVI** to return to the present location screen.

- 1 Press **NAVI** in the present location screen to make all place names near the present location appear.



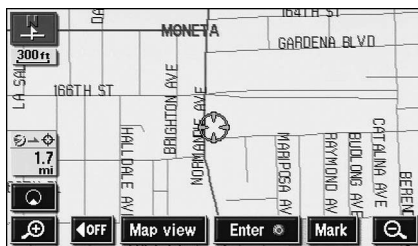
After the device is installed or the battery terminal is reconnected, the vehicle position mark (▲) may differ from the actual present location (misalignment of the vehicle position mark (▲)). Continue driving and the present location will be automatically corrected using map-matching and GPS data (in some cases, this may take several minutes). If GPS data is not used and the present location is not automatically corrected, stop the vehicle in a safe area and correct the present location. (See page 169)

Moving the map (one-touch scroll)

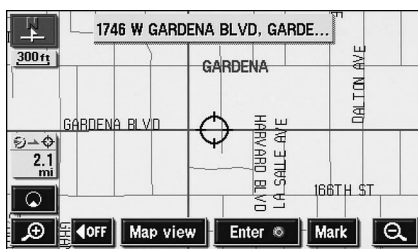
When a map is displayed, touching the map directly (anywhere except the touch switches) makes the center of the display scroll to that point. Street names around the scrolled point will appear.

Moving the map

- 1 Touch the map anywhere except the touch switches.
 - The distance in a direct line from the present location is displayed to the left of the map.
 - Touch continuously around the center of the screen and the map will move slowly.
 - Touch continuously near the edge of the screen and the map will move quickly.



● While scrolling



● Scrolling stopped



- For safety reasons, the map can only be scrolled up to a predetermined distance while the vehicle is in motion.
- If the map is moved using one-touch scroll, it will freeze and not move even if the present location changes. Press **NAVI** to return to the original status (moving map).

3. Map displays

Setting the street name display while scrolling

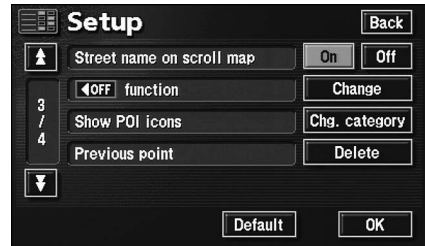
You can set the street name display to ON (display) or OFF (not display) while scrolling.

1 Touch **Setup** in the Menu screen.

2 Touch **On** or **Off** for Street name on scroll map.

- The selected touch switch will turn green.

3 Touch **OK**.



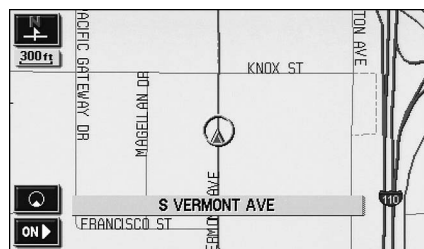
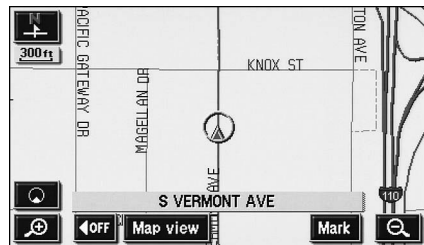
Switching the touch switch display

When a map is displayed, the number of touch switches displayed on the screen can be reduced.

Changing the touch switch display

1 Touch **OFF**.

- If the touch switches are not displayed, operations cannot be performed via the touch switches. First display the touch switches on the screen and then proceed.
- If the touch switches are not displayed, touch **ON** to make them appear on the screen.



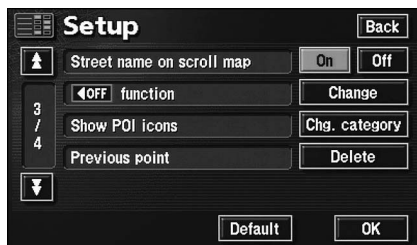
Touch **Default** in the Setup screen to return all items to their default settings.

Setting touch switches to display or not display

It is possible to set which touch switches are displayed when **◀ OFF** has been selected.

1 Touch **Setup** in the Menu screen.

2 Touch **Change** for **◀ OFF** function.



3 Touch the shaded switches that you want to display.

- Touch **◀ OFF** on the map screen to hide these shaded touch switches.
- Touch a shaded switch again to redisplay.

4 Touch **OK** .





- Touch **Default** in the Setup screen to return all items to their default settings.
- Touch **Default** in the switch display setting screen to restore default switch display settings.
- If all touch switches are set to display, the **◀ OFF** and **ON ▶** switches will not appear.



3. Map displays






Switching the map reduction scale

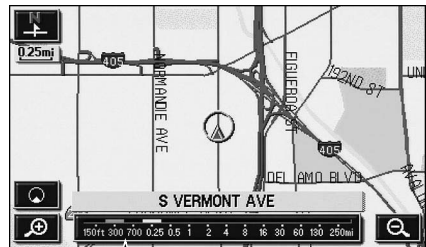
The map reduction scale (map range) can be switched to any desired setting from 40,960,000:1 to 5,000:1. Also, if a destination is set, you can select a reduction scale showing the entire route to the destination with one touch.

| Touch switch | Reduction scale | Scale display | Touch switch | Reduction scale | Scale display |
|-----------------------------------------------------------------------------------|-----------------|---------------|-----------------------------------------------------------------------------------|-----------------|---------------|
|  | 1/0.005 million | 150ft |  | 1/0.64 million | 4mi |
| | 1/0.01 million | 300ft | | 1/1.28 million | 8mi |
| | 1/0.02 million | 700ft | | 1/2.56 million | 16mi |
| | 1/0.04 million | 0.25mi | | 1/5.12 million | 30mi |
| | 1/0.08 million | 0.5mi | | 1/10.24 million | 60mi |
| | 1/0.16 million | 1mi | | 1/20.48 million | 130mi |
| | 1/0.32 million | 2mi | | 1/40.96 million | 250mi |

Switching to the desired reduction scale



1 To widen the map's range, touch . To shrink it down, touch .

- Every time the switch is touched, the scale goes up/down one level.
- After touching  or , touch a number on the scale bar to switch to the reduction scale represented by that number.
- Hold  or  for at least 1 second to switch the scale without increments (free zoom).
- The selected reduction scale will be indicated with a yellow mark ().






Scale bar

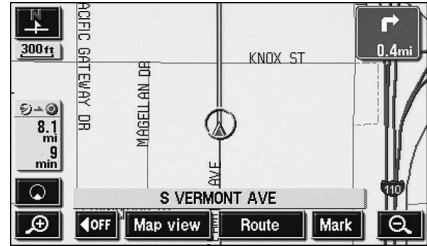


- The  switch will disappear when set to the maximum range (250 mile scale diagram). The  switch will disappear when set to the minimum range (150 ft scale diagram).
- For safety reasons, the free zoom function and scale bar cannot be operated while driving.

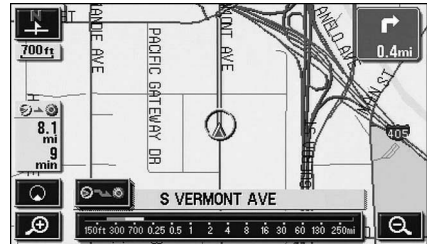
Switching to reduction scale displaying next destination


If a destination is set, you can switch to a reduction scale that displays the entire route from the present location to the destination with one touch. If multiple destinations have been set, the route to the next destination will be displayed.

- 1 If a destination is set, touch  or  and  will appear.



- 2 Touch .



- Depending on the set route and/or present location, it may not be possible to display the entire route.
-  is not displayed while the vehicle is in motion.

3. Map displays

Switching the map orientation

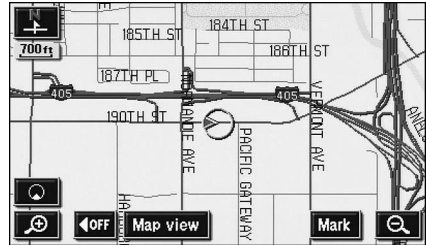
The orientation of the map being displayed can be switched.

● North-up display



The map appears with north pointing up at all times regardless of the vehicle's heading.

(The maps appearing in this manual are shown in north-up display form.)



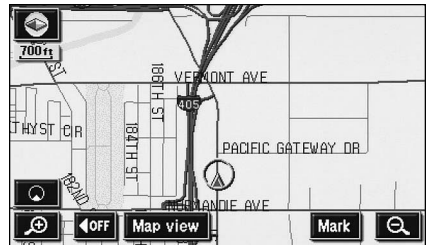
● North-up display

● Heading-up display



Indicates north

The map appears with the heading of the vehicle pointing up at all times.



● Heading-up display

Switching the map orientation

1 Touch  or .

- Switches between north-up display/
heading-up display.



ATTENTION


- When in heading-up display, maps retrieved by setting the destination and all-route display screens are shown with north-up. However, when returning to the present location screen, the display will switch back to heading-up display mode.
- The map orientation can be switched while driving.
 - * On a scrolling map, you can only switch from "Heading-up" to "North-up". (Switching from "North-up" to "Heading-up" is impossible.)


Switching to split screen display


When a map is displayed, the screen can be divided into two parts as shown below.

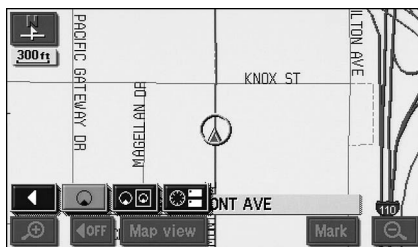
For example, the two parts can display different reduction scale screens, North-up and Heading-up screens, or POI display ON and OFF screens.

Switching to split screen display

1 Touch  when a map is displayed on the screen.

2 Touch .





- Touch  to return to the previous screen.
- The screen on the left can be operated the same way as when only one screen is displayed.



Operating the screen on the right

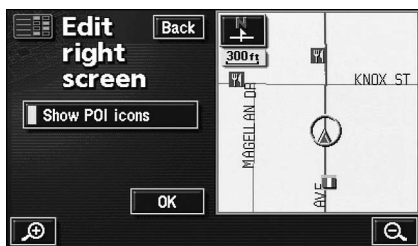
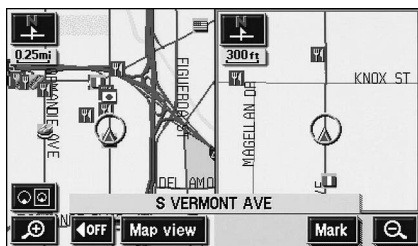
1 Touch the map shown in the screen on the right.

2 Touch any touch switch.

- The map reduction scale can be switched by touching  or .
- The map orientation can be switched by touching  or .

3 Touch **OK**.

- Returns to the split screen map.



3. Map displays

Local POI display

When a local POI is displayed in the screen on the left, you can set it to be displayed (ON) or not displayed (OFF) on the right screen.

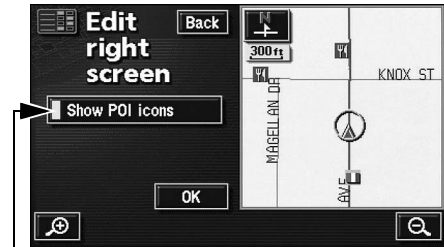
Refer to the Section "POI display" on page 38 for a list of POIs that can be displayed.

■ POI display ON

- 1 Touch **Show POI icons** .
 - The movement display light is lit and "Show POI icons" is switched ON.

■ POI display OFF

- 1 Touch **Show POI icons** when the movement display light is on.
 - The movement display light is off and "Show POI icons" is switched OFF.




Movement display light



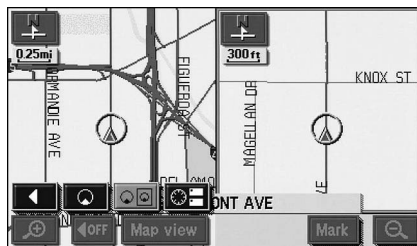
- When in split screen display, only the map appearing on the left screen can be moved with one-touch scrolling.
- Maps retrieved by the destination setting screen or all-route display screen will appear as one screen. When returning to the present location screen, the split screen will reappear.
- When a local POI is displayed, the settings in the screen on the left and right are the same. However, POIs not displayed on the left screen cannot be shown on the right screen.

Canceling the split screen display

1 If a map is displayed, touch  .

2 Touch .

- Selected touch switch turns green and the monitor returns to single screen display.

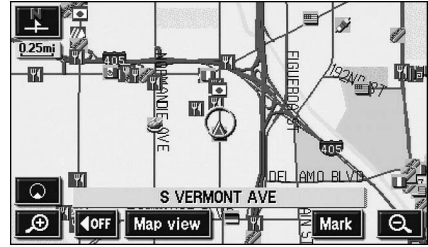


If you redisplay the split screen, the reduction scale for the maps shown will be the same as the previous time the split screen display was used.

3. Map displays

POI display

POI landmarks can be displayed on the map.



● POI display

POI display types





| Restaurant |
|----------------------|
| Restaurant |
| African |
| American |
| Austrian |
| Barbecue/Southern |
| Belgian |
| Bistro |
| Brewpub |
| British Isles |
| Cajun/Caribbean |
| Californian |
| Canadian |
| Chinese |
| Continental |
| Dutch |
| East European |
| Fast Food |
| Filipino |
| French |
| German |
| Greek |
| Grill |
| Hawaiian/Polynesian |
| Hungarian |
| Indian |
| Indonesian/Malaysian |
| International |

| Italian |
|-----------------|
| Japanese |
| Jewish/Kosher |
| Korean |
| Latin American |
| Maltese |
| Mexican |
| Middle Eastern |
| Polish |
| Portuguese |
| Russian |
| Sandwich/Deli |
| Scandinavian |
| Seafood |
| South American |
| Southeast Asian |
| Southwestern |
| Spanish |
| Steak House |
| Swiss |
| Thai |
| Turkish |
| Vegetarian |
| Vietnamese |
| Other |
| Shopping |
| Grocery Store |
| Shopping Center |

| |
|----------------------------|
| Automobile |
| Auto Service & Maintenance |
| Automobile Club |
| Automobile Dealership |
| Gas Station |
| Parking Garage |
| Parking Lot |
| Rental Car Facility |
| Hotels |
| Hotel |
| Leisure |
| Amusement Park |
| Bowling Center |
| Casino |
| Golf Course |
| Ice Skating Center |
| Marina |
| Movie Theater |
| Night Club |
| Ski Resort |
| Sports Complex |
| Tourist Attraction |
| Winery |
| Community |
| Community Center |
| Court House |
| Exhibition Center |

| |
|-----------------------|
| Government Office |
| Hospital |
| Library |
| Parks/Recreation |
| Police Station |
| Post Office |
| Town Hall |
| Travel |
| Airport |
| Border Crossing |
| Bus Station |
| Commuter Rail Station |
| Ferry Port |
| Rest Area |
| Park & Ride |
| Railway Station |
| Tourist Information |
| Other |
| ATM |
| Bank |
| Business Facility |
| City Center |
| Historical Monument |
| Museum |
| School |
| Theater |
| University |



- The above can be displayed on maps with a reduction scale of 0.5 miles or less. (Excluding all-route display screens.)
- POI landmarks can only be displayed within about 18 mile radius of the  or  mark. (Up to 200 landmarks.)
- Move the  or  mark to switch the POI landmark displays.

3. Map displays

Displaying landmarks by a simple operation while driving

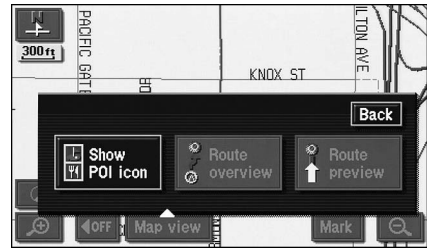
POI landmarks can be displayed while driving via a simple operation.

1 If a map is displayed, touch **Map view**.

2 Touch **Show POI icon**.

3 Touch **Gas Station**, **ATM**, **Restaurant**, **Parks/Recreation**, **Grocery Store**, or **Hotel** to display the corresponding POI.

- The corresponding POI landmarks appear.
- Repeat steps 1 to 3 to select up to 5 POI categories.
- Touch a selected POI to cancel corresponding POI marks.
- It is possible to change the POI landmarks displayed while driving. (See page 46)



Deleting a POI landmark

1 If a map is displayed, touch **Map view** .

2 Touch **Show POI icon** .

3 Touch **POI off** .

- Touch a selected POI to cancel corresponding POI marks.



Displaying multiple types

Multiple POI landmarks (maximum 5 categories) can be displayed simultaneously.

1 If a map is displayed, touch **Map view** .

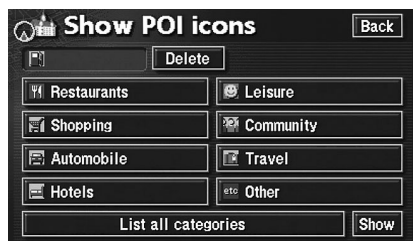
2 Touch **Show POI icon** .

3 Touch **More** .



4 Touch the POI category you want to display.

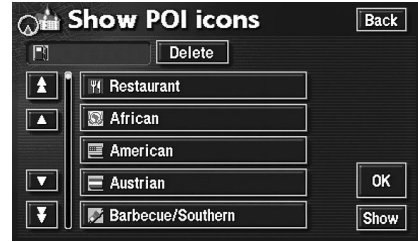
- Touch **List all categories** to list all POI categories.
- Touch **Show** to display the selected POI landmark on the map.



3. Map displays

5 Touch the POI categories you want to display.

- POI landmarks from up to 5 categories can be displayed simultaneously.
- Touch **Delete** to cancel, one at a time, categories selected by mistake.
- Touch a selected category again to cancel corresponding POI marks.






6 Touch **OK**.

- Repeat steps 3 to 5 to select up to 5 POI categories.
- Touch **Show** to display the selected POI landmark on the map.

7 Touch **Back**.

- The selected POI landmark is displayed.

Searching for a local POI

It is possible to display the names of POIs in the vicinity of the  /  mark as well as the distance in a straight line to those POIs. In the case of the  mark, it is also possible to display the direction.

1 If POI landmarks are displayed on the map, touch **Map view**.



2 Touch **Show POI icon**.

3 Touch **Local POI list**.





- A list of the selected POIs appears.



4 Touch the name of the POI you want to display.

- The map is shown with the selected POI in the center. The POI name and its distance to the present location in a straight line is also displayed.
- If the  mark is displayed, POIs ahead of it are shown with a  mark (arrow pointing upwards). (This is the position of the POI relative to the vehicle's directional heading).
- If a destination is set, a list of POIs along the route can be displayed. Refer to the Section "**Displaying a list of POIs along the set route**" on page 44.



- Landmarks can only be searched for within about 18 mile radius of the  or  mark (up to 200 landmarks).
- POI landmarks can be listed according to proximity to the  or , POI mark category, or POI name.

Distance order display





Category order display



Name order display



- Touch **Dist.** to reorder the list by proximity to the  or  mark.

- Touch **Icon** to reorder the list by POI mark category.

- Touch **Name** to reorder the list by POI name.

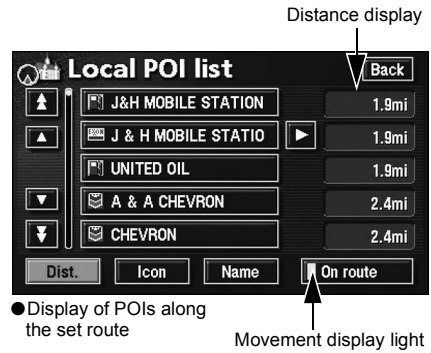
3. Map displays

Displaying a list of POIs along the set route

If a destination has been set, a list of POIs on the route and their distance and direction from the present location can be displayed. The distances shown represent distances left to travel to the POIs.

1 Touch **On route** .

- If a list displaying POIs along the set route is shown, the movement display light appears yellow.
- Touch the POI landmark to display its name and distance from the present location.



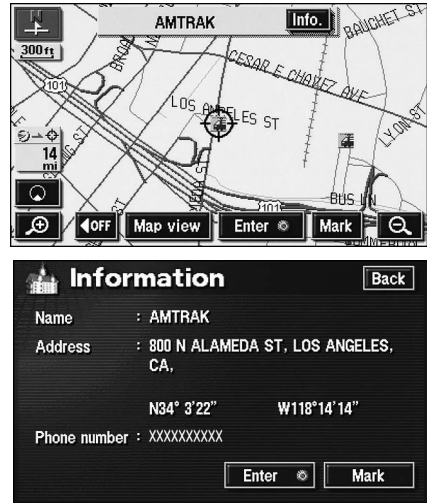
- Display of POIs along the set route



If a route is not displayed on the map shown on the screen, a list of POIs along the set route cannot be displayed.

Displaying POI information

- 1 Touch the POI landmark.
 - The POI name and distance from the present location are displayed.
- 2 Touch **Info.** when **Info.** is displayed.
 - The data for that POI is displayed.



There may not be a description available for some POIs.

3. Map displays

Setting the type of local POI to be retrieved while driving

The 6 items appearing in the local POI menu screen (**Gas Station** , **ATM** , **Restaurant** , **Parks/Recreation** , **Grocery Store** , **Hotel**) can be customized.

This local POI menu can be displayed even while driving, and POI landmarks can be displayed on the map screen.

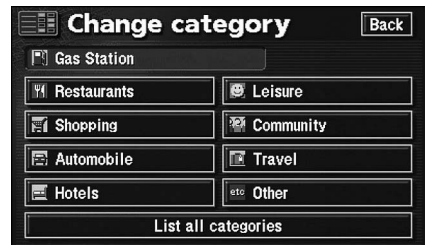
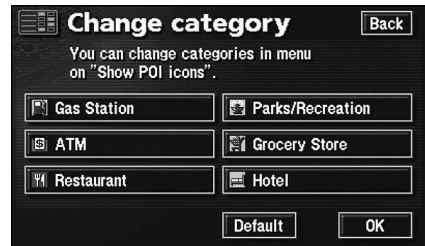
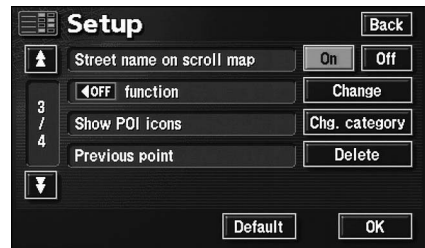
1 Touch **Setup** in the Menu screen.

2 Touch **Chg. category** for Show POI icons.

3 Touch the POI category you want to change.

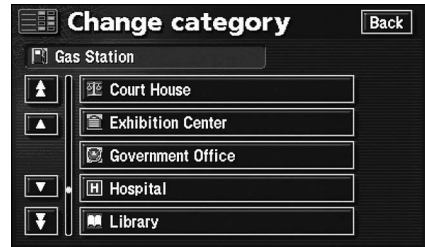
4 Touch the POI category you want to display.

- Touch **List all categories** to list all POI categories.

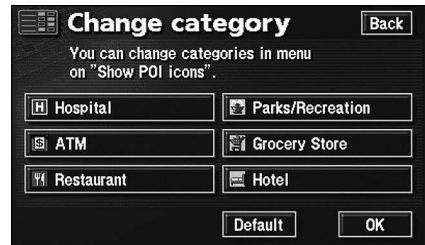


- Touch **Default** in screen 2 to return all items to their default settings.
- Touch **Default** in screen 3 to restore default settings for local POI categories selected for retrieving while driving.

5 Touch the POI you want to display.



6 Touch **OK**.

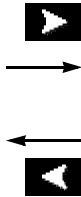


4. Map retrieval methods

There are various map retrieval methods available, which display maps depending on whether you are setting/adding a destination, or registering your home, a memory point, quick access point, or detour memory point.

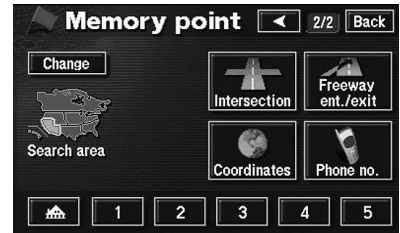
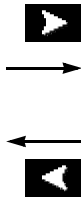
For procedures on how to select a map retrieval method, see the corresponding page for each item below.

- When setting a destination



- Setting a destination (See page 89)
- Adding a destination (See page 102)

- When registering a memory point














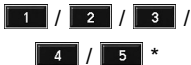
- Registering your home (See page 137)
- Registering memory points (See page 142)
- Registering quick access points (See page 154)
- Registering detour memory points (See page 158)

The above are examples of screens displayed when setting a destination and registering a memory point.

Touch the map retrieval method on the displayed menu screen to select an item.



When outside the area registered in the map data, the "No map data" message appears and this function cannot be used.

| Item (touch switch) | Function |
|-------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | By entering an address, the map corresponding to that point (or area) can be displayed. (See page 51) |
|  | By entering the name of a POI, the map corresponding to that POI's vicinity can be displayed. Also, enter the name of an address to display the map of that area. (See page 61) |
|  | By selecting a POI at the present location, a specified city, or a destination, you can display a map of the corresponding area. (See page 74) |
|  | It is possible to return to the map displayed before the map retrieval method screen was opened. |
|  | A map showing the vicinity of a memory point can be displayed. (See page 79) (Only when a memory point has been registered. See page 136 for information regarding memory points.) |
|  | A map showing the vicinity of either a previously set destination or a previous start point can be displayed. (See page 79) (Only when destination archives have been registered. See page 162 for information regarding destination archives.) |
|  | Intersections can be displayed by entering the names of two roads that cross each other. (See page 80) |
|  | A map can be displayed by indicating a freeway entrance/exit. (See page 82) |
|  | A map can be displayed by entering latitude and longitude coordinates. (See page 83) |
|  | By selecting a telephone number, you can display a map of the area corresponding to that telephone number. (See page 84) |
| Home  * | <When setting a destination> A route search is initiated with a registered point as the destination. [Only when points are registered.] |
| Vicinity of quick access points  | <When registering a memory point> A map of the registered point can be displayed. [Only when points are registered.] ● Registering your home (See page 137) ● Registering quick access points 1 to 5 (See page 154) |

* Icons are displayed once the corresponding memory point is registered.

4. Map retrieval methods

Changing the search area

The registered map data is divided into 9 areas comprising the U.S. and Canada.

Select the corresponding area before attempting to retrieve a map using the Address, POI, Intersection, or Freeway ent./exit search functions.

In the case of a Coordinates or Phone No. retrieval, the system will use data from all 9 areas.

1 Touch **Change** .



2 Touch the area where you want to initiate a search.

● See below for a list of all areas.

3 Touch **OK** .



1

California
Arizona
Nevada

2

Washington
Colorado
Oregon
Montana
Idaho
Utah
Wyoming

3

Texas
Arkansas
Louisiana
Oklahoma
New Mexico

4

North Dakota
South Dakota
Nebraska
Kansas
Minnesota
Iowa
Missouri
Michigan
Wisconsin
Illinois
Indiana

5

Tennessee
North Carolina
Mississippi
Alabama
Georgia
South Carolina
Florida

6

Ohio
Pennsylvania
Delaware
Maryland
West Virginia
Kentucky
Virginia
Washington, D.C.

7

Massachusetts
New Hampshire
Vermont
Maine
Connecticut
Rhode Island
New York
New Jersey

8

CANADA

9

HAWAII

Retrieving a map using an address

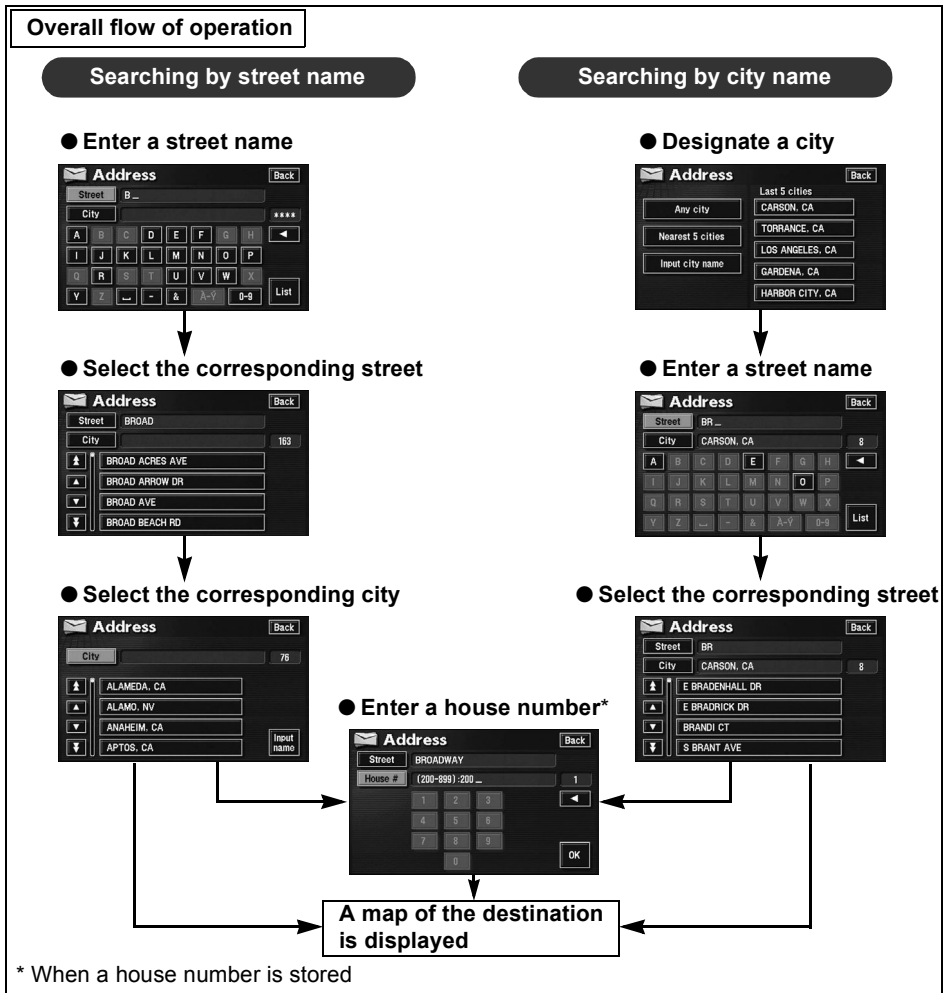
If you know the address for a desired location, you can retrieve a map using the street name or city name for that location. When searching using the Address function, select either "search by street name" or "search by city name".

● **To search for a destination using a street name:**

Enter a street name to narrow down the list of potential cities, then select the appropriate house number to display the map.

● **To search for a destination using "City":**

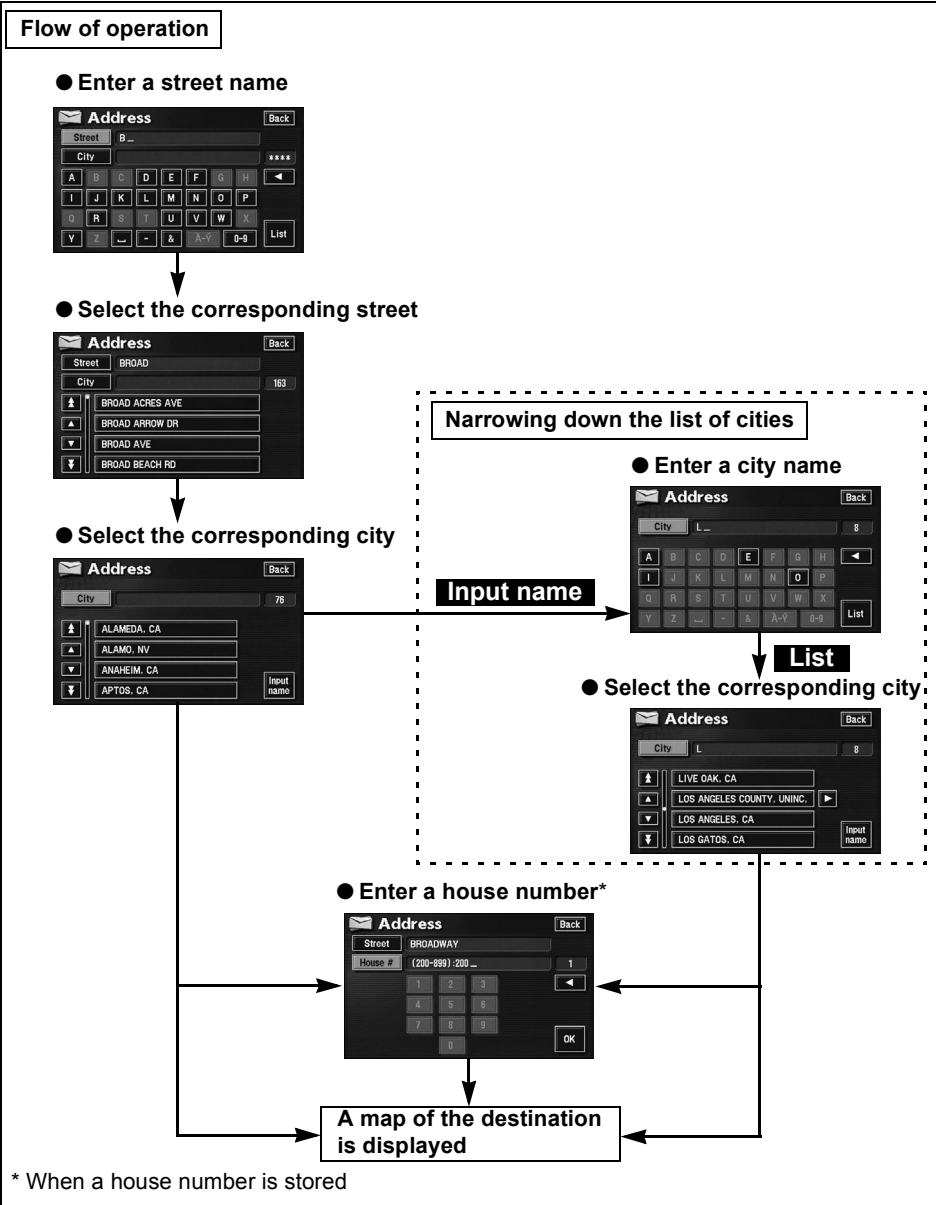
Enter a city to narrow down the list of potential street names, then select the appropriate house number to display the map.




4. Map retrieval methods

Searching by street name

Enter a street name to narrow down the list of cities, then designate a house number to display a map corresponding to your destination.



1 Touch one letter at a time to enter the street name.

- Up to 12 letters can be entered.
- Touch  to delete letters entered by mistake.
- Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.
- The number of street names is displayed as each letter is touched.



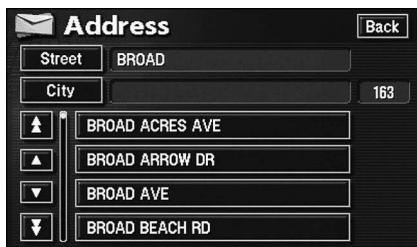
2 Touch **List**.

- A list of search results for the entered street name is displayed.



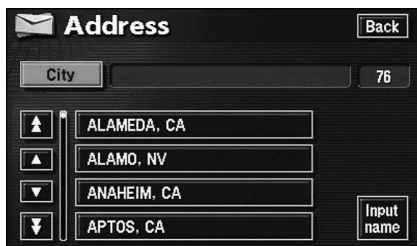
3 Touch the corresponding street name.

- A screen for selecting the city appears.



4 Touch the corresponding city name.

- Touch **Input name** to enter a city name and narrow down the list of possible cities.



ATTENTION


If the number of stored names corresponding to the letters you have entered reaches 5 or less, a screen automatically appears displaying the search results.

4. Map retrieval methods

5 Touch **Input name** .

- A screen for selecting the city appears.

6 Enter the city name one letter at a time.

- Up to 12 letters can be entered.
- Touch  to delete letters entered by mistake.
- Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.



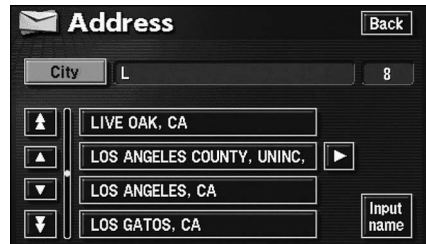
7 Touch **List** .

- A list of search results corresponding to the entered letters is displayed.




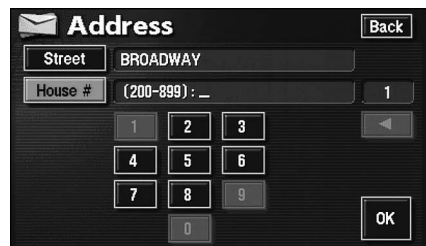
8 Touch the corresponding city name.

- A map centered on the corresponding street is displayed.
- The corresponding house number can be entered if it has already been registered.



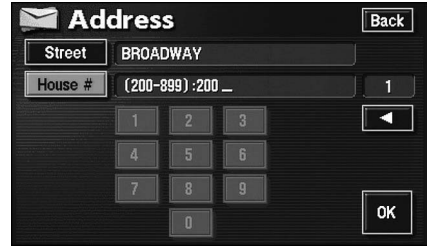
9 Touch one number at a time to enter the house number.

- Up to 12 numbers can be entered.
- Touch  to delete numbers entered by mistake.
- Numbered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.



10 Touch **OK** .

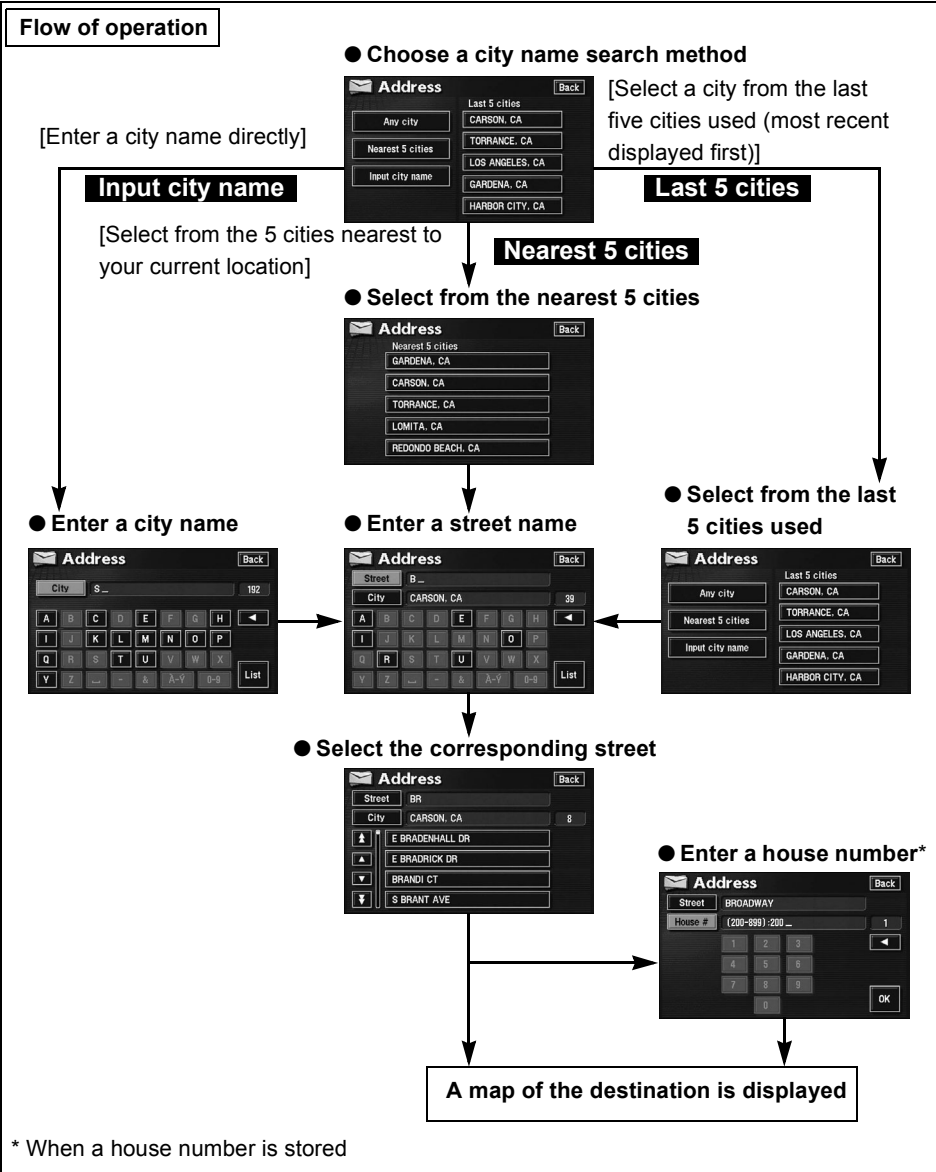
- A map showing the house number on the corresponding street and the vicinity is displayed.
- See "**Performing operations on a retrieved map**" on page 85 for information regarding the displayed map.



4. Map retrieval methods

Searching by city name

Search for a city using either the Nearest 5 cities, Input city name, or Last 5 cities function to narrow down the potential street names. Then designate a house number to display a map corresponding to your destination.



1 Touch **City** .

- A screen for selecting the city appears.

The screenshot shows the 'Address' screen with a 'Back' button in the top right. Below the title, there are two input fields: 'Street' with the text 'BROAD' and 'City' with the text '163'. Below these fields is a vertical list of city options: 'BROADWATER LN', 'BROADWAY', 'E BROADWAY', and 'N BROADWAY'. Navigation arrows (up, down, and double arrows) are visible on the left side of the list.

2 Touch the desired search method.

- **Nearest 5 cities** ... A city can be selected from the 5 cities nearest to the present location.
- **Input city name** ... A city name can be directly entered.
- **Last 5 cities** ... A city can be selected from the 5 most recently selected cities (new order). (Not available when using this function for the first time.)
- Touch **Any city** to cancel the city designated using the "search by street name" function. (See page 52)

The screenshot shows the 'Address' screen with a 'Back' button in the top right. Below the title, there are three buttons: 'Any city', 'Nearest 5 cities', and 'Input city name'. To the right of these buttons is a section titled 'Last 5 cities' containing five buttons with city names: 'CARSON, CA', 'TORRANCE, CA', 'LOS ANGELES, CA', 'GARDENA, CA', and 'HARBOR CITY, CA'.

Selecting Nearest 5 cities


1 Touch the corresponding city name.

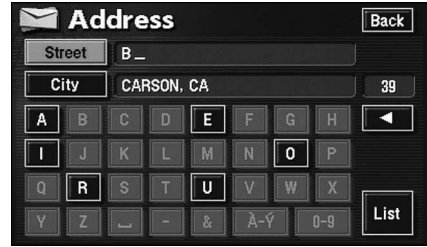
- The Enter Street Name screen appears.

The screenshot shows the 'Address' screen with a 'Back' button in the top right. Below the title, there is a section titled 'Nearest 5 cities' containing five buttons with city names: 'GARDENA, CA', 'CARSON, CA', 'TORRANCE, CA', 'LOMITA, CA', and 'REDONDO BEACH, CA'.

4. Map retrieval methods

2 Touch one letter at a time to enter the street name.

- Up to 12 letters can be entered.
- Touch  to delete letters entered by mistake.
- Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.



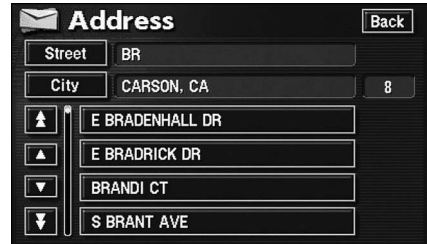
3 Touch **List**.

- A list of search results for the entered street name is displayed.




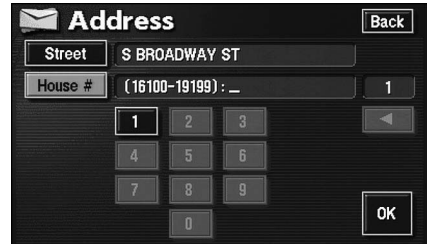
4 Touch the corresponding street name.

- A map centered on the corresponding street is displayed.
- The corresponding house number can be entered if it has already been registered.



5 Touch one number at a time to enter the house number.

- Up to 12 numbers can be entered.
- Touch  to delete numbers entered by mistake.
- Numbered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.



If the number of stored names corresponding to the letters you have entered reaches 5 or less, a screen automatically appears displaying the search results.

6 Touch **OK** .

- A map showing the house number on the corresponding street and the vicinity is displayed.
- See "**Performing operations on a retrieved map**" on page 85 for information regarding the displayed map.



Select Input city name

1 Enter the city name one letter at a time.

- Up to 12 letters can be entered.
- Touch **◀** to delete letters entered by mistake.
- Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.

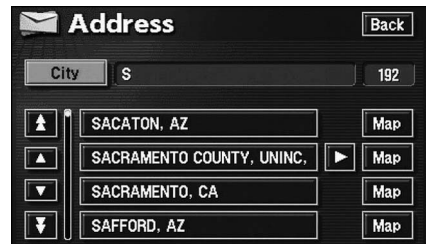


2 Touch **List** .

- A list of search results corresponding to the entered letters is displayed.

3 Touch the corresponding city name.

- The Enter Street Name screen appears.
- Touch **Map** to display a map of that city's surrounding area.



4 Touch one letter at a time to enter the street name.

- Up to 12 letters can be entered.
- Touch **◀** to delete letters entered by mistake.
- Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.



4. Map retrieval methods

5 Touch **List** .

- A list of search results for the entered street name is displayed.
- For information on operations in the list screen, see **4** under "**Selecting Nearest 5 cities**" on page 68.




Searching from the Last 5 cities list

1 Touch the corresponding city name.

- The Enter Street Name screen appears.



2 Touch one letter at a time to enter the street name.

- Up to 12 letters can be entered.
- Touch  to delete letters entered by mistake.
- Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.



3 Touch **List** .

- A list of search results for the entered street name is displayed.
- For information on operations in the list screen, see **4** under "**Selecting Nearest 5 cities**" on page 68.



Retrieving a map using a POI name

If you have partial information about a destination point, you can narrow down your search results by POI category or city in order to retrieve the corresponding map.

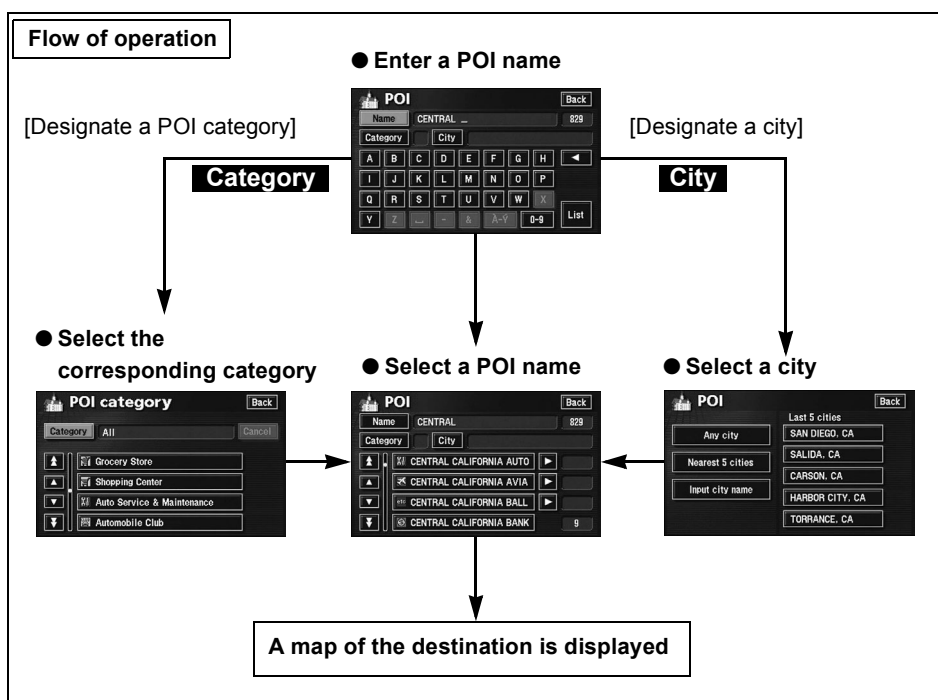
When the number of potential items is low, a map can be selected directly from the list screen.

● Narrowing down a destination point by POI category using **Category**

After entering a POI name, potential items are narrowed down by POI category and a list of results is displayed.


● Narrowing down a destination point by city using **City**

After entering a POI name, potential items are narrowed down by city and a list of results is displayed.



4. Map retrieval methods

1 Touch one letter at a time to enter the POI name.

- Up to 24 letters can be entered.
- Touch  to delete letters entered by mistake.
- Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.
- The number of POI names is displayed as each letter is touched.



2 Touch **List**.

- A POI list screen containing names searched for from the entered letters is displayed.

3 Touch the name of the POI you want to display.

- A map will appear.
- See "**Performing operations on a retrieved map**" on page 85 for information regarding the displayed map.
- If the number of potential items is high, narrow down the list by **Category** or **City** as described in **Flow of operation** on the previous page.



If the number of potential search results becomes 5 or less while in the process of entering letters, the POI Name List screen is automatically displayed.

Narrowing down by category

This is one way to narrow down the list of POI categories. This method is useful when the POI category of the destination is known. If the number of potential items is high, narrow down the list by **City** and start a search after having filtered out a number of items.

1 Touch **Category** on the POI list screen.

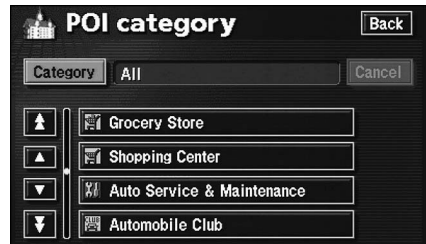


2 Touch the POI item you want to display.

- Touch **List all categories** to list all POI categories.

3 Touch the POI category you want to display.

- If the category is already set, touch **Cancel** to cancel.



4 Touch **List**.

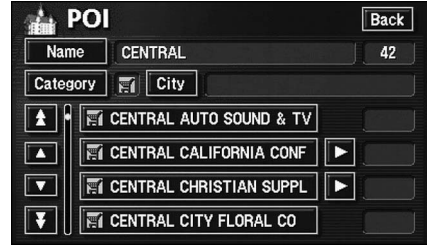
- A POI list screen containing names searched for from the entered letters is displayed.



POI categories are the same as listed in "POI display" (See page 38).

4. Map retrieval methods

- 5** Touch the name of the POI you want to display.
- A map will appear.
 - Touch **Name** to return to **1** under "Retrieving a map using a POI name" on page 62.
 - Touch **City** to designate a city for points listed on the POI list screen. (See page 68)
 - See "Performing operations on a retrieved map" on page 85 for information regarding the displayed map.



- 6** If there are multiple POIs, the number is displayed at the side of the list.
- Touch the name of the POI to display the list.



7 Touch the address you want to display.

- A map will appear.
- Touch **Name** to return to **1** under "Retrieving a map using a POI name" on page 62.
- See "Performing operations on a retrieved map" on page 85 for information regarding the displayed map.



- The POI list can be displayed either in alphabetical order or in the order of proximity to the or mark.
 - Touch **Name sort** to order alphabetically.
 - Touch **Dist. sort** to reorder the list in order of proximity to the or mark.
- POI type selection is set for 1 category. It is also possible to set in **Category** then narrow down by **City**.
- If there is no corresponding POI for the set category, no list will appear. Set a different category.
- Depending on the POI, the displayed geographical point is not always the actual location of that POI, but may represent the address of that location.
- The following cases may result in a search based on data that differs from general publications.
 - Facilities such as art museums in department stores and amusement parks may be located in areas that differ from their customer service centers.
- The address appearing in maps may contain the geographic name of a neighboring area. Also, the address may only appear in part or may be abbreviated.

4. Map retrieval methods

POI display types

| |
|----------------------|
| Restaurant |
| Restaurant |
| African |
| American |
| Austrian |
| Barbecue/Southern |
| Belgian |
| Bistro |
| Brewpub |
| British Isles |
| Cajun/Caribbean |
| Californian |
| Canadian |
| Chinese |
| Continental |
| Dutch |
| East European |
| Fast Food |
| Filipino |
| French |
| German |
| Greek |
| Grill |
| Hawaiian/Polynesian |
| Hungarian |
| Indian |
| Indonesian/Malaysian |
| International |

| |
|-----------------|
| Italian |
| Japanese |
| Jewish/Kosher |
| Korean |
| Latin American |
| Maltese |
| Mexican |
| Middle Eastern |
| Polish |
| Portuguese |
| Russian |
| Sandwich/Deli |
| Scandinavian |
| Seafood |
| South American |
| Southeast Asian |
| Southwestern |
| Spanish |
| Steak House |
| Swiss |
| Thai |
| Turkish |
| Vegetarian |
| Vietnamese |
| Other |
| Shopping |
| Grocery Store |
| Shopping Center |

| |
|----------------------------|
| Automobile |
| Auto Service & Maintenance |
| Automobile Club |
| Automobile Dealership |
| Gas Station |
| Parking Garage |
| Parking Lot |
| Rental Car Facility |
| Hotels |
| Hotel |
| Leisure |
| Amusement Park |
| Bowling Center |
| Casino |
| Golf Course |
| Ice Skating Center |
| Marina |
| Movie Theater |
| Night Club |
| Ski Resort |
| Sports Complex |
| Tourist Attraction |
| Winery |
| Community |
| Community Center |
| Court House |
| Exhibition Center |

| |
|-----------------------|
| Government Office |
| Hospital |
| Library |
| Parks/Recreation |
| Police Station |
| Post Office |
| Town Hall |
| Travel |
| Airport |
| Border Crossing |
| Bus Station |
| Commuter Rail Station |
| Ferry Port |
| Rest Area |
| Park & Ride |
| Railway Station |
| Tourist Information |
| Other |
| ATM |
| Bank |
| Business Facility |
| City Center |
| Historical Monument |
| Museum |
| School |
| Theater |
| University |

4. Map retrieval methods

Narrowing down by city

You can narrow down search results by city using the Nearest 5 cities, Input city name, and Last 5 cities functions. This is useful when you know the city of your destination point. If the number of potential items is high, narrow down the list by **Category** and start a search after having filtered out a number of items.

1 Touch **City** on the POI list screen.

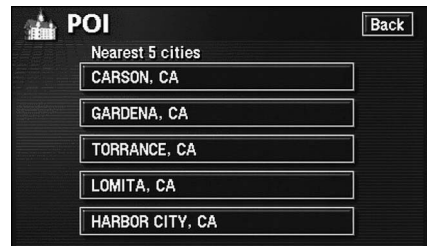
2 Select a city search method.

- **Nearest 5 cities** ... A city can be selected from the 5 cities in closest proximity to the present location.
- **Input city name** ... Search by entering a city name.
- **Last 5 cities** ... A city can be selected from the 5 most recently selected cities (new order). (Not available when using this function for the first time.)
- Touch **Any city** to cancel a city that has been selected.



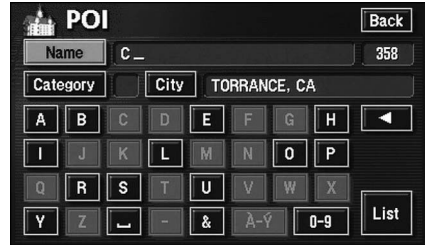
Selecting Nearest 5 cities

1 Touch the corresponding city name.



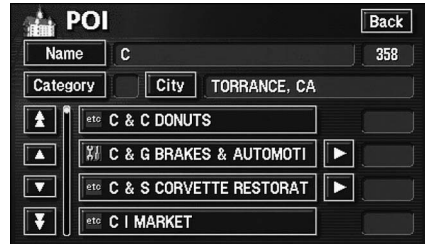
2 Touch **List**.

- A screen showing a list of POIs based on the search results for that city is displayed.



3 Touch the name of the POI you want to display.

- A map will appear.
- Touch **Name** to return to **1** under "Retrieving a map using a POI name" on page 62.
- The category corresponding to the POI displayed in the POI list screen can be specified by touching **Category**. (See page 63)
- See "Performing operations on a retrieved map" on page 85 for information regarding the displayed map.



4 If there are multiple POIs, the number is displayed at the side of the list.

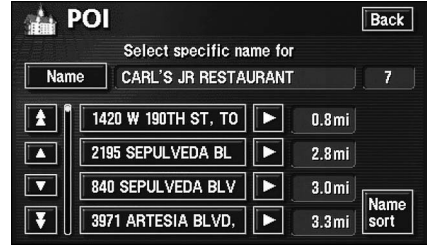
- Touch the name of the POI to display the list.





4. Map retrieval methods



5 Touch the address you want to display.

- A map will appear.
- Touch **Name** to return to **1** under "Retrieving a map using a POI name" on page 62.
- See "Performing operations on a retrieved map" on page 85 for information regarding the displayed map.




● The POI list can be displayed either in alphabetical order or in the order of proximity to the  or  mark.

• Touch **Name sort** to order alphabetically.

• Touch **Dist. sort** to reorder the list in order of proximity to the  or  mark.

Select Input city name

- 1 Enter a city name one letter at a time.
 - Up to 12 letters can be entered.
 - Touch  to delete letters entered by mistake.
 - Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.

- 2 Touch **List** .

- A list of search results corresponding to the entered letters is displayed.

- 3 Touch the corresponding city name.

- A screen showing a list of POIs based on the search results for that city is displayed.

- 4 Touch **List** .

- A screen showing a list of POIs based on the search results for that city is displayed.



If the number of stored names corresponding to the letters you have entered reaches 5 or less, a screen automatically appears displaying the search results.

4. Map retrieval methods

- 5 Touch the name of the POI you want to display.
 - A map will appear.
 - Touch **Name** to return to **1** under "Retrieving a map using a POI name" on page 62.
 - The category corresponding to the POI displayed in the POI list screen can be specified by touching **Category** . (See page 63)
 - See "Performing operations on a retrieved map" on page 85 for information regarding the displayed map.



Searching from the Last 5 cities list

1 Touch the corresponding city.

- A screen showing a list of POIs based on the search results for that city is displayed.



2 Touch the name of the POI you want to display.

- A map will appear.
- Touch **Name** to return to **1** under "Retrieving a map using a POI name" on page 62.
- The category corresponding to the POI displayed in the POI list screen can be specified by touching **Category**. (See page 63)
- See "Performing operations on a retrieved map" on page 85 for information regarding the displayed map.



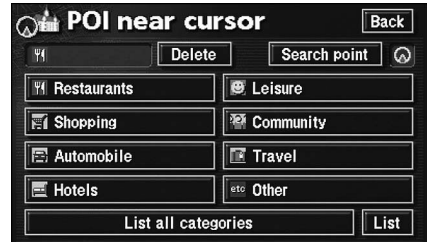
4. Map retrieval methods

Retrieving a map of the vicinity of a POI

A map can be retrieved of the vicinity of a POI using your present location, a specified city, or a destination (when a destination is set).

1 Touch the POI category.

- Up to 5 categories can be selected.
- Touch **Delete** to cancel categories selected by mistake.
- Touch a selected POI to cancel.
- Touch **List all categories** to list all POI categories.
- If you do not designate a search point, a list of POIs in the current vicinity will be displayed.



2 Touch **List**.

- A list of the selected POIs appears.
- It is possible to change the search point or category selection by touching **OK**.



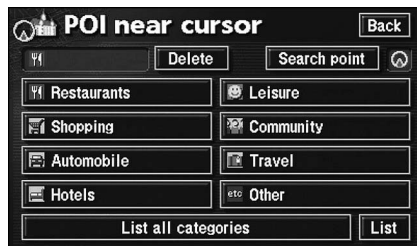
3 Touch the POI name.

- A map for the selected POI appears.
- Touch **Dist.**, **Icon**, **Name**, or **On route** to reorder the list. (See "Searching for a local POI" on page 42 or "Displaying a list of POIs along the set route" on page 44.)
- See "Performing operations on a retrieved map" on page 85 for information regarding the displayed map.



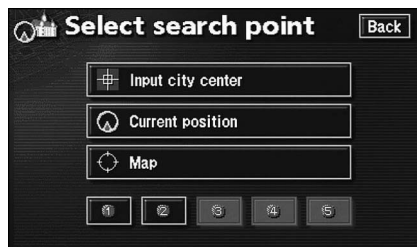
Displaying a POI by specifying a Search point

1 Touch **Search point** .



2 Touch the area corresponding to the POI you want to display.

- **Input city center** ... A map centering on the designated city can be displayed.
- **Current position** ... POIs in the vicinity of the present location can be displayed.
- **Map** ... POIs near the center of the map displayed prior to the POI near cursor screen can be displayed.
- **①** to **⑤** ... POIs in the vicinity of the set destination can be displayed.




Designating Input city center

1 Touch **Input city center** .



4. Map retrieval methods

- 2 Enter a city name one letter at a time.
- Up to 12 letters can be entered.
 - Touch  to delete letters entered by mistake.
 - Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.




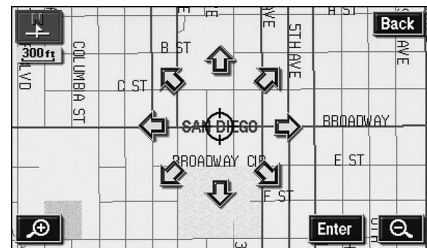
- 3 Touch **List**.
- A screen showing a list of POIs based on the search results for that city is displayed.



- 4 Touch the name of the city you want to display.
- A map will appear.



- 5 Touch **Enter**.
- The map can be moved by touching .



If the number of stored names corresponding to the letters you have entered reaches 5 or less, a screen automatically appears displaying the city search results.

6 Touch **List** .

- A list of the selected POIs appears.



7 Touch the POI name.

- A map for the selected POI appears.
- Touch **Dist.** , **Icon** , **Name** , or **On route** to reorder the list. (See "Searching for a local POI" on page 42 or "Displaying a list of POIs along the set route" on page 44.)
- See "Performing operations on a retrieved map" on page 85 for information regarding the displayed map.



Specifying Current position, Map, or ① to ⑤ (destinations)


1 Touch **Current position** , **Map** , or ① to ⑤ (destinations).

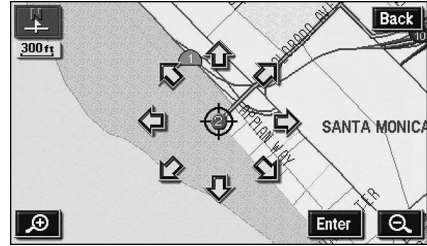
- If **Current position** is touched, a map showing the vicinity of the present location is displayed.
- If **Map** is touched, the map displayed prior to the POI near cursor screen is displayed.
- If ① to ⑤ is touched, a map showing the vicinity of the selected destination is displayed.



4. Map retrieval methods

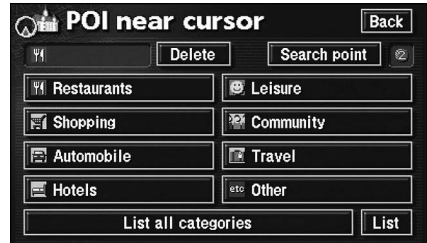
2 Touch **Enter** .

- The map can be moved by touching .



3 Touch **List** .

- A list of the selected POIs appears.



4 Touch the POI name.

- A map for the selected POI appears.
- Touch **Dist.**, **Icon**, **Name**, or **On route** to reorder the list. (See "Searching for a local POI" on page 42 or "Displaying a list of POIs along the set route" on page 44.)
- See "Performing operations on a retrieved map" on page 85 for information regarding the displayed map.



Retrieving a map using a memory point

If some memory points have been registered in advance (see **"Registering memory points"** on page 142), a map can be retrieved using one of these points.

1 Touch the POI you want to display from the list.

- A map of the memory point will appear.
- See **"Performing operations on a retrieved map"** on page 85 for information regarding the displayed map.

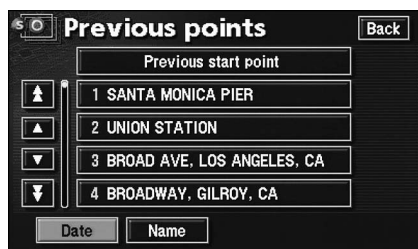


Retrieving a map using the archive

The most recently set destinations (maximum 99 points) are automatically registered and a map for each of these points can easily be retrieved.

1 Touch the destination archive you want to display from the list.

- The map for a previously set destination is displayed.
- If **Previous start point** is touched, the start point map from the previous route guidance session is displayed.
- See **"Performing operations on a retrieved map"** on page 85 for information regarding the displayed map.




- Destination archives can be listed alphabetical order or in date order (most recent first).
 - Touch **Date** to reorder by date (most recent first).
 - Touch **Name** to order alphabetically.
- Your home and quick access points are not registered in the destination archive.
- See Refer to the Section **"Deleting destination archives"** on page 162 for deleting destination archives.

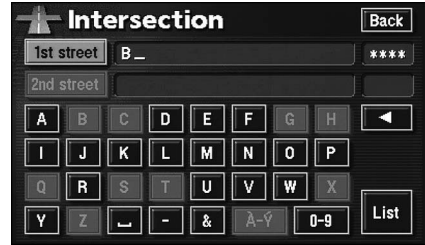
4. Map retrieval methods

Retrieving a map using an intersection name

An intersection can be retrieved from 2 intersecting streets.

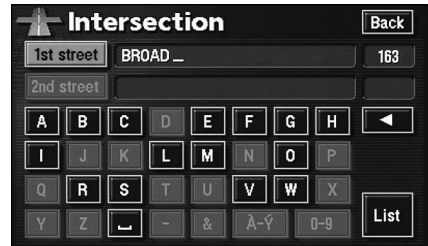
1 Enter a street name one letter at a time.

- Up to 24 letters can be entered.
- Touch  to delete letters entered by mistake.
- Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.
- The number of street names is displayed as each letter is touched.

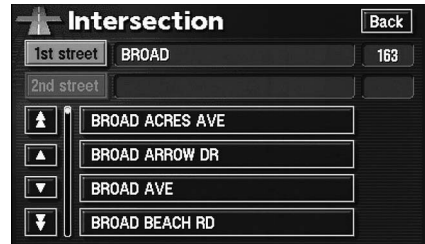


2 Touch **List**.

- A list of search results for the entered street name is displayed.




3 Touch the corresponding street name from the list.



If the number of stored names corresponding to the letters you have entered reaches 5 or less, a screen automatically appears displaying the search results.

4 Enter a second street name one letter at a time.

- Up to 24 letters can be entered.
- Touch  to delete letters entered by mistake.
- Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.
- The number of street names is displayed as each letter is touched.

5 Touch **List**.

- A list of search results for the entered street name is displayed.
- If there is only one corresponding street name, the corresponding map appears.

6 Touch the corresponding street name from the list.

- The map retrieved from the entered street names appears.
- See **"Performing operations on a retrieved map"** on page 85 for information regarding the displayed map.
- If there are more than two intersections for the designated streets, the select city screen in **7** is displayed.

7 Touch a city from the list.


- A map is displayed for that city.
- See **"Performing operations on a retrieved map"** on page 85 for information regarding the displayed map.



4. Map retrieval methods

Retrieving a map using a freeway entrance/exit name

A map can be retrieved using the name of a freeway or a freeway entrance/exit.

- Enter the freeway name by touching the switches on the screen.
 - Up to 24 letters can be entered.
 - Touch  to delete letters entered by mistake.
 - Lettered touch switches with no corresponding search result will appear inverted. Input is not enabled for these switches.
 - The number of freeways is displayed as each letter is touched.



- Touch **List**.
 - A list of search results for the entered freeway is displayed.
 - If there is only one corresponding freeway, screen **4** will appear.



- Touch the freeway name you want to display.



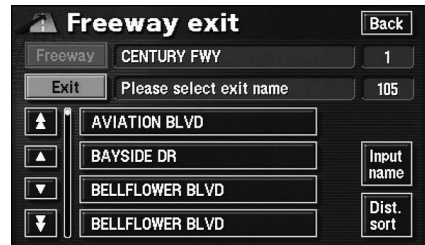
If the number of stored names corresponding to the letters you have entered reaches 5 or less, a screen automatically appears displaying the search results.

- 4 Touch **Entrance** or **Exit** to specify a freeway entrance or exit.





- 5 Touch the name you want to display from the list.

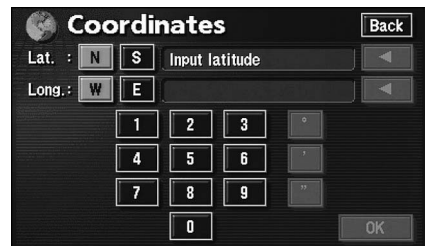
- A map corresponding to that entrance/exit is displayed.
- The entrance/exit name can be entered by touching **Input name**.
- Touch **Dist. sort** (**Name sort**) to reorder in order of proximity to the present location (alphabetical order).
- See "Performing operations on a retrieved map" on page 85 for information regarding the displayed map.



Retrieving a map using the latitude/longitude

A map can be retrieved using the latitude/longitude.

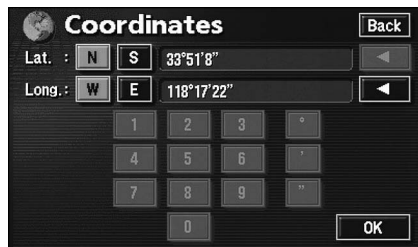
- 1 Touch one number at a time to enter the latitude.
- Touch  to delete numbers entered by mistake.
- 2 Touch one number at a time to enter the longitude.
- Touch  to delete numbers entered by mistake.



4. Map retrieval methods

3 Touch **OK** .


- The map retrieved from the entered latitude and longitude appears.
- See "**Performing operations on a retrieved map**" on page 85 for information regarding the displayed map.



Retrieving a map using a telephone number

Enter a telephone number if you know it. A map of that POI's vicinity can be displayed if the number belongs to a registered POI, and if the number is not registered the system can instead display a vicinity map for the corresponding area code. If a telephone number has been set for a memory point (see "**Entering a telephone number for a memory point**" on page 150), it is possible to retrieve maps for memory or quick access points as well.

1 Enter the number by touching the switches on the screen.

- Touch  to delete numbers entered by mistake.



2 Touch **OK** .

- The map retrieved from the entered telephone number appears.
- See "**Performing operations on a retrieved map**" on page 85 for information regarding the displayed map.

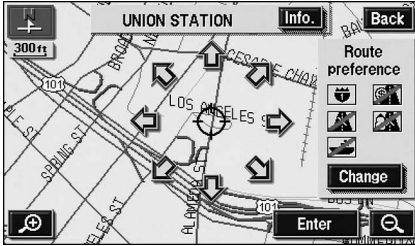


- Touch **N** or **S** to switch between north and south latitude.
Touch **W** or **E** to switch between west and east longitude.
- If the entered point is outside the area registered in the map data, a map cannot be displayed. The area registered is N24°0'0" to N64°39'59", W61°0'1" to W141°0'0".

5. Performing operations on a retrieved map

You can display point information or perform a search on a retrieved map. It is also possible to set route search conditions on a map retrieved using a destination point (see the next page).

Performing operations on a displayed map



The following operations are enabled on a retrieved map.

■ Changing the position

Scroll to change the position.


■ Displaying point information

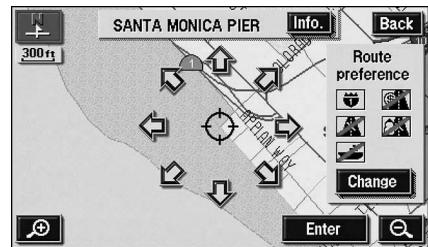
Shows point information for the displayed POIs.

■ Setting route search conditions

Set conditions for a route search.

Changing the position

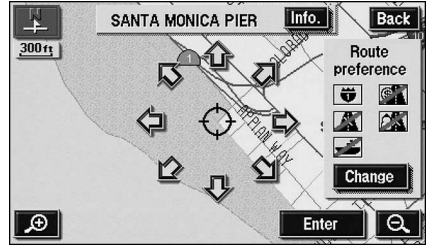
- 1 Touch  to move the map.



5. Performing operations on a retrieved map

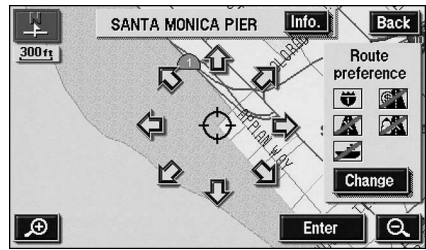
Displaying point information

- 1 Touch **Info.** .
 - Point information is displayed.



Setting route search conditions

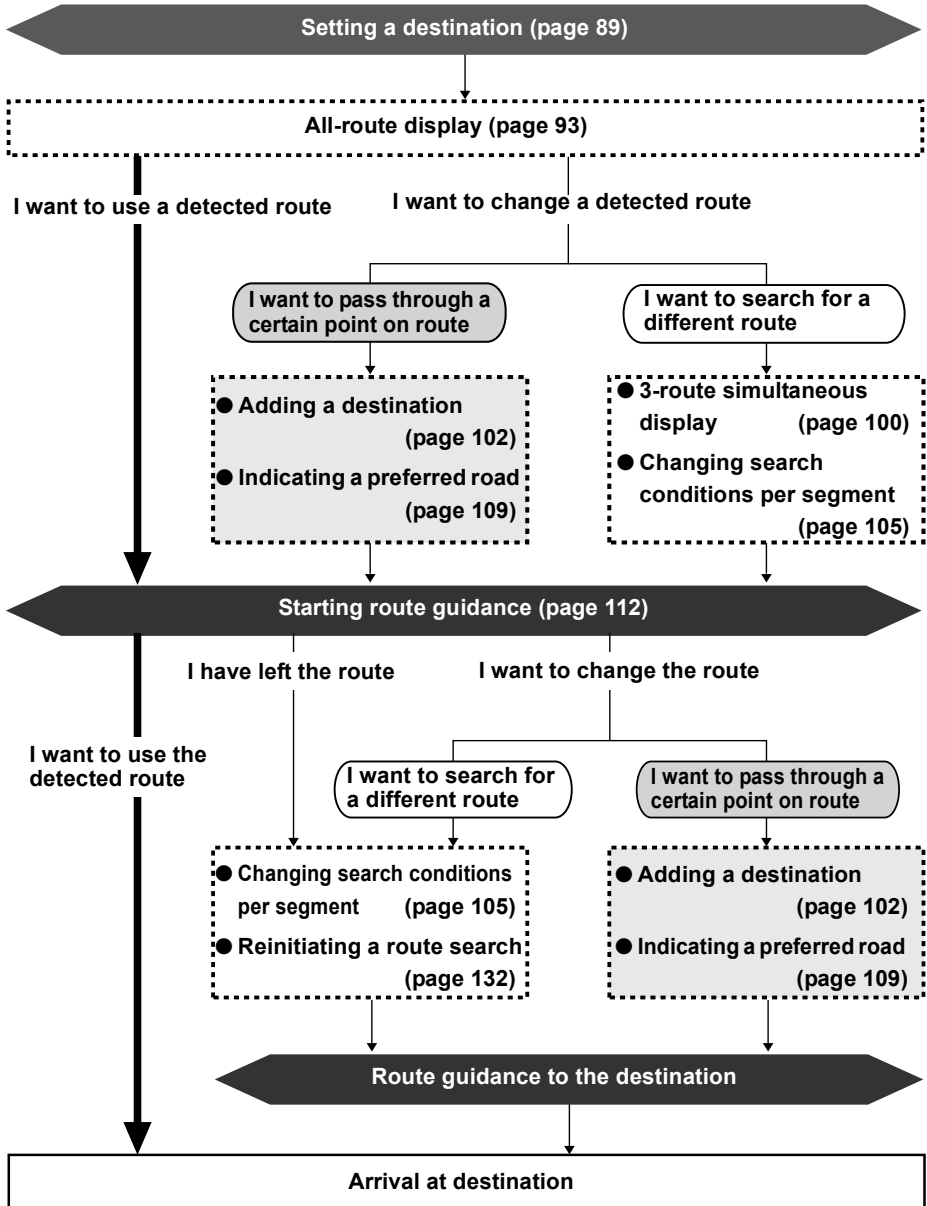
- 1 Touch **Change** .
 - A route preference screen is displayed.



There may not be a description available for some points.

1. Setting the destination and searching for a route

Route search conditions and destination settings/new route additions need to be completed in order to perform a route search for route guidance to a particular destination.



2. Set a destination and search for a route

Route guidance begins after setting your destination.

The destination is set as per the following methods:

- Set by directly moving the map
- Set using a registered point (your home, quick access point)
- Set using the map retrieval method

| Item | Setting method |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Set by directly moving the map | Scroll the map and touch Enter to set the destination. |
| Set from a registered point | Set your home as the destination only if your home is registered. This cannot be used if your home is not registered. (See "Registering your home" on page 137) |
| | Set an already registered quick access point (up to 5 points) as the destination. This cannot be used if there are no quick access points registered. (See "Registering quick access points" on page 154) |
| Setting using map retrieval methods | Search using a map retrieval method to set a destination. (See "Map retrieval methods" on page 48) |

A Quick1 search automatically starts when a destination point is set.

If you would like to use a route other than Quick1, add a destination, or set stops along the way, do so after the route search is completed.



- When setting the destination, use a detailed map with a reduction scale of under 0.5 miles.
- Geographical points on maps representing set destinations are automatically registered (up to 100 points) and can be used to retrieve a map when setting a destination. When exceeding 100 points, the oldest entry is deleted every time a new one is entered. Unnecessary points can be deleted. (See **"Deleting destination archives"** on page 162)

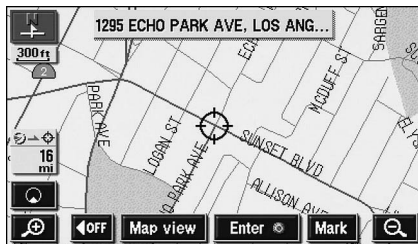
Setting a destination

Setting by directly moving the map






A destination can be set in the currently displayed map.

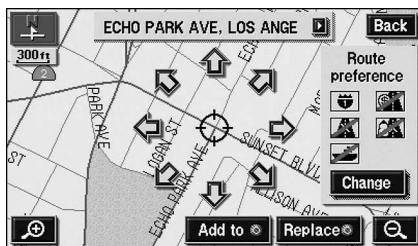
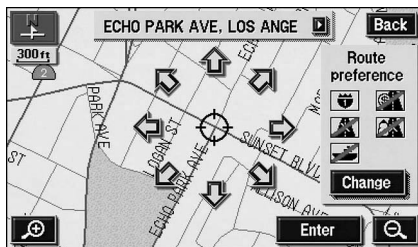
1 Touch the map.

2 Touch **Enter** .



3 Touch **Enter** .

- The map can be moved by touching .
- Route search conditions can be changed by touching **Change** in the Route preference box. See "Setting route search conditions" on page 96 and "Displaying or bypassing a restricted segment" on page 96.
- The  mark is displayed in the same position as  and the route search starts.
- If a destination is already set, touch **Replace**  to delete the set destination and set a new one.
- If **Add to**  is touched, the destination will be added as the next destination after the present location.



If a map with a reduction scale greater than 0.5 miles is displayed, switch to a 0.5 mile reduction scale.

2. Set a destination and search for a route



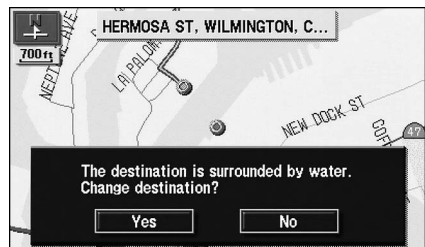
● If the destination is on a freeway or in an inaccessible area, the following screen will appear. Touch the item corresponding to the situation.

- Touch **Yes** to set the destination on the freeway.
- Touch **No** to set the destination on a different road.




● If the destination is inaccessible or if there is a river, railroad or other obstruction in its vicinity, the following screen may be displayed.

- Touch **No** to set that point as the destination.
- Touch **Yes** to change the destination.







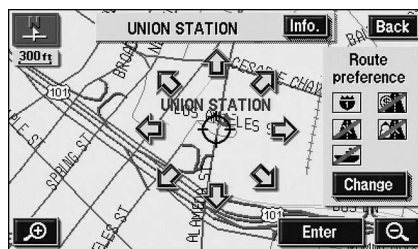
● If a route search is conducted on a freeway or toll road interchange (IC), the search result route may start from a nearby local road. Should this happen, reinitiate the route search (See page 132).

Set from a registered point

- 1 Press **DEST** .
- 2 Touch  or a quick access point **1** to **5** .

- 3 Touch **Enter** .

- The map can be moved by touching  .
- Route search conditions can be changed by touching **Change** in the Route preference box. See "Setting route search conditions" on page 96 and "Displaying or bypassing a restricted segment" on page 96.
- The  mark is displayed in the same position as your home/quick access point, and route search starts.
- If a destination is already set, touch **Replace**  to delete the set destination and set a new one.
- Touch **Add to**  to add a destination. (See "Adding a destination" on page 103 **5** - **6**)






- The home icon that appears on the map retrieval screen is the icon that was selected when you registered your home.
- The icons that appear for quick access points **1** - **5** are those selected when the points were registered.

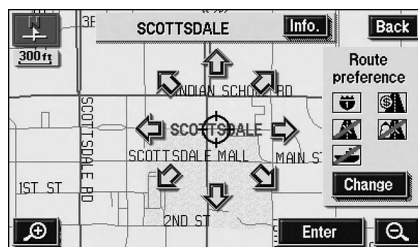
2. Set a destination and search for a route



Set using a map retrieval method

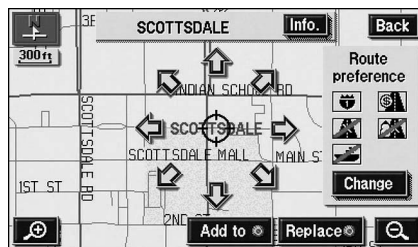
- 1 Press **DEST** .
- 2 Select the map retrieval method to display the map on which a destination is to be set.
 - See "**Map retrieval methods**" and "**Performing operations on a retrieved map**" (pages 48 and 85)



- 3 Touch **Enter** .
 - The map can be moved by touching .
 - Route search conditions can be changed by touching **Change** in the Route preference box. See "**Setting route search conditions**" on page 96 and "**Displaying or bypassing a restricted segment**" on page 96.
 - The  mark is displayed in the same position as  and the route search starts.



- If a destination is already set, touch **Replace**  to delete the set destination and set a new one.
- Touch **Add to**  to add a destination. (See "**Adding a destination**" on page 103 **5** - **6**)



Route search

Set a destination and a route search will automatically start.

- A route search will continue even if switching to other screens.
- The route will not appear if the distance to the destination is too short.
- When a route search is complete, an all-route display (all routes from the present location to the destination) screen will appear.

All-route display

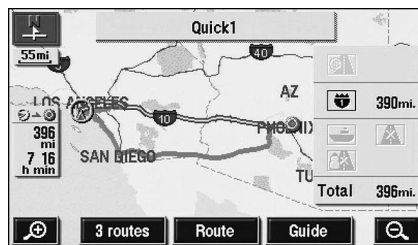
When the route search is complete, an all-route display screen appears.

- Press **NAVI** after the all-route screen appears, or do not operate the device for at least 3 seconds after you start driving, and route guidance will automatically begin.

Route displays

The routes will be displayed in the following 3 colors.

- **Blue**
Represents present segment up to the next destination when one or several destinations are set.
- **Purple**
Represents segments other than the present segment when several destinations are set.
- **Orange**
Represents restricted segments. (See page 96)



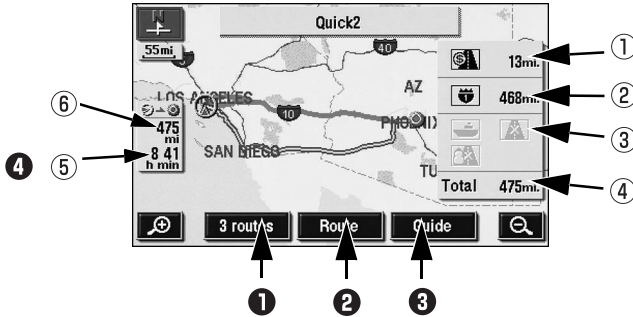
- Route search complete screen (all-route)

2. Set a destination and search for a route

All-route display and touch switches

The all-route display shows the route from the present location to the destination as well as the required time and distance.

Also, the search result routes can be changed and the guidance data can be displayed.



■ Displays

Data up to the final destination is displayed.

- ① **Toll road distance display**
Displays the distance on all toll roads to the destination.
- ② **Freeway distance display**
Displays the total distance on all freeways to the destination.
- ③ **Ferry crossings / Restricted segment display**
Displays whether or not the proposed route to the destination includes ferry crossings or segments restricted by time/season.
- ④ **Distance display**
Displays the total distance (all roads) to the destination (final destination when multiple destinations are set).
- ⑤ **Required time display**
Displays the required time to the destination.
- ⑥ **Remaining distance display**
Displays the remaining distance to the destination along the displayed route. If you deviate from the route after route guidance has started, the distance to the destination in a straight line is indicated.

■ Touch switches

The following operations are performed using the touch switches on the all-route display screen.

① 3 routes

It is possible to select from the different routes displayed. (See page 100)

② Route

It is possible to change the route search conditions if the route modification screen is displayed.

Also, indicating an additional transit route to the destination is possible. (See pages 102, 105 and 109)

③ Guide

Route guidance or a demonstration can be initiated. (See page 112)

After route guidance has started, the display returns to the present location screen.

④ If there are more than 2 destinations set, the displayed destination can be switched by touching the remaining distance display (See page 129).

If you deviate from the route after route guidance has started, the distance to the destination in a straight line is indicated.



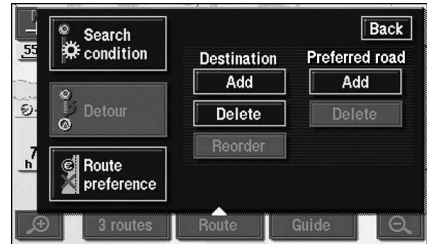
- The search result route is a reference route to the vicinity of the destination. In no way is it the shortest, fastest or least congested route.
- The required time is calculated using the average speed of your vehicle. (See page 124). Therefore, there may be slight variations depending on driving conditions.
- In the following situations, 3 routes cannot be displayed:
 - When 2 or more destinations are set
 - When a preferred road is indicated
 - After route guidance has started
- An all-route display can be displayed even after route guidance has started. (See page 129)

2. Set a destination and search for a route

Setting route search conditions

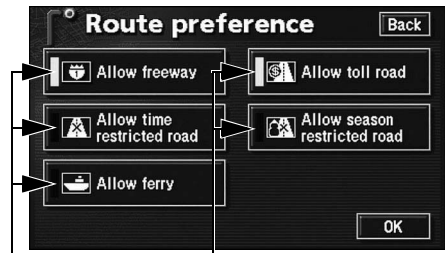
1 Touch **Route** in the all-route display screen or present location screen.

2 Touch **Route preference**.



3 Touch the switches to activate route preferences. This illuminates the corresponding movement display lights.

- The movement display lights turn off when searching for a route with no detour conditions.



Movement display light

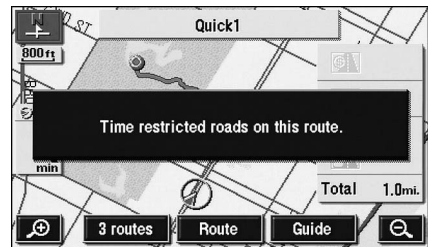
4 Touch **OK**.

- A route search is initiated.

Displaying or bypassing a restricted segment

When a route contains segments restricted by date/time and segments restricted for extended periods (such as roads closed through the winter) these segments are represented by an orange route with blue outline.

It is possible to have a message displayed on the screen when this condition arises.



- Time restricted segment display

- When not included in the map data, restricted segments do not change color and no message is displayed.

Bypassing a restricted segment

1 Touch **Route** in the all-route display screen or present location screen.

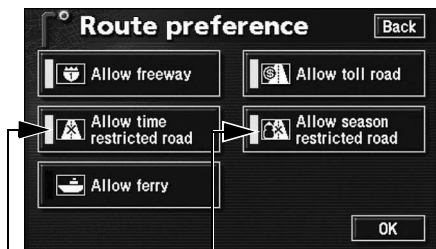
2 Touch **Route preference**.

3 To search for a route that bypasses time-restricted roads, touch **Allow time restricted road**. To search for a route that bypasses season-restricted roads, touch **Allow season restricted road**. When these switches are touched their respective movement display lights turn off.

- When searching for a route allowing all restricted roads, the movement display light turns on.

4 Touch **OK**.

- A route search is initiated.



Movement display light

2. Set a destination and search for a route

Setting the restriction message display

You can choose to display (ON) or not display (OFF) a message that notifies you of route search including restricted segments.

1 Touch **Setup** in the Menu screen.

2 Touch **On** or **Off** for Notify traffic restriction.

- The selected touch switch will turn green.

3 Touch **OK**.

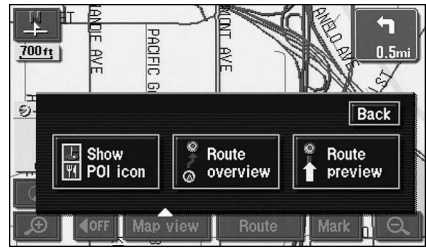


Touch **Default** in the Setup screen to return all items to their default settings.

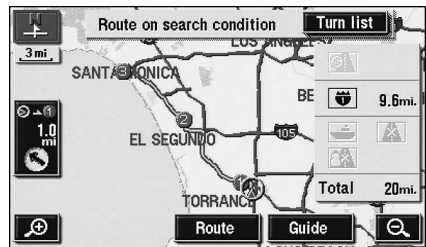
Displaying route data (guidance road information)

The route to the destination can be segmented by set points, exits/entrances of interchanges, names of streets on route and a list of distances for every segment displayed. A map of the departure or destination area can also be displayed.

- 1 Touch **Map view** in the present location screen.
- 2 Touch **Route overview** .
 - The all-route display screen appears.




- 3 Touch **Turn list** .




- The route data display is divided into interchange entrances, interchange exits, junctions, destinations, preferred roads, and turning points in the road.
- The route data display shows road names, distance, and turning directions at junctions.



- 4 Touch **Map** .
 - The map for each point is displayed.



ATTENTION

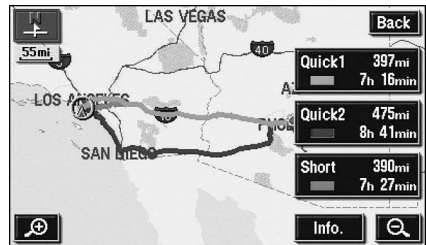
- If the present location is on the route, the vehicle position mark  is displayed on the route data screen.
- If the present location is not on the route (if you have deviated from the route), the data displayed will from the point being displayed.

2. Set a destination and search for a route

3-route simultaneous display (3-route search function)

When you set the destination, the system will search for a recommended route and show an all-route display from your present location to the destination. A total of 3 recommended routes will be displayed (Quick 1, Quick 2 and Short), from which you may select one.

- 1 Touch **3 routes** in the all-route display screen.
 - 3 routes will be displayed in different colors along with the distance and required time.
- 2 Touch the route name.
 - The selected route is displayed and the all-route display screen appears.



- Touch **Info.** to display the required time and distance for the 3 routes.
 - ① Required time
 - ② Total distance
 - ③ Toll road distance
 - ④ Freeway distance
 - ⑤ Ferry crossing distance

| 3 routes information | | Quick1 | Quick2 | Short |
|----------------------|-------------------------|------------|------------|------------|
| ① | Required time | 7 h 16 min | 8 h 41 min | 7 h 27 min |
| ② | Total distance | 397 miles | 475 miles | 390 miles |
| ③ | Toll road distance | 0.0 miles | 13 miles | 0.0 miles |
| ④ | Freeway distance | 390 miles | 468 miles | 357 miles |
| ⑤ | Ferry crossing distance | 0.0 miles | 0.0 miles | 0.0 miles |



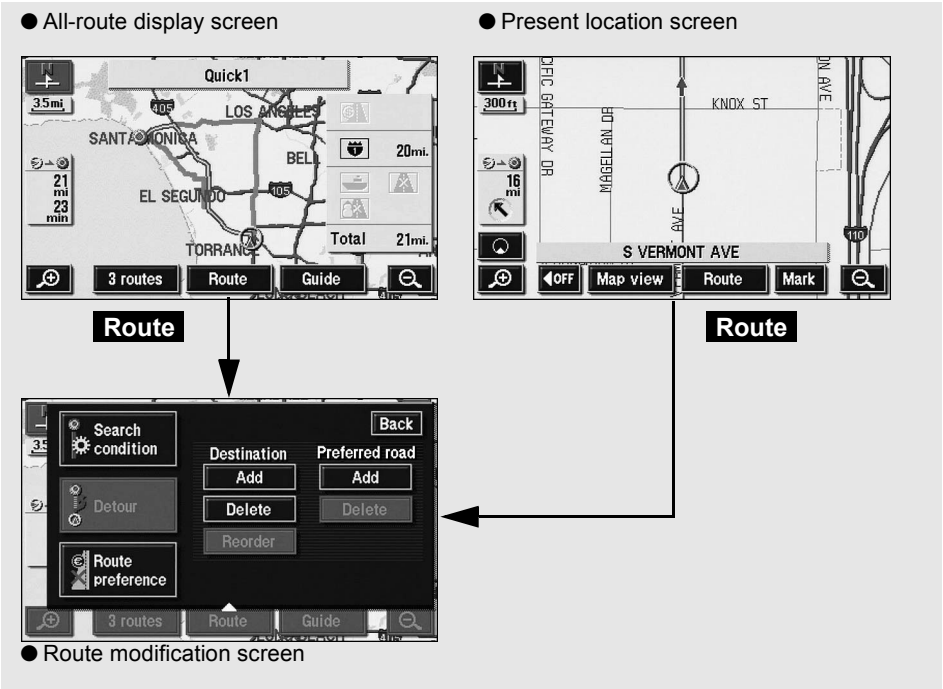
ATTENTION

- In the following situations, 3 routes will not appear simultaneously.
 - When 2 or more destinations are set.
 - When transit points (preferred roads) are indicated.
 - After route guidance has started.
- Refer to the Section **"Reinitiating a route search"** on page 132 for information regarding features of the 3 routes.
- The required time is calculated using the average speed of your vehicle (See page 124). Therefore, there may be slight variations depending on driving conditions.

3. Changing the search result route

After a route search is complete, the route can be changed by adding a destination or preferred road. The following are methods for changing the route.

- Touch **Route** on the all-route display screen or the present location screen (during route guidance) to display the route modification screen.
The route modification method is set on the route modification screen.



Navigation guidance

- Adding a destination Page 102
- Changing search conditions per segment..... Page 105
- Switching the destination order..... Page 106
- Deleting a destination Page 108
- Indicating a preferred road Page 109
- Canceling a preferred road indicationPage 111



The operations described here cannot be performed if a destination is not set.

3. Changing the search result route

Adding a destination

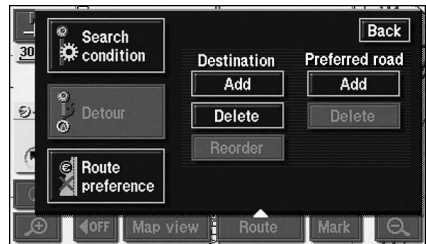
After setting a destination, up to 5 more destinations can be set.

In the following situations, set an additional destination.

- When setting a transit point between the present location and set destination.
- When changing the set destination into a transit point and setting a new destination.

Using the same method as for setting a destination, touch **Add to** to add a new destination. (See **"Setting by directly moving the map"** on page 89, **"Set from a registered point"** on page 91 and **"Set using a map retrieval method"** on page 92).

- 1 Touch **Route** .
- 2 Touch **Add** for Destination.





- 3 Select the map retrieval method to display the map on which a destination is to be set.
 - **"Map retrieval methods"** and **"Performing operations on a retrieved map"** (page 48, 85).

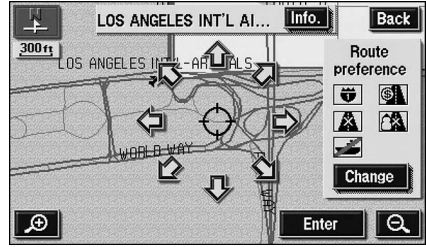


ATTENTION

- Destinations can be set using detailed maps with a reduction scale under 0.5 miles.
- Geographical points on maps representing set destinations are automatically registered (up to 100 points) and can be used to retrieve a map when setting a destination. After exceeding 100 points, the oldest entry is deleted every time a new one is entered. Unnecessary points can be deleted. (Refer to the Section **"Deleting destination archives"** on page 162.)
- If stops along the way are set, they could be deleted from the route when you add a new destination, depending on the location of the points involved.
- When 2 or more destinations are set, **Reorder** appears.

4 Touch **Enter** .

- The  mark is displayed in the same position as  .
- Up to a maximum of 5 destinations can be set.
- When 5 destinations are already set, delete a destination and proceed. When deleting unnecessary destinations, Refer to the Section "**Deleting destination archives**" on page 162.



5 Touch **Add** in the segment you want to set.



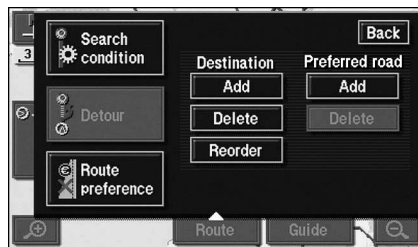
6 When a preferred road is indicated, a cancellation screen may appear.

- Touch **Yes** to cancel the preferred road indication and initiate a route search.
- Touch **No** to set the destination without canceling the indication.



3. Changing the search result route

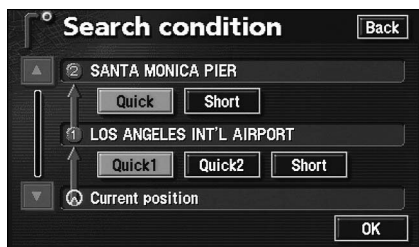
- After setting the destination, the following operations can be performed from this screen:
 - Changing search conditions by segment (page 105)
 - Changing search conditions (page 96)
 - Switching the destination order (page 106)
 - Deleting a destination (page 108)
 - Indicating a preferred road (page 109)
 - Canceling a preferred road indication (page 111)
- To add more points or set another destination, touch **Add** for Destination. When the screen shown in **3** (page 102) is displayed, repeat steps **3** - **6**.



Changing search conditions per segment

The search conditions per segment can be changed and a search reinitiated.

- 1 Touch **Route** .
- 2 Touch **Search condition** .
- 3 Touch the search conditions (for each route) per individual segment.
- 4 Touch **OK** .
 - A route search is initiated.



- Refer to the Section "**Reinitiating a route search**" on page 132 for information regarding search conditions.
- **Quick2** displays the segments from the current location to the next destination point.

3. Changing the search result route

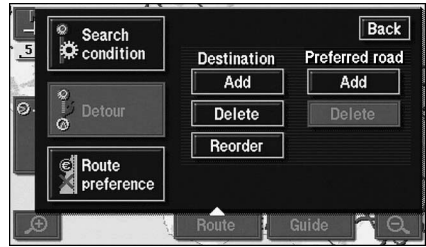
Switching the destination order

The order of multiple destinations can be switched and a search reinitiated.

1 Touch **Route** .

2 Touch **Reorder** .

- If a preferred road is set, a message appears warning you that changing the order will cancel preferred roads.
- Touch **Yes** to delete and proceed.
- Touch **No** to cancel the reorder operation and return to the original screen.



3 Touch destination names in the order you want to arrive after leaving the present location.

- A new order will appear on the right of the selected destination names.
- If you make a mistake, touch **Cancel** to delete the selected destination name.



4 Touch **OK** .

- A route search is initiated.
- When the new destination order has been determined, the route modification screen will appear automatically after about 3 seconds without you having to touch **OK** .
- When you want to change only one destination without touching all the destination names, touch only the destination you want to change and touch **OK** to advance it one stage in the order.

3. Changing the search result route

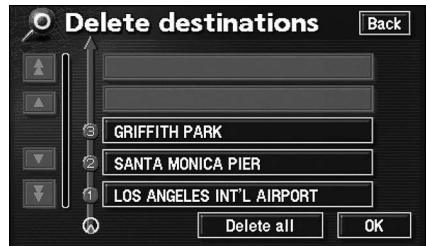
Deleting a destination

Multiple set destinations can be deleted. It is also possible to delete all destinations simultaneously.

- 1 Touch **Route** .
- 2 Touch **Delete** for Destination.
 - If only one destination is set, the screen in step 4 will appear.



- 3 Touch the destination name you want to cancel.
 - Touch **Delete all** to delete all the destinations.



- 4 Touch **Yes** .
 - Touch **No** to return to the original screen.
 - When all destinations are deleted and only one point is set, the present location screen appears.



ATTENTION When all destinations are deleted, route guidance cannot be restarted. Setting a new destination is necessary to activate route guidance.

5 Touch **OK** .

- A route search is initiated.



Indicating a preferred road

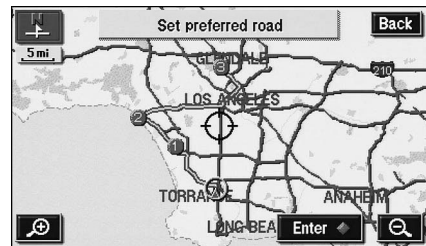
1 Touch **Route** .

2 Touch **Add** for Preferred road.



3 The map will move to the position of the indicated preferred road.


4 Touch **Enter** .



5 Touch **Next** .

- Select other road.
- Touch **OK** to select as a preferred road.

6 Touch **OK** .

- The  mark indicates a preferred road.
- If only one destination is set and no preferred road has been indicated, a route search starts.



3. Changing the search result route

7 If 2 or more destinations are set or if a preferred road is indicated, touch **Add** in the segment to be indicated.

- A route search is initiated.




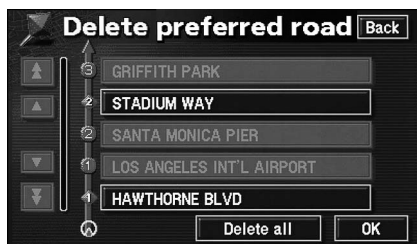
- **Delete** will only appear if a preferred road has already been indicated.
- If a map with a scale larger than 0.5 miles appears, switch to a map with a scale less than 0.5 miles.

Canceling the preferred road indication

- 1 Touch **Route** .
- 2 Touch **Delete** for Preferred road.
 - If only one destination is set, the screen in step **4** will appear.



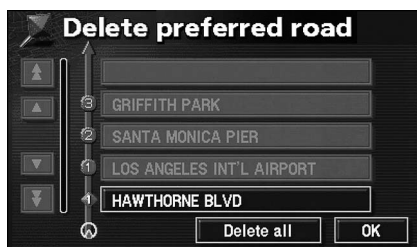
- 3 Touch the road name you want to cancel.
 - The  mark indicates preferred roads.
 - Touch **Delete all** to cancel all preferred roads.



- 4 Touch **Yes** .
 - Touch **No** to return to the original screen.
 - When only one area is set, a route search will begin.



- 5 Touch **OK** .
 - A route search is initiated.



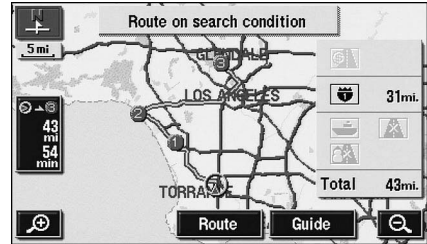
4. Starting, pausing and restarting route guidance

Starting route guidance

When the route search is complete, the all-route display screen appears. Touch **Guide** on the all-route display screen to start route guidance. Route guidance can be paused and restarted.

1 Touch **Guide** in the all-route display screen.

- Route guidance is started.
- If **NAVI** is pressed after the all-route map appears, or you do not operate the device for at least 3 seconds after you start driving, route guidance will automatically start.



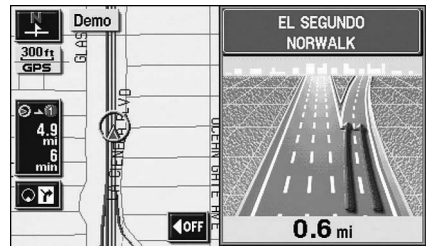
Demonstration

Once the route search is complete, you can watch a demonstration before starting route guidance.

1 Touch and hold **Guide** for at least 3 seconds.

2 Press **NAVI** (or **MENU / DEST**) while the demonstration is in progress.

- The demonstration stops.
- If you start driving while the demonstration is in progress, the demonstration will stop and route guidance will start.



● Demo in progress screen

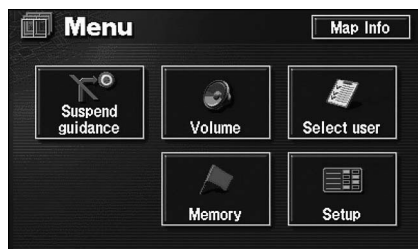


- The demonstration (demo) can be viewed in the all-route map screen, displayed after both destination settings and route search have been completed (before route guidance). However, the demonstration is not available while driving.
- To increase the speed of the demonstration, make the reduction scale greater. (Refer to the Section "**Switching the map reduction scale**" on page 32)
- To decrease the speed of the demonstration, make the reduction scale smaller. (Refer to the Section "**Switching the map reduction scale**" on page 32)

Pausing and restarting route guidance

1 Touch **Suspend guidance** in the Menu screen.

- Destinations will not be deleted even if route guidance is paused.
- To restart route guidance, touch **Resume guidance** in the Menu screen again.



5. Route guidance

When the route search is complete, guidance for the desired route can be started.

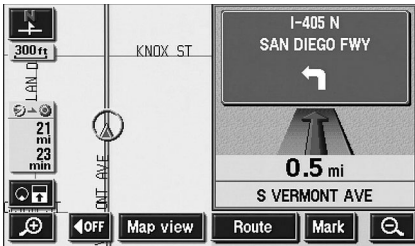
Drive towards your destination and the device will guide you along the route all the way.

Route guidance screen

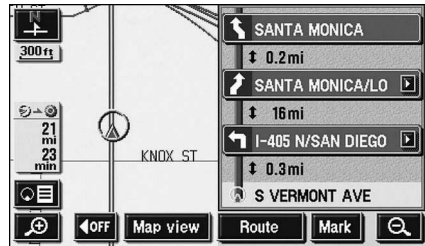
Apart from the single and split screen displays, it is also possible to display the Arrow, Turn list, and Compass screens while route guidance is in progress.

When approaching an intersection within approximately 0.3 miles on a local road indicated by an instruction point, the enlarged intersection display will automatically appear.

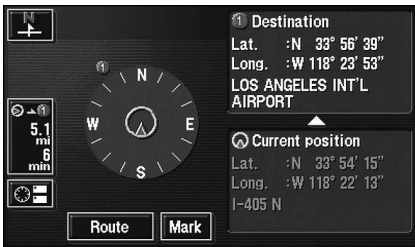
When driving on a freeway, the freeway junction guidance screen automatically appears when you come within approximately 1.3 miles of a junction.



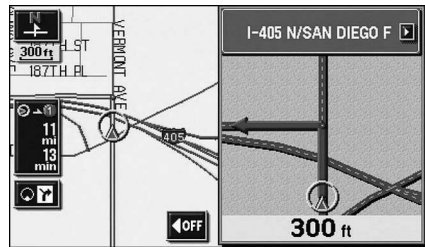
● Arrow screen



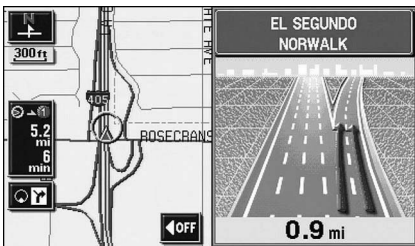
● Turn list screen



● Compass screen



● Enlarged intersection display screen



● Freeway junction guidance screen

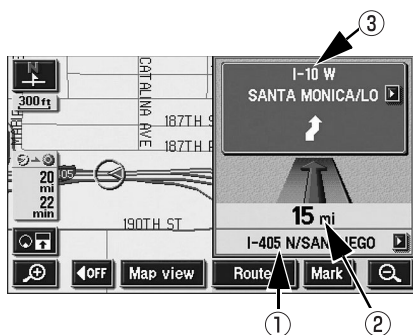
- Arrow screen (Below)
- Turn list screen (page 116)
- Compass screen (page 118)
- Enlarged intersection display screen (page 119)
- Freeway junction guidance screen (page 122)

The screens above are examples of those that appear during route guidance. Some screens may not be displayed depending on driving conditions.

Arrow screen

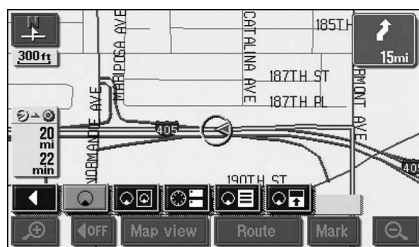
The names of roads taken as well as the direction and distance of junction intersections can be displayed.

- ① **Road name display**
Displays the names of roads taken.
- ② **Remaining distance display**
Indicates the distance up to the junction intersection.
- ③ **Direction display**
Displays the turns to be made at the junction intersection.




Displaying the Arrow screen

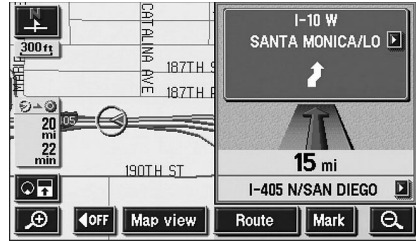
- 1 Touch .
- 2 Touch .
 - The Arrow screen appears.





5. Route guidance

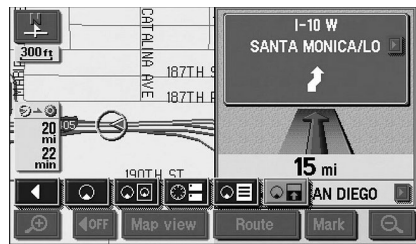
Canceling the Arrow screen

1 Touch .



2 Touch  to display the normal map.

- Touch  in this screen to restore the Arrow screen.



Turn list screen

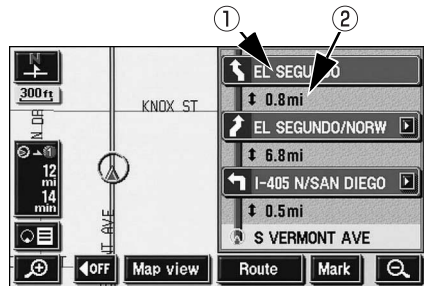
The names of intersecting roads and distances for the next 3 intersections can be displayed.

① **Road name display**


Names of the intersecting roads are displayed.


② **Remaining distance display**

Indicates the distance up to the junction intersection.

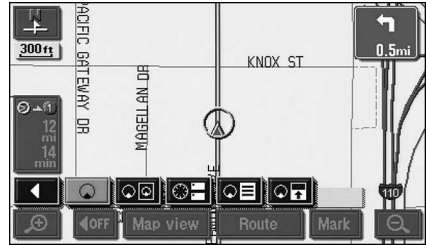


Displaying the Turn list screen


1 Touch .


2 Touch .


- The Turn list screen appears.

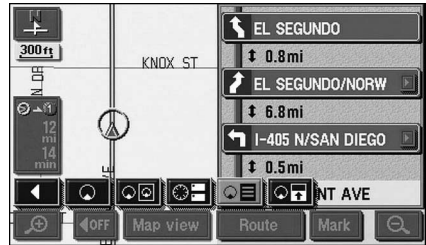
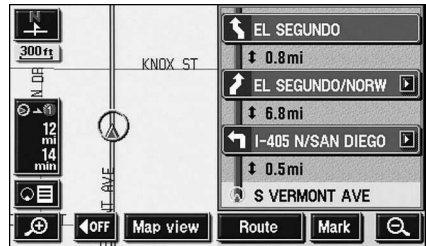


Canceling the Turn list screen

1 Touch .

2 Touch  to display the normal map.

- Touch  in this screen to restore the Turn list screen.

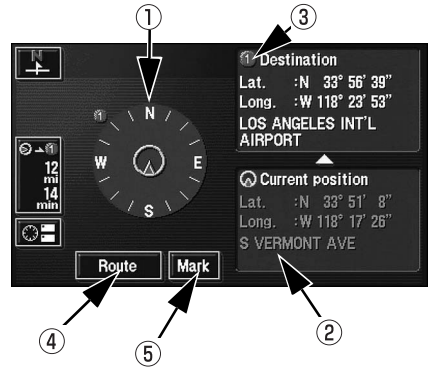


5. Route guidance

Compass screen

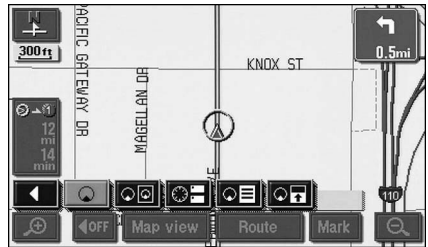
The current orientation of the vehicle, road name, and latitude/longitude of the present location and destination can be displayed.

- ① **Orientation display**
Displays the directional heading in which the vehicle is traveling.
- ② **Present location data display**
Displays the road name and latitude/longitude at the present location.
- ③ **Destination data display**
Displays the road names, latitude/longitude, and POI names at the destination.
- ④ **Route**
Displays a screen for changing the route.
- ⑤ **Mark**
Registers the current location as a memory point.



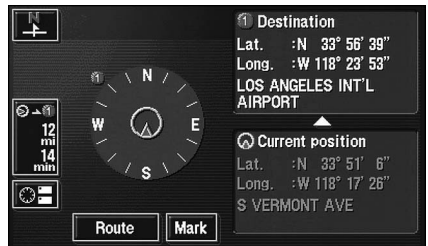
Displaying the Compass screen


- 1 Touch .
- 2 Touch .
● The Compass screen appears.




Canceling the Compass screen

- 1 Touch .



2 Touch  to display the normal map.

- Touch  in this screen to restore the Compass screen.



Enlarged intersection display screen

When approaching a junction intersection (within approximately 0.3 miles), the enlarged intersection display screen automatically appears.

① Road name display

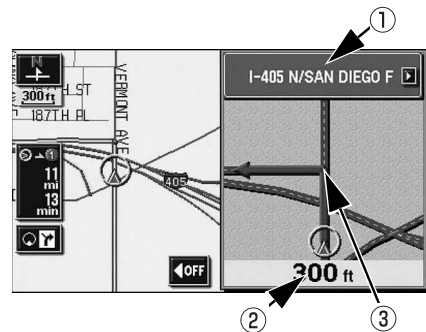
Displays the names of roads where a turn is made/not made.

② Remaining distance display

The distance up to the intersection is indicated.

③ Instruction points

Displays intersection guidance.



- Intersection guidance is not available when driving on minor roads.
- Road names will not be displayed for intersections for which no data exists in the map data.
- The road name displayed may differ from the names at the actual intersection.
- In the following situations, intersection guidance is not performed:
 - Immediately after route guidance is started
 - In the vicinity of the destination
- The intersection guidance may be early or late.
- If the next junction intersection is close, the enlarged intersection display will continue to be displayed.
- When an enlarged intersection display screen is shown, the road name will be displayed for the junction intersection. There is no intersection guidance prior to junction intersections.

5. Route guidance

Setting the enlarged intersection display screen

Select either to have the intersection guidance screen turned ON (display) or OFF (not display).

1 Touch **Setup** in the Menu screen.

2 Touch **On** or **Off** for Intersection guidance.

- The selected touch switch will turn green.

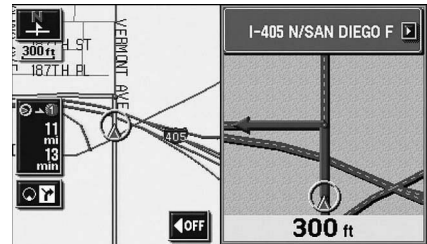
3 Touch **OK** .



Canceling the enlarged intersection display using **◀ OFF**


1 Touch **◀ OFF** .

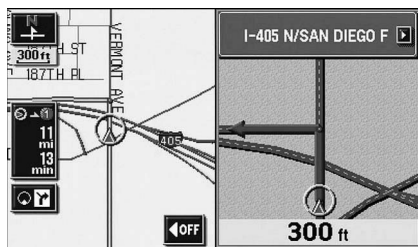
- Press **NAVI** in this screen to restore the enlarged intersection display screen.





Touch **Default** in the Setup screen to return all items to their default settings.

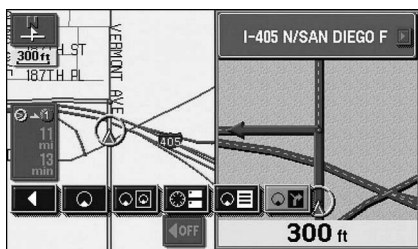
Canceling the enlarged intersection display using

1 Touch  .



2 Touch  to display the normal map.

- Touch  in this screen to restore the enlarged intersection display screen.



5. Route guidance

Freeway junction guidance screen

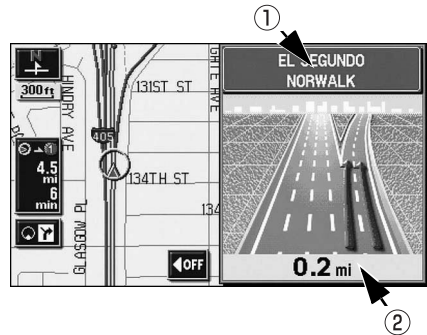
When approaching a freeway junction "interchange exit/junction" while route guidance is in progress, the freeway junction guidance screen is automatically displayed on the present location screen (when the present location is on the route).

1 Junction name display

The interchange exit/entrance name (IC) or the junction (JCT) direction name is displayed.

2 Remaining distance display

The distance to the junction intersection is indicated. The number decreases.



Setting the freeway junction guidance screen

You can set the freeway junction guidance screen to display (ON) or not display (OFF).

1 Touch **Setup** in the Menu screen.

2 Touch **On** or **Off** for Guidance screen on freeway.

- The selected touch switch will turn green.


3 Touch **OK**.

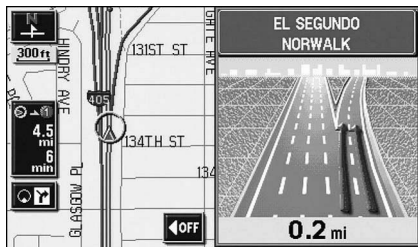


ATTENTION


- Freeway junction guidance will not be displayed for junctions for which no data exists in the map data. Also, the junction point name may not be displayed even if the freeway junction guidance screen is displayed.
- The junction point name displayed may differ from the actual junction name.
- In the following situations, freeway junction guidance is not performed:
 - Immediately after route guidance is started
 - In the vicinity of the destination
- The freeway junction guidance screen may be early or late.
- If the next junction intersection is close, the freeway junction guidance screen will continue to be displayed.
- Touch **Default** in the Setup screen to return all items to their default settings.

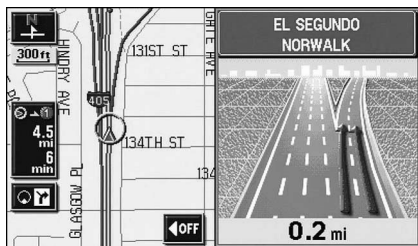
Canceling the freeway junction guidance screen using



- 1 Touch  .
 - Press **NAVI** to redisplay the freeway junction guidance screen.

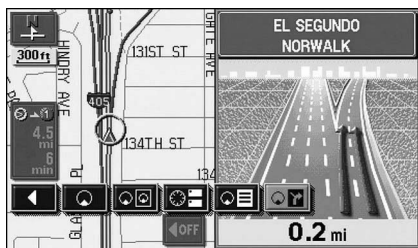


Canceling the freeway junction guidance screen using

- 1 Touch  .



- 2 Touch  to display the normal map.
 - Touch  in this screen to restore the freeway junction guidance screen.

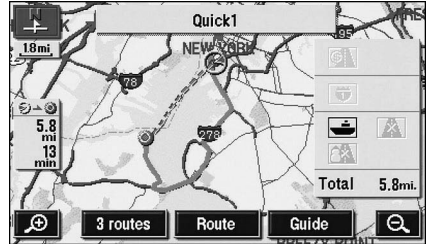


5. Route guidance

Ferry crossing guidance

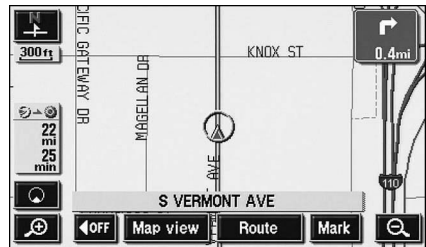
Ferry crossings are shown with a dotted line.

- Voice guidance occurs up to the ferry terminal.
- After having finished the ferry crossing, start driving and route guidance will resume in a moment.



Setting the estimated travel time

The required time is displayed in the left section of the map shown in the present location screen (when the present location is on the route) while route guidance is in progress.



- Required time display

Setting the average speed

The following times are calculated using the average speed of your vehicle.

- Required time on the present location screen (page 16)
- Required time on the all route display screen (page 93)
- Required times for the segments list (simultaneous 3-route display) (page 100)





The required time includes the ferry ride.

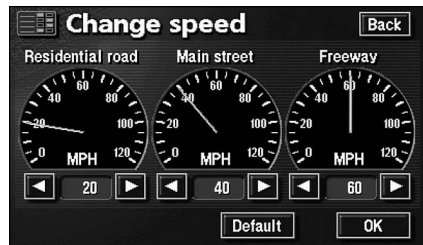
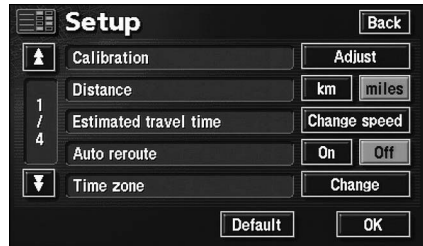
1 Touch **Setup** in the Menu screen.




2 Touch **Change speed** for Estimated travel time.

3 Set the speed for each road.

- Touch  to increase the speed, and touch  to decrease it. (Each touch raises or lowers the speed by 5 mph.)

4 Touch **OK** .



- The required time is calculated using the average speed of your vehicle. Therefore, there may be slight variations depending on driving conditions.
- When deviating from the set route, the  destination direction mark will appear.
- When you reach the maximum (Freeway 120 mph/Main street 100 mph/Residential road 80 mph) or minimum (5 mph) speed, the  and/or  switch will appear shaded and cannot be operated.
- Touch **Default** in the Setup screen to return all items to their default settings.
- Touch **Default** in the Change speed screen to return speed values to their default (Freeway 60 mph/Main street 40 mph/Residential road 20 mph) settings.

5. Route guidance

Voice guidance

If approaching an intersection, junction, passage point, interchange (ramp) exit/entrance, junction or destination while route guidance is in progress, voice guidance will announce the remaining distance to those points and up to 10 turning directions (straight, right, left, slight right, slight left, sharp right, sharp left, make a legal U-turn, keep right, keep left). Voice guidance is performed in PCM voice (human voice).

- 1 Press **NAVI** to receive a voice guidance update regarding the remaining distance to the junction intersection.

[Example of voice guidance while route guidance is in progress]

● Voice guidance at intersections

As you approach an intersection, the voice guidance will indicate the remaining distance as well as driving directions.

◆ Example of voice guidance:

- In XX mile (km), XX turn

● Freeway junction voice guidance

While driving on a freeway, junctions are shown as an enlarged display and the direction is announced vocally.

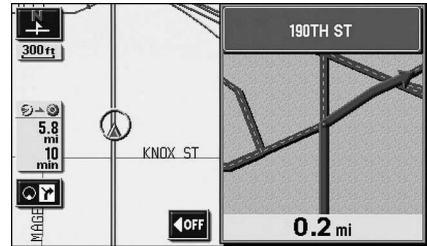
◆ Example of voice guidance:

- In XX mile (km), the exit XX

[Example of voice guidance in the vicinity of the destination]

◆ Example of voice guidance:

- You have arrived at your destination.
Your route guidance is now finished.



In quarter a mile, right turn.



ATTENTION

- Use the voice guidance only as a reference.
- Voice guidance is constantly updated along with the vehicle's progress. For example, if you press **NAVI** a few moments after hearing "In half mile, right turn." While driving, you will hear the updated guidance "In quarter a mile, right turn."
- Voice guidance starts when you set Auto voice guidance to **On**. (See page 127).
- The above are examples of the most common voice guidance announcements and may differ depending on the way the roads along your route are connected.

Setting automatic voice guidance

The automatic voice guidance function can be turned ON (output) or OFF (not output).

1 Touch **Setup** in the Menu screen.

2 Touch **On** or **Off** for Auto voice guidance.

- The selected touch switch will turn green.

3 Touch **OK** .



- If your vehicle position is not precisely specified, voice guidance may not occur or, in some cases, may be delayed or announce an erroneous instruction.
- The voice guidance volume may be adjusted. (See page 27).
Selecting **Off** will disable voice guidance.
- Touch **Default** in the Setup screen to return all items to their default settings.

5. Route guidance

Guidance in another mode

The route guidance continues (no vocal guidance output) even when switching to another mode (showing a screen other than the navigation screen). The voice guidance can also be made to output in other modes.

Setting the guidance when in other modes

1 Touch **Setup** in the Menu screen.

2 Touch **On** or **Off** for Voice guidance in all modes.

- The selected touch switch will turn green.

3 Touch **OK**.



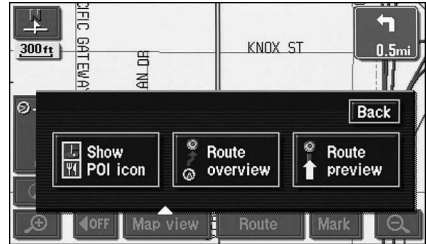
Touch **Default** in the Setup screen to return all items to their default settings.

6. Performing operations on the guided route

Redisplaying the all-route display

The all-route display from the start point to the destination can be shown.

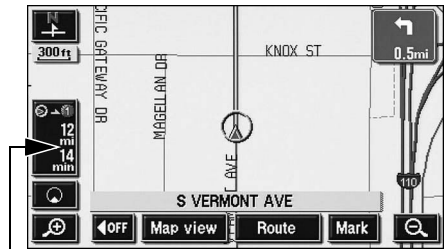
- 1 Touch **Map view** when a map is displayed on the screen.
- 2 Touch **Route overview**.
 - The all-route display screen appears.
 - Refer to the Section "All-route display and touch switches" on page 94 for details of the all-route display screen.
 - Touch **Back** to display the present location screen.



Switching the required time/remaining distance

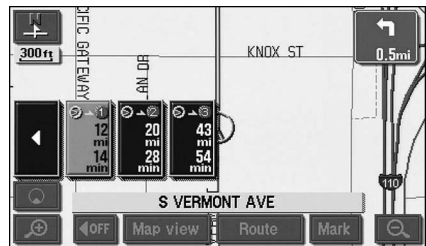
If 2 or more destinations are set on the present location screen (if the present location is along the set route), the required time/remaining distance can be switched while route guidance is in progress.

- 1 Touch the required time/remaining distance switch.
 - If two destinations are set, touch the required time/remaining distance switch to switch between them.
 - If 2 or more destinations are set, the required time/remaining distance for each destination appears.
 - Switching is impossible if you have deviated from the set route.



Required time/Remaining distance display

- 2 Touch the distance remaining display up to the preferred destination.



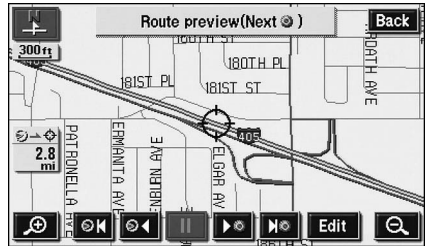
6. Performing operations on the guided route

On-route scroll

The map can be moved automatically along the set route to the destination, start point, or set POIs on the screen that shows the guided route.

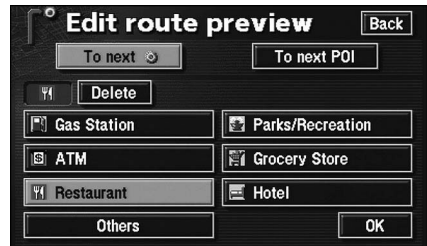
Starting on-route scroll

- 1 Touch **Map view** when a map is displayed on the screen.
- 2 Touch **Route preview** .
- 3 Touch the scroll touch switches (▶⚙️ / ▶◀️ / ▶⚙️ / ▶◀️).
 - The route to a destination or a POI on the route can be set by touching **Edit** .






Setting POIs for on-route scroll

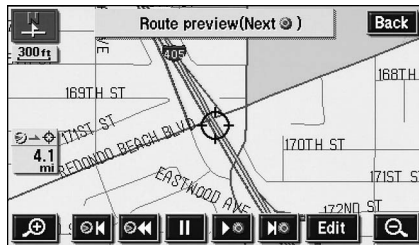
- 1 Touch **Edit** in the on-route scroll screen.
- 2 Touch the POI you want to display in the on-route scroll display.
 - Only one POI can be set.
 - A POI not currently set as a touch switch can be selected by touching **Others** .
 - If you make a mistake, touch **Delete** .







- 3 Touch **To next** ⚙️ or **To next POI** .
- 4 Touch **OK** .

On-route scroll screen operations









- Touch  to pause map scrolling.
- Press **NAVI** to stop the on-route scroll.
- Touch  or  to move the map quickly.



ATTENTION

- If there is no route displayed on the map, on-route scroll is impossible.
- The split-screen display is cancelled during on-route scrolling. You can resume the display by pressing the **NAVI** button.
- If scrolling up to the next destination:
 - Use the  switch to move the map up to the next destination.
 - Use the  switch to move the map back to the departure point (previous destination).
 - Use the  switch to display the next destination map.
 - Use the  switch to display the departure point map (previous destination).
- If scrolling to the next POI

Only selected POIs can be touched.

 -  ... The map moves along the set route to the next landmark in the destination direction.
 -  ... The map returns along the set route to the previous landmark in the direction of the start point.
 -  ... A map is displayed for the next POI landmark on the set route in the destination direction.
 -  ... A map is displayed for the previous POI landmark on the set route in the direction of the start point.
- On-route scroll cannot be used to scroll up to the next POI if the scale of the displayed map is greater than those shown below.
 -  and  ...0.5 mile scale
 -  and  ...0.5 mile scale
- POIs set for on-route scroll differ to those set as local POIs.
- After moving to a POI landmark, it is possible to display information for that POI (See page 65).
- The on-route scroll may stop depending on the map displayed.

7. Reinitiating a route search

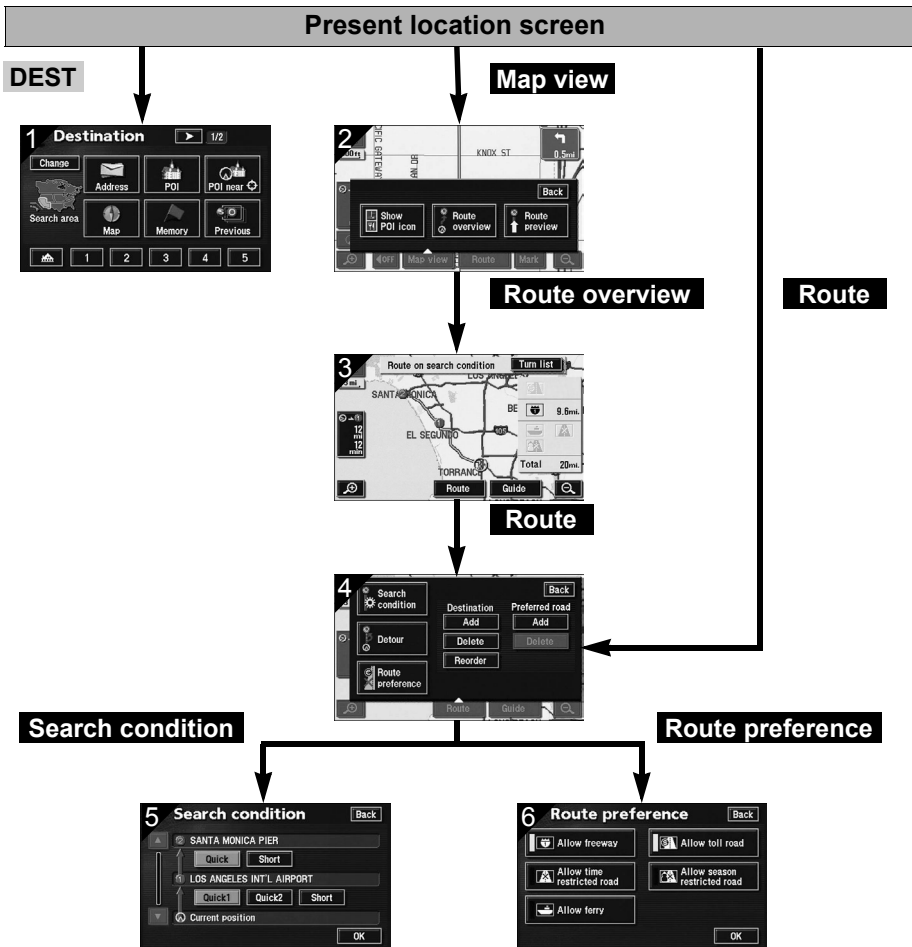
Reinitiating a route search

While route guidance is in progress, additional destinations can be set, search conditions can be changed, and a route search can be reinitiated.

To change the route, use either "Change method using **Route**" or "Change method using **DEST**".

A route search can be reinitiated from the following screens.

- See the next page for information concerning the touch switches that appear on each screen.



| Screen No. | Touch switches | Functions | Page |
|------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1 | How to retrieve maps | Retrieves the desired map. Sets/adds a destination. | 48 |
| 2 | Route overview | Shows the all-route display. | 93 |
| 3 | Route | Displays the route modification screen. | 101 |
| 4 | Add / Delete Reorder a destination/transit destination | Adds, switches the order, or deletes destinations. | 102 106 108 |
| | Add / Delete a transit point (when preferred road indicated) | Indicates, corrects or cancels preferred roads. | 109 111 |
| | Search condition | Displays the search condition setting screen. | 105 |
| | Detour | Searches for a route which bypasses the guided route ahead. | 135 |
| | Route preference | Displays the route preference setting screen. | 105 |
| 5 | Search conditions | Sets the search conditions for each segment. | 105 |
| 6 | Route preference | Sets whether or not to allow freeways, toll roads, all restricted segments, or ferry crossings when searching for a route. | 96 |

| Search conditions | Function |
|-------------------|-------------------------------------------------------------------------------------------|
| Quick 1 | Searches for a general route from the present location to the next destination*. |
| Quick 2 | Searches for an alternate route from the current location to the next destination* point. |
| Short | Searches for the shortest route from the present location to the next destination*. |

* If a preferred road is indicated between the present location and the destination, a route search is initiated for the segment between the present location and the indicated preferred road.

7. Reinitiating a route search

Auto reroute search

If you have deviated from the route, a route search may be initiated automatically (vicinity search or all-route search).

The search result route may differ according the conditions under which the set route was deviated from.

- Vicinity search: A route search returning you to the original route is initiated.
- All-route search: A route from the present location to the next destination* is searched for in accordance with the specified conditions.

* If a preferred road is indicated between the present location and the destination, a route search is initiated for the segment between the present location and the indicated preferred road.

Setting the automatic reroute search

The automatic reroute search function can be turned ON (enable) or OFF (disable).

1 Touch **Setup** in the Menu screen.

2 Touch **On** or **Off** for Auto reroute.

- The selected touch switch will turn green.

3 Touch **OK** .



ATTENTION

- If you have deviated from the set route while route guidance is in progress, the automatic reroute search is activated once the device determines that you are driving on a guidable road.
- Touch **Default** in the Setup screen to return all items to their default settings.

Adding a detour

You can reinitiate a search for a route that takes a detour from a guided road ahead. You can also designate detours that avoid certain road conditions.

1 Touch **Route** when a map is displayed on the screen.

2 Touch **Detour** .



3 Touch **1 mile** , **3 miles** , **5 miles** , or **Whole route** .

- A search is initiated for a route which detours the selected distance.
- Touch **Whole route** to search for a route which detours the entire selected route.



1. What is point registration?

It is possible to register points such as your home, memory points, and quick access points as memory points (up to 106) to be remembered on maps. (1 home and 5 quick access points are included) It is also possible to register detour points (up to 10) so that when performing a route search the search produces a route which avoids such points.

It is possible to register points as memory points, selecting from 46 icons and 4 types of voice alarms. A name and telephone number for each point can also be set. It is possible to retrieve these registered memory points when displaying a map or performing a route search (excluding detour points).

Points registered by mistake can be corrected or deleted.

(If there are already 106 memory points and 10 detour memory points registered, delete unnecessary points before registering new ones.)

Memory points

Memory points (including home and quick access points) can be reordered and displayed by registered type, icon, or order in which they were registered, and selected from a list in a point search.

Memory points with voice alarm

Memory points with voice alarms can be allocated the following functions:

① **Setting that announces, with either sound or speech, an approaching point**

Bell, Chime, Music Box

② **Setting that is restricted by direction announces an approaching a memory point**

Bell (with direction)

Home

One point can be registered as your home and a single operation used to search for a return route to your home. **It is recommended that this is the first point you register.**

Quick access points

Up to 5 quick access points can be registered and allocated to touch switches to facilitate a search for geographical points. It is also possible to use a single operation to perform a route search when setting a destination.

Area to avoid

Up to 10 detour memory points can be registered with separate names and detour ranges.



Icons cannot be changed for detour memory points.

2. Registering, correcting or deleting a memory point

Registering/correcting/deleting your home

One point on the map can be registered as your home.

Register your home to enable a route search to your home with a single switch in the destination setting screen. (See page 91)

Registering your home


1 Touch **Memory** in the Menu screen.

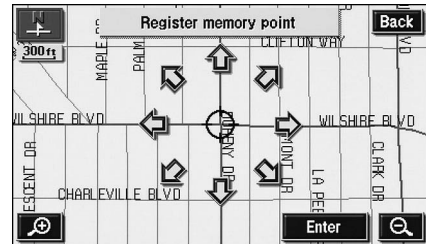
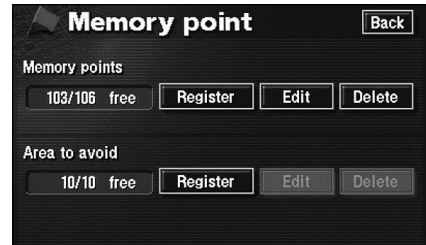
2 Touch **Register** for Memory points.

3 Select the map retrieval method and the map on which your home is to be registered will appear.

- See pages 48 and 85, "Map retrieval methods" and "Performing operations on a retrieved map".

4 Touch **Enter**.

- The map can be moved by touching .



- You can register points using detailed maps with a scale of 0.5 miles or less.
- **Edit** and **Delete** can only be used if a memory point is already registered.

2. Registering, correcting or deleting a memory point

5 Touch **Attribute** .

Memory point Back

Icon ☰ **Attribute** Change to home or quick access point

Name

Show name On Off

Location
Lat. : N34° 4' 1" Long. : W118°23' 23"

Phone no.

OK

6 Touch **Not registered** .

Change attribute Back

Not registered

1 UNION STATION

2 Not registered

3 Not registered

4 Not registered

5 Not registered

7 Touch the switch for the item you want to enter or correct.

- See the following for more information on entering and correcting data:
 - Icon (page 148)
 - Name entry (page 151)
 - Name display on the map (page 152)
 - Position (page 147)
 - Telephone number (page 150)

Memory point Back

Icon ☰ **Attribute** **Home** Del.

Name

Show name On Off

Location
Lat. : N34° 4' 1" Long. : W118°23' 23"

Phone no.

OK

8 Touch **OK** .

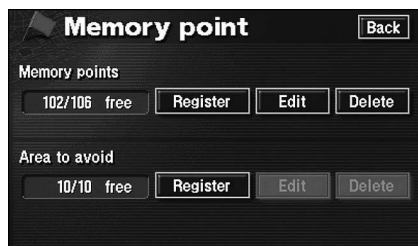


- If your home is already registered, touch it to display the home cancellation screen.
- The icon you register will appear on the map retrieval screen in place of the switch.

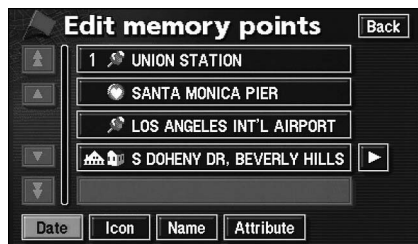
Correcting your home

Correcting from Menu screen

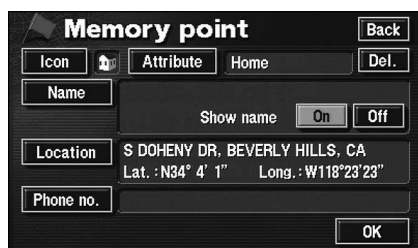
- 1 Touch **Memory** in the Menu screen.
- 2 Touch **Edit** for Memory points.



- 3 Touch .



- 4 Touch the switch for the item you want to enter or correct.
 - Touch **Del.** to display the delete home screen.
 - Touch **Yes** to delete the memory point.
 - Touch **No** to return to the original screen.
 - See the following for more information on entering and correcting data:
 - Icon (page 148)
 - Name entry (page 151)
 - Name display on the map (page 152)
 - Position (page 147)
 - Telephone number (page 150)



- 5 Touch **OK**.

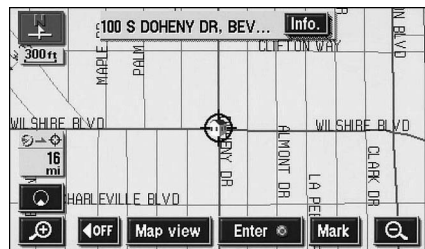
2. Registering, correcting or deleting a memory point

Correcting from the map display

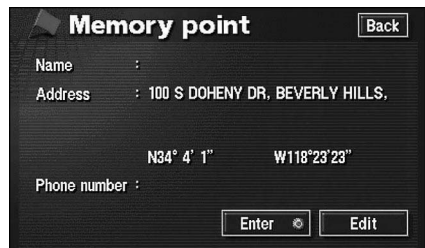
- 1 Touch the icon indicating your home on the map.



- 2 Touch **Info.**

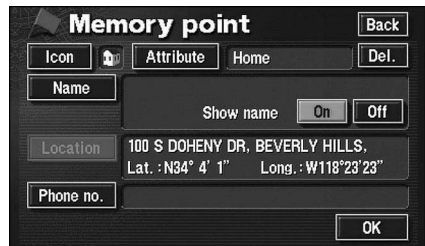


- 3 Touch **Edit**



- 4 Touch the switch for the item you want to enter or correct.

- Touch **Del.** to display the delete home screen.
- Touch **Yes** to delete the memory point.
- Touch **No** to return to the original screen.




- See the following for more information on entering and correcting data:
 - Icon (page 148)
 - Name entry (page 151)
 - Name display on the map (page 152)
 - Position (page 147)
 - Telephone number (page 150)

5 Touch **OK** .

Deleting your home

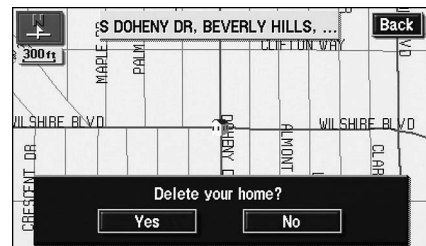
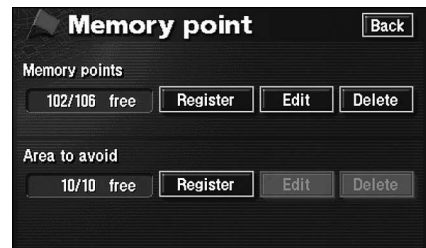
1 Touch **Memory** in the Menu screen.

2 Touch **Delete** for Memory points.

3 Touch  .

4 Touch **Yes** .

- Touch **No** to return to the original screen.



2. Registering, correcting or deleting a memory point

Registering memory points

Up to 106 memory points (landmarks) can be registered on a map (including 1 home and 5 quick access points). If registering more than 106 points, first delete unnecessary memory points and proceed.

Registering memory points enables the following:

- The icon and point name are displayed on the map.
- An alarm that announces an approaching a point.
- Maps corresponding to memory points can be retrieved when setting a destination (See page 79).




One-touch registration

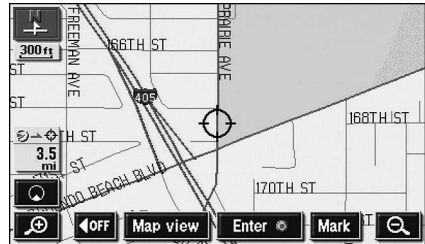
Memory points can be registered on the map currently displayed.

1 Touch the position on the map where the memory point is that you want to register.

- It is not necessary to scroll the map when registering the present location.


2 Touch **Mark**.

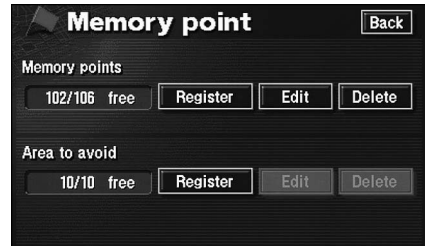
- The memory point  is displayed at the  or  position.



- You can register points using detailed maps with a scale of 0.5 miles or less (excluding for one-touch registration).
- Depending on the location, the address displayed for the memory point may include a name of a neighboring area.
- A registered memory point may display a neighboring name or address.

Registering a far away point

- 1 Touch **Memory** in the Menu screen.
- 2 Touch **Register** for Memory points.
- 3 Select a map retrieval method to display the map on which the memory point is to be registered.
 - See pages 48 and 85, "Map retrieval methods" and "Performing operations on a retrieved map".
- 4 Touch **Enter**.
 - The map can be moved by touching .
 - The registering memory points screen appears.



ATTENTION

- When a memory point is not registered, **Edit** and **Delete** are shaded and cannot be operated.
- Depending on the location of the registered point and the map retrieval method, the name and telephone number may be entered simultaneously.

2. Registering, correcting or deleting a memory point

- 5 Touch the switch for the item you want to enter or correct.
- See the following for more information on entering and correcting data:
 - Icon (page 148)
 - Name entry (page 151)
 - Name display on the map (page 152)
 - Position (page 147)
 - Telephone number (page 150)
 - It is possible to change to home or quick access points by touching **Attribute**. (See "Registering your home" on page 137, "Registering quick access points" on page 154)



- 6 Touch **OK**.

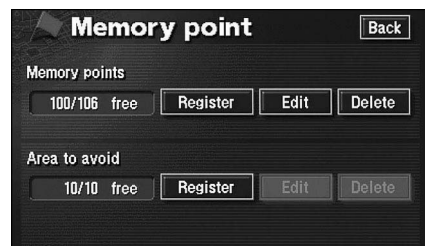
Correcting memory points

You can change and enter information such as icons and names of stored memory points from the memory point editing screen.

Displaying the memory point editing screen

Displaying the memory point editing screen from Menu screen

- 1 Touch **Memory** in the Menu screen.
- 2 Touch **Edit** for Memory points.

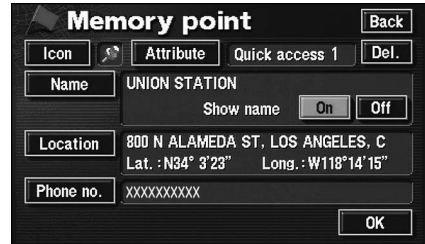


3 Touch the memory point you want to correct.



4 Touch the switch for the item you want to enter or correct.

- See the following for more information on entering and correcting data:
 - Icon (page 148)
 - Name entry (page 151)
 - Name display on the map (page 152)
 - Position (page 147)
 - Telephone number (page 150)

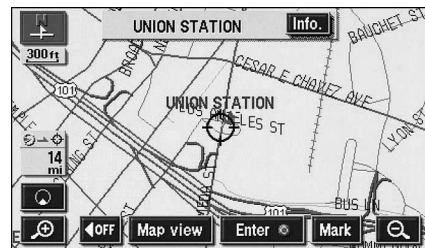



Point registration

Displaying the memory point editing screen from the map display

1 Touch the memory point you want to edit on the map.

2 Touch **Info.**

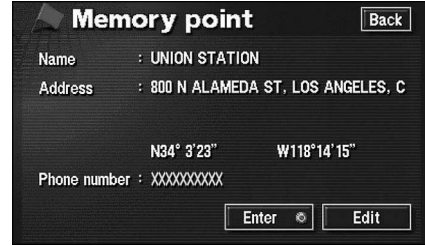


 The items in the memory point list can be sorted by Date, Icon, Name or Attribute.

2. Registering, correcting or deleting a memory point

3 Touch **Edit** .

- Touch **Enter**  to set the memory point as a destination.




Memory point Back

Name : UNION STATION

Address : 800 N ALAMEDA ST, LOS ANGELES, C

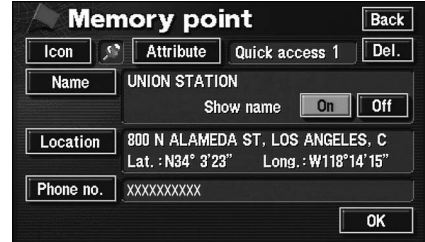
N34° 3' 23" W118° 14' 15"

Phone number : XXXXXXXXXXXX


Enter  Edit

4 Touch the switch for the item you want to enter or correct.

- See the following for more information on entering and correcting data:
 - Icon (page 148)
 - Name entry (page 151)
 - Name display on the map (page 152)
 - Position (page 147)
 - Telephone number (page 150)



Memory point Back

Icon  Attribute Quick access 1 Del.

Name UNION STATION

Show name On Off

Location 800 N ALAMEDA ST, LOS ANGELES, C

Lat. : N34° 3' 23" Long. : W118° 14' 15"

Phone no. XXXXXXXXXXXX

OK

Correcting memory point location

1 Touch **Location** in the memory point editing screen.

- A map will appear.

Memory point Back

Icon Attribute Quick access 1 Del.

Name UNION STATION Show name On Off

Location 800 N ALAMEDA ST, LOS ANGELES, C
Lat.: N34° 3'23" Long.: W118°14'15"


Phone no. XXXXXXXXXXXX

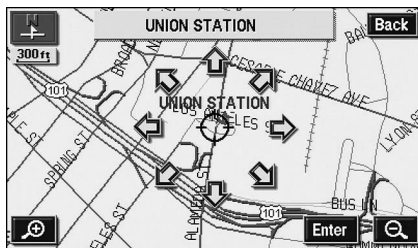
OK

2 Touch .

- Move the memory point to the correct position on the map.

3 Touch **Enter**.

- The icon displayed in **1** appears in the  position.
- Correct the position and the location displayed in **1** is also corrected.



4 Touch **OK**.

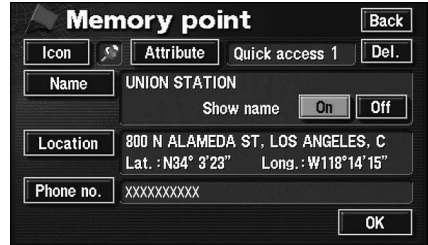


You can register points using detailed maps with a scale of 0.5 miles or less.

2. Registering, correcting or deleting a memory point

Changing a memory point icon

1 Touch **Icon** in the memory point editing screen.



2 Touch the icon you want to change.

- Touch **Page 1** / **Page 2** / **With sound** and change the icon type.



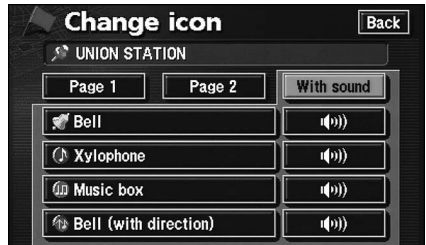
●Page 1

- It is possible to not display a registered memory point on the map by touching **No icon**.



●Page 2

- If an icon with a voice alarm is selected, an alarm will sound when about 0.3 miles from the memory point.





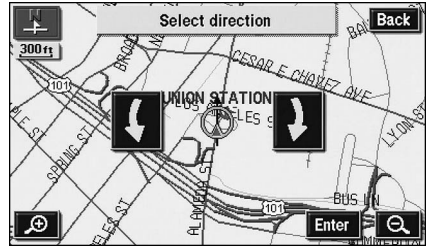
●With sound




- A confirmation sound will be heard after selecting **With sound**.
- Each of the sounds can be heard by touching **[Speaker icon]**.

3 After touching **Bell (with direction)** set the direction.

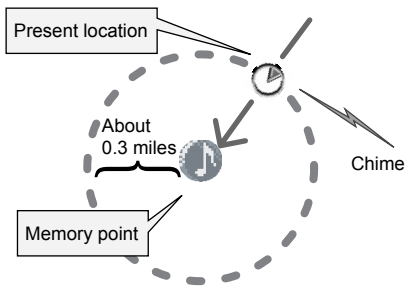
- Touch  to turn the direction counterclockwise and  to turn it clockwise.



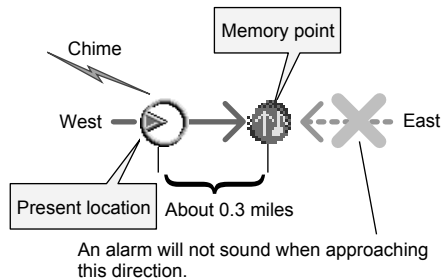
4 Touch **Enter**.

- The memory point will be displayed with .

<With sound>



<With direction>



<When setting with direction>

- Touch **Bell (with direction)** to set an alarm to sound when within about 0.3 miles of a memory point and approaching from the set direction.

For example, when driving on a road running east-west, you can set an alarm to sound when approaching a memory point from the west and not sound when approaching it from the east.

2. Registering, correcting or deleting a memory point

Entering a telephone number for a memory point

- 1 Touch **Phone no.** in the memory point editing screen.


Memory point Back

Icon Attribute Change to home or quick access point

Name SANTA MONICA PIER Show name On Off

Location 699 SANTA MONICA PIER, SANTA MO...
Lat.: N34° 0' 37" Long.: W118°29' 46"

Phone no. OK

- 2 Enter the number by touching the switches on the screen.
 - Touch  to delete numbers entered by mistake (or phone numbers already entered).

- 3 Touch **OK** .

- 4 Touch **OK** .

Change phone number Back

0123 _ ◀

1 2 ABC 3 DEF

4 GHI 5 JKL 6 MNO

+ 7 PQRS 8 TUV 9 WXYZ

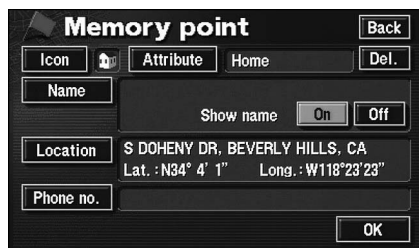
- * 0 # OK



- Up to 20 digits can be entered.
- Depending on the registered point, there may be a telephone number already entered for it.

Entering a memory point name

- 1 Touch **Name** in the memory point editing screen.



- 2 Enter one letter at a time by touching the switches on the screen.

- Touch to delete characters entered by mistake (or characters already entered).
- Touch **À-ÿ** to switch to the accent mark screen.
- Touch **0-9** to switch to the Enter number screen.



- 3 Touch **OK** .

- 4 Touch **OK** .

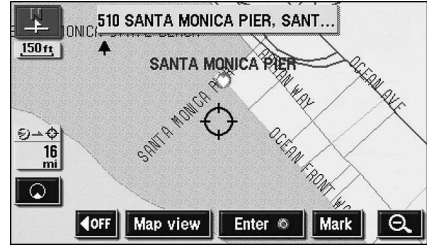


Depending on the registered point, there may be a name already entered for it.

2. Registering, correcting or deleting a memory point

Displaying a memory point name

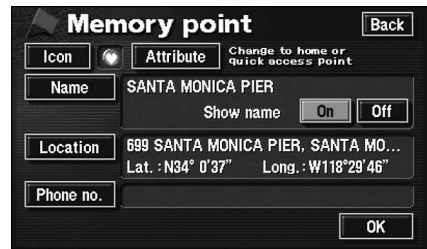
The name of a stored memory point can be displayed.



1 Touch **On** or **Off** for Show name in the memory point editing screen.

- The selected touch switch will turn green.

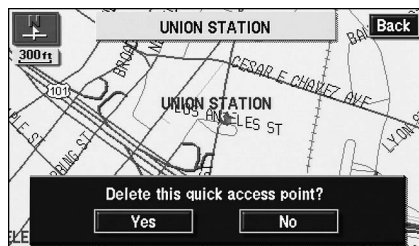
2 Touch **OK** .



You can register points using detailed maps with a scale of 0.5 miles or less.

Deleting a memory point

- 1 Touch **Memory** in the Menu screen.
- 2 Touch **Delete** for Memory points.
- 3 Touch the memory point you want to delete.
 - Touch **Delete all** to delete all memory points.
- 4 Touch **Yes** .
 - Touch **No** to return to the original screen.





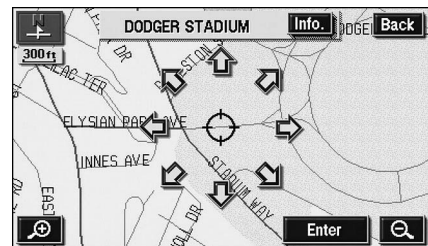
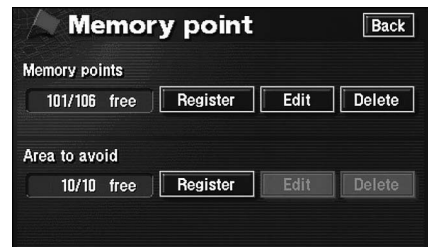
3. Registering, correcting or deleting a quick access point

Up to 5 quick access points can be registered.

Quick access points are different from other memory points in that, when registered, they can be retrieved with a single touch from the retrieved map screen. Also, when setting a destination, a route search can be initiated with a single touch from the destination setting screen. (See page 91)

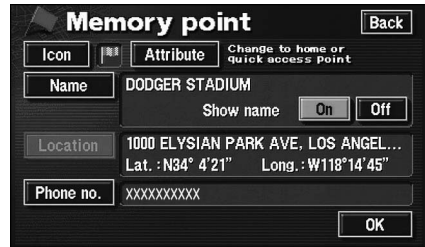
Registering quick access points

- 1 Touch **Memory** in the Menu screen.
- 2 Touch **Register** for Memory points.
- 3 Select a map retrieval method and the map corresponding to the quick access point to be registered appears.
 - See pages 48 and 85, "Map retrieval methods" and "Performing operations on a retrieved map".
- 4 Touch **Enter** .
 - If displayed,  can be used to move the map.
 - The memory point will appear at the  position.

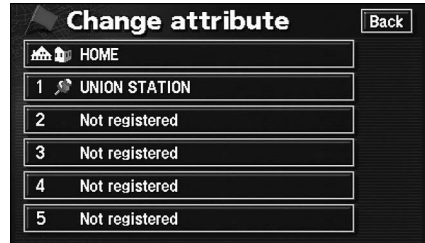


- You can register points using detailed maps with a scale of 0.5 miles or less.
- **Edit** and **Delete** will only appear if a memory point is already registered.

5 Touch **Attribute** .



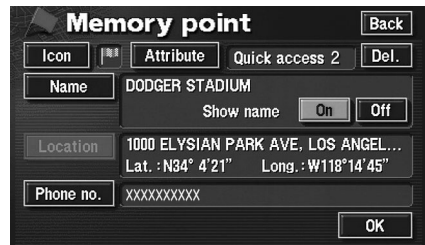
6 Touch **Not registered** 1 to 5.



7 Touch the switch for the item you want to enter or correct.

- See the following for more information on entering and correcting data:
 - Icon (page 148)
 - Name entry (page 151)
 - Name display on the map (page 152)
 - Position (page 147)
 - Telephone number (page 150)

8 Touch **OK** .

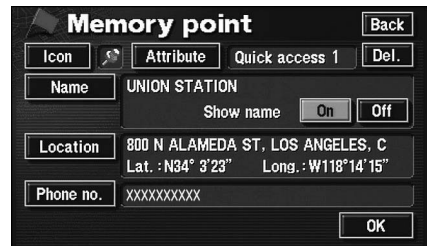


- The address for the quick access point may appear with a neighboring area name depending on the location of the point.
- A neighboring name or address will be displayed for the registered quick access point.
- Depending on the location of the registered point and the map retrieval method, the name and telephone number may be entered simultaneously.
- Select an already registered telephone number and touch it to display a deletion screen for the quick access point corresponding to that telephone number.

3. Registering, correcting or deleting a quick access point

Correcting a quick access point

- 1 Touch **Memory** in the Menu screen.
- 2 Touch **Edit** for Memory points.
- 3 Touch the quick access point you want to edit or enter information for.
- 4 Touch the switch for the item you want to enter or correct.
 - Touch **Del.** to display the delete quick access point screen
 - Touch **Yes** to delete the memory point.
 - Touch **No** to return to the original screen.
 - See the following for more information on entering and correcting data:
 - Icon (page 148)
 - Name entry (page 151)
 - Name display on the map (page 152)
 - Position (page 147)
 - Telephone number (page 150)
- 5 Touch **OK** .

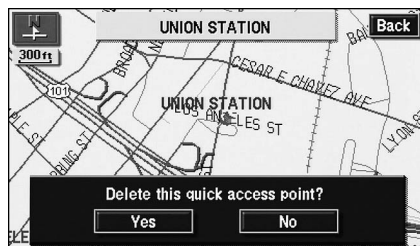


ATTENTION

- The items in the memory point list can be sorted by Date, Icon, Name or Attribute.
- You can correct quick access point information by touching the registered icon on the map screen. "**Correcting from the map display**" on page 140 for details.
- The edited icon will be displayed as a quick access point switch (**1** to **5**) on the map retrieval screen.

Deleting a quick access point

- 1 Touch **Memory** in the Menu screen.
- 2 Touch **Delete** for Memory points.
 - 3 Touch the quick access point you want to delete.
 - Touch **Delete all** to delete all quick access points.
 - 4 Touch **Yes** .
 - Touch **No** to return to the original screen.



4. Registering, correcting or deleting detour memory points

Registering detour memory points

Up to 10 detour memory points can be registered. If registering more than 10 points, first delete unnecessary detour memory points and proceed.

By registering detour memory points, you can search for a route that takes you through the registered area when conducting a route search.

This function is convenient when you know what roads are congested or blocked due to construction or accidents.

- 1 Touch **Memory** in the Menu screen.
- 2 Touch **Register** for Area to avoid.




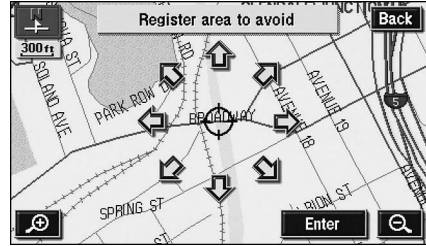
- 3 Select the map retrieval method to display the map on which a detour memory point is to be registered.
 - See pages 48 and 85, "**Map retrieval methods**" and "**Performing operations on a retrieved map**".







- **Edit** and **Delete** only appear when a detour memory point is already registered.
- The route may take you through a detour depending on the position of the set destination or the present location.

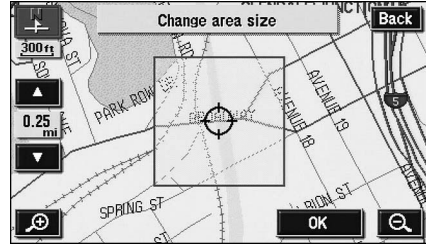
4 Touch **Enter** .

- The map can be moved by touching .






5 Touch or to set the area to be detoured.

- Touch  to widen and  to narrow the area.
- When reaching the maximum or minimum permissible area, the  or  switches invert and are inoperable even if touched.
- The numerical value in the center is the length of one side of the selected area.



6 Touch **OK** .

- The detour memory point will appear at the  position with an  mark (smallest point) or a  mark (area).

7 Touch **OK** .

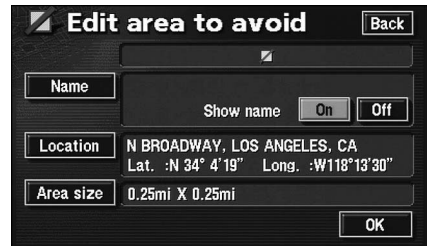
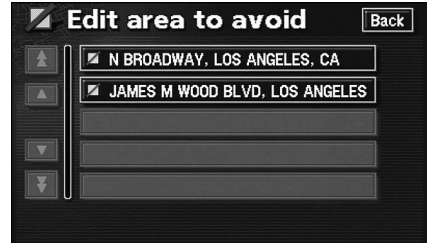


- There are ten area sizes (side lengths) that can be selected: point, 150 ft, 300 ft, 700 ft, 0.25 mile, 0.5 mile, 1 mile, 2 miles, 4 miles, and 8 miles.
- A neighboring name or address will appear for the registered detour memory point.
- The address appearing for the detour memory point may differ depending on the location or the registration method.
- The name can be entered simultaneously depending on the location of the registration and the map retrieval method.

4. Registering, correcting or deleting detour memory points

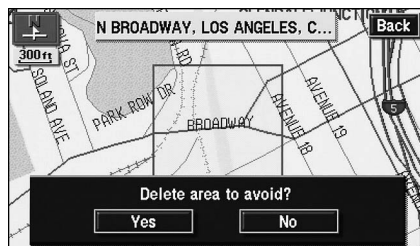
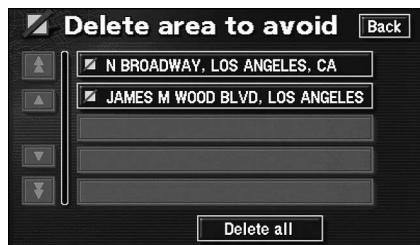
Correcting a detour memory point

- 1 Touch **Memory** in the Menu screen.
- 2 Touch **Edit** for Area to avoid.
- 3 Touch the area to avoid that you want to edit.
- 4 Touch the switch for the items you want to enter or correct.
 - See the following for more information on entering and correcting data:
 - Name entry (page 151)
 - Position (page 147)
 - Touch **Area size** to change the detour area. (page 159)
- 5 Touch **OK** .



Deleting a detour memory point

- 1 Touch **Memory** in the Menu screen.
- 2 Touch **Delete** for Area to avoid.
- 3 Touch the area to avoid that you want to delete.
 - Touch **Delete all** to delete all detour memory points.
- 4 Touch **Yes** .
 - Touch **No** to return to the original screen.



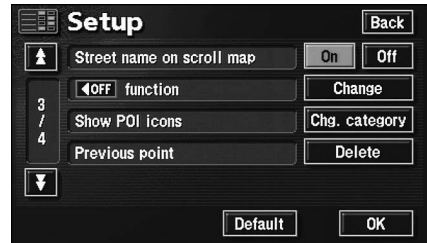
5. Destination archive

Deleting destination archives

Points on a map set as destinations are automatically recorded and can serve to retrieve a map when setting a destination (maximum 100 destinations). If you exceed 100 destinations, the oldest entry will be automatically deleted with every new entry. Unnecessary destinations can also be deleted.

1 Touch **Setup** in the Menu screen.

2 Touch **Delete** for Previous point.



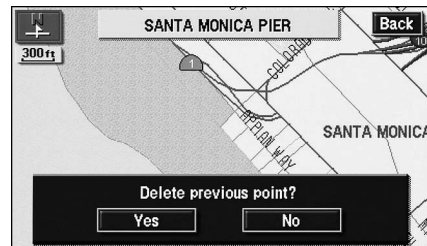
3 Touch the point name you want to delete.

- Touch **Delete all** to delete all destination archives.



4 Touch **Yes**.

- Touch **No** to return to the original screen.



- Touch **Default** in the Setup screen to return all items to their default settings.
- The destination archive items can be ordered by Date or Name.

1. Information screen

The information functions are "ESN", "SETTING", "DATA", and "SYSTEM CHECK".

Information screen

- 1 Press **INFO** to display the information screen.
- 2 Touch any touch switch.
 - Select an item.
 - The following functions are possible from the information screen.

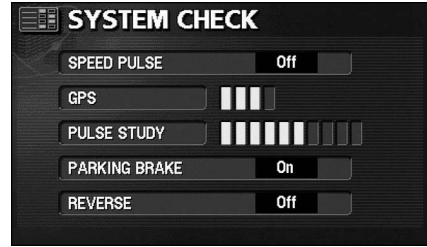


| Display order/item (touch switch) | | Function | Page |
|-----------------------------------|--------------|----------------------------------------------------|--------------------------------|
| 1 | ESN | Setting ESN (ECLIPSE Security Network) | Owner's manual Reference Guide |
| 2 | SETTING | Settings for the background, beep, etc. | Owner's manual/Audio |
| 3 | DATA | Update/information for title database (Music Juke) | Owner's manual/Audio |
| 4 | SYSTEM CHECK | System check display | 164 |

2. System check screen

1 Touch **SYSTEM CHECK** in the information screen.

- The System check screen appears.



| Item (touch switch) | Function |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SPEED PULSE | The speed pulse signal status is displayed. On: A speed pulse signal exists. Off: There is no speed pulse signal. |
| GPS | GPS reception conditions are displayed. 4 indicators lit: Receiving signals from 4 or more satellites. 3 indicators lit: Receiving signals from 3 satellites. No lit indicators: Measurement not possible. |
| PULSE STUDY | The progress of the distance compensation learning function is displayed using 10 levels. |
| PARKING BRAKE | The status of the parking brake is displayed. On: Parking brake applied. Off: Parking brake released. |
| REVERSE | The status of the reverse gear is displayed. On: The vehicle is in reverse gear. Off: The vehicle is not in reverse gear. |

1. Rear view Camera operations

When the optional Rear view Camera is installed, the rear view image can be displayed on the monitor screen.



- Do not rely too heavily on the Rear view Camera.
- Please use the Rear view Camera as a backup means to check for obstructions behind the vehicle.
- Raindrops or other natural phenomena may blur the camera's image.
- Do not backup your vehicle looking only at the monitor. Use the rear view mirror and both side mirrors to check for any obstructions behind or around your vehicle.
- Do not use the Rear view Camera in the following situations:
 - On frozen, slippery or snowbound roads
 - With the trunk opened
 - When using tire chains or a spare tire
 - On a slope or any uneven road
- When the external air temperature is low, the image may darken or become faint. Images of moving objects in particular may be distorted, or they may not be visible on the screen, so the driver must directly confirm safety around the vehicle visually.

1. Rear view Camera operations



- The actual position and distance of people or objects may vary depending on the features of the camera lens.
- Do not expose the camera to strong shocks such as hitting it or knocking it into other objects. The Rear view Camera may not function properly if the position of the camera or its mounting angle is incorrect.
- The camera is waterproof. Do not uninstall, dismantle or reconfigure the unit. Otherwise, the Rear view Camera may not function properly.
- If the camera cover is rubbed strongly or a hard brush or abrasive is used to clean it, the camera may get scratched, adversely affecting the image quality.
- The camera cover is made of plastic. Do not apply organic solvent, body wax, oil remover, glass coating, etc. to it. If any of the above have been applied, wipe off immediately.
- Pouring hot water on the Rear view Camera to deice it in cold weather can lead to a drastic change in temperature that may render normal operation impossible.
- The Rear view Camera may not operate normally if the camera is damaged as a result of it being hit. Immediately bring it to your local retailer for an inspection.
- Do not leave the unit in direct sunlight for long periods of time. Otherwise, a printed image phenomenon may result.
- The figure is merely an example. The range appearing on the monitor screen varies depending on the vehicle model.
- The instant the vehicle is put in reverse, part of the monitor will appear white then gradually stabilize.
- A white vertical band will appear when the camera is struck by light from the sun, headlights or any other strong light beam source (Smear effect).
- After having used the unit for a long time, white scratches and vertical lines may appear due to a rise in temperature, depending on the features of the CCD.
- The 50 Hz power source range fluorescent light may cause flickering in the screen. This is not a malfunction.
- Because the Rear view Camera uses a special lens, the image and distance appearing on the screen differs from the actual image and distance.

Rear view Camera image

Displaying the rear view image

1 Select reverse gear.

- The rear image appears on the monitor screen.
- Shifting to any gear other than reverse will return to the previous screen displayed (Navigation, audio, blank screen, etc).

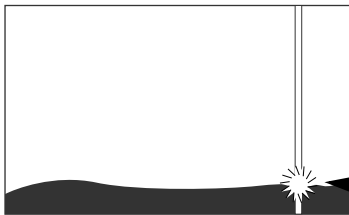


1. Rear view Camera operations



- The range of the image may vary depending on the vehicle and the road conditions.
- There is a limit to the range of the camera. Objects near the ends of the bumper and under the bumper cannot be seen.
- The rear image color may vary from that of the actual objects.
- The image brightness and contrast can be adjusted. (Refer to "**Adjusting/setting the screen**" in the "**Owner's manual/Audio**".)
- Depending on the vehicle, the back guideline may appear misaligned on the left and right. This is not a malfunction.
- In the following situations, the screen may be difficult to view but they do not constitute a malfunction:
 - In a dark area (such as at night)
 - The temperature near the camera is high or low
 - Raindrops are on the camera lens or the humidity is high (when raining)
 - A foreign object is near the camera (such as mud)
 - When the sun or a beam from headlights strikes the camera lens directly
 - When a high-luminance point strikes the camera (such as the reflection of the sun's rays on the chassis), a Smear effect* typical of CCD cameras may occur.

[Screen condition]



*Smear effect: A phenomenon where a vertical line appears from a high-luminance point striking the camera (such as the reflection of the sun's rays on the chassis).




High-luminance point


1. Situations when a correction is necessary

A correction is necessary when:

- Changing a tire ... perform an automatic correction (distance compensation).

It is possible to make a correction when:

- The vehicle position mark  appears in a location different to the actual present location (when the  mark is misaligned) ... the position and heading of the vehicle position mark  can be corrected (present location correction).

However, even if the vehicle position mark  on the map is misaligned, if you continue driving the present location should be automatically corrected using map-matching and GPS data. In some cases, this may take several minutes.

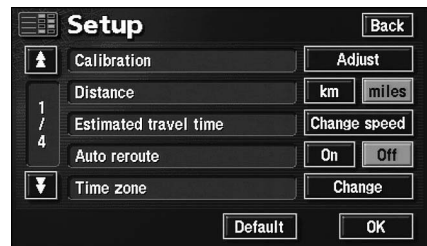
If signals from the GPS cannot be utilized and the present location is left uncorrected, park the vehicle in a safe place and correct the present location.

Correcting present location

1 Touch **Setup** in the Menu screen.




2 Touch **Adjust** for Calibration.

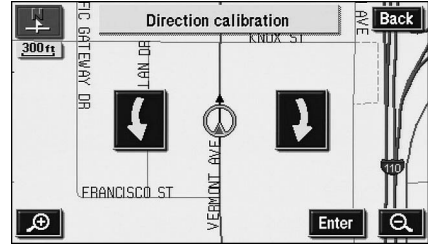
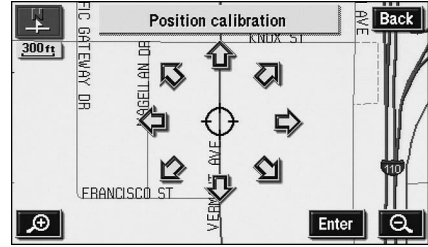
3 Touch **Position/Direction**.



Touch **Default** in the Setup screen to return all items to their default settings.

1. Situations when a correction is necessary

- 4 Touch  .
 - Move the map to the actual present location.
- 5 Touch **Enter** .
- 6 Set the direction.
 - Touch  to turn the direction counterclockwise, and  to turn it clockwise.
- 7 Touch **Enter** .



You can correct the present location using detailed maps with a scale of 0.5 miles or less.

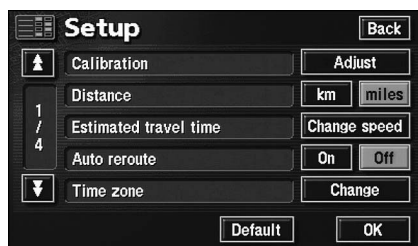
Correcting the distance

1 Touch **Setup** in the Menu screen.

2 Touch **Adjust** for Calibration.


3 Touch **Tire change** .

- Automatic correction is performed.



- This device performs automatic distance correction using GPS and vehicle speed signals. Correction may be delayed in the event of a sharp deviation that overwhelms the automatic correction function, such as changing a tire or reinstalling the device in another vehicle.

In such a case, drive about 6 miles along a road indicated by favorable GPS signal reception conditions.

- If correction is impossible, have the device inspected at your local retailer.
- During automatic correction, the vehicle position may be misaligned.
- As a result of the on board distance compensation learning function, there may be variations in the progression of the vehicle position mark  even if automatic correction has been completed, depending on the driving conditions.
- Touch **Default** in the Setup screen to return all items to their default settings.

2. Saving Navigation settings

It is possible to save each kind of setting in up to 3 different patterns.

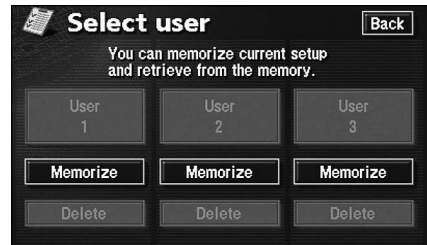
You can retrieve a setting pattern from those already saved and use those settings for navigation.

Settings that can be saved

| Item | Page | Item | Page |
|--------------------------------------------------|---------|--------------------------------|------|
| Setting the map orientation | 34 | Setting the volume | 27 |
| Setting map view mode | 35, 114 | Setting all Setup screen items | 19 |
| Setting the map reduction scale | 32 | Route preference | 96 |
| Setting the right screen in split screen display | 35 | | |

Saving navigation settings

- 1 Setting conditions you want to save.
 - There is no need to make changes when saving current conditions.
- 2 Touch **Select user** in the Menu screen.
- 3 Touch **Memorize** .
- 4 Touch **Yes** .
 - Touch **No** to return to the original screen.
 - Touch **Memorize** under settings already saved followed by **Yes** to overwrite.



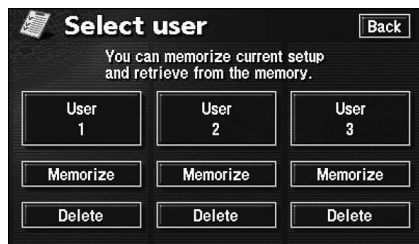
When there are no saved settings, **Delete** is shaded and cannot be operated even if touched.

Retrieving saved settings

1 Touch **Select user** in the Menu screen.

2 Touch **User 1** , **User 2** or **User 3** .

- The current navigation settings are replaced by those saved under the selected touch switch.



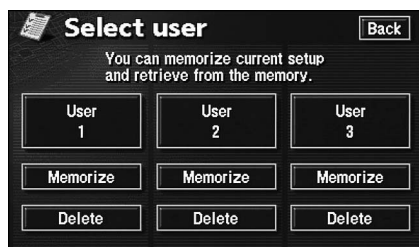
Deleting all saved navigation settings

1 Touch **Select user** in the Menu screen.

2 Touch **Delete** under User 1, 2, or 3.

3 Touch **Yes** .

- Touch **No** to return to the original screen.



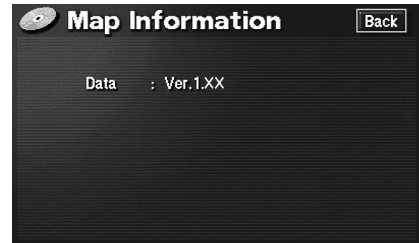
3. Map data information

It is possible to view the information, such as map data, stored in this device.

The screen below is only an example. Data displayed may vary depending on the type of map data and when it was created.

Displaying map data information

- 1 Touch **Map Info** in the Menu screen.



4. Accuracy and errors

Positioning accuracy

The GPS is a very accurate satellite system controlled by the U.S. Department of Defense. Errors may result due to the occurrence of a multipath caused by reflections off buildings or other structures.

GPS signal quality and reception conditions

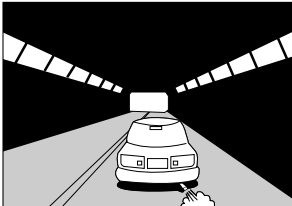
Any obstruction coming between the satellite and the GPS antenna will disrupt signal reception from the satellite.

Also, 3 or more signals must be received simultaneously to enable positioning. When driving along locations such as those shown below, GPS positioning is not possible.

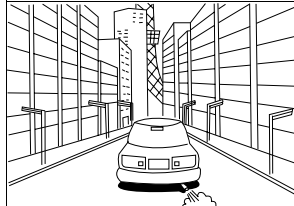
In addition, obstructions placed on or near the GPS antenna (such as a load) will disrupt signals from the satellite.

- Because the GPS satellite orbits the earth, signal reception conditions may vary depending on the position of the satellite even if driving in the same area. Signals from a satellite orbiting near the horizon are more likely to be obstructed.
- The GPS satellite is controlled by the U.S. Department of Defense and can be deliberately made to lose positioning accuracy.

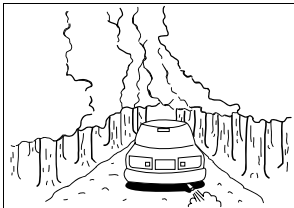
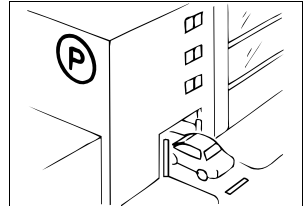
Underground, in a tunnel or in an indoor parking structure



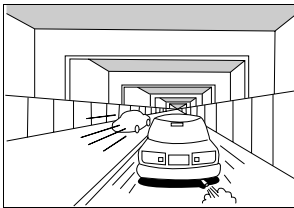
Surrounded by obstructions such as tall buildings



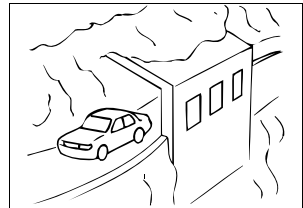
In a building



Densely wooded areas



Under an elevated road



On a cliffside road or at a cavern opening

4. Accuracy and errors



Under the following conditions, make sure to install the GPS antenna in the position indicated in the instruction manual for your vehicle model.

- If the noise emitted from another electrical device diminishes signal reception.
- If the device may cause an obstruction to the proper operation of airbags.
- If the satellite signal received from the side or rear of the vehicle is diminished because of a windshield pillar or roof panel.

Present location display error

In order to find the exact position of the present location, this device uses compiled data from the GPS satellite, vehicle speed sensor and vibration gyro sensor. Because each of these contains a margin of error, the present location indicated may not exactly coincide with your actual positioning.

If the indication is different from your actual position, the present location displayed can be corrected. Park the vehicle in a safe place first before proceeding.

Tire-related errors

The device calculates the distance traveled by the vehicle using a speed sensor that measures tire rotation. The following situations will result in a significant error that may render proper present location positioning impossible.

- Using a substandard tire.
- Driving on a snow-covered, gravel, or other slippery road.
- Incorrect tire air pressure.
- Using new tires (the distance compensation coefficient setting can be changed and adjusted).

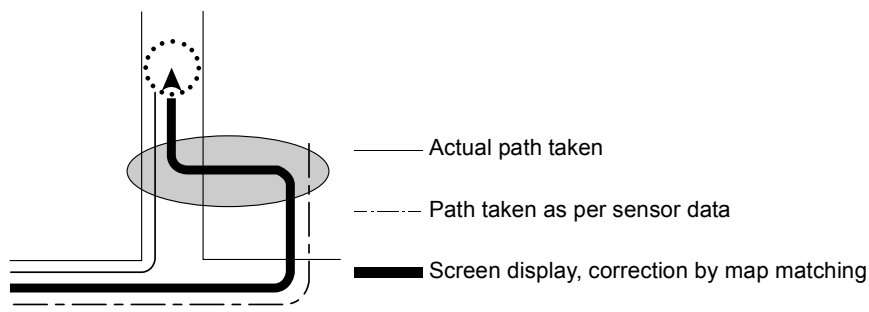
Correcting the vehicle position sensor using map-matching

Map-matching is a system that compares present location positioning data from the GPS and other sources with actual driving information in order to match the present location with the most appropriate road.

This device corrects the present location data compiled from independent navigation and satellite navigation and matches it with the shape of the road.

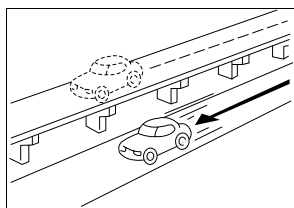
However, there may be instances when a present location error cannot be avoided and the position indicated on the map does not coincide with your actual positioning, even after a correction using map-matching.

Also, driving along a road whose actual shape differs from the map data may result in a vehicle position mark misalignment.

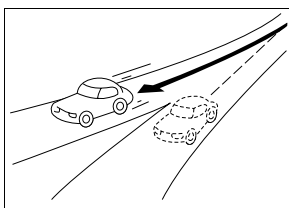


Present location display, route guidance accuracy

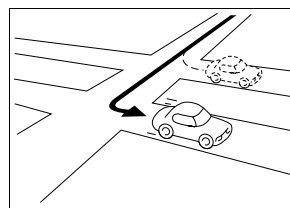
The following situations are not malfunctions but merely some examples of inaccurate present location positioning and/or route guidance, depending on the road and driving conditions.



The present location appears on a road running parallel to the road taken.

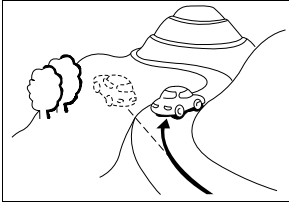


When turning on a road forking into two roads making a "Y" shape, the present location appears on the other road.

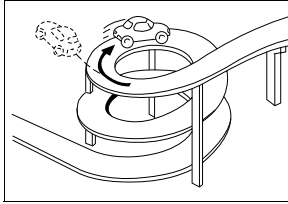


When making a turn, the present location appears on the road just before or after the road turned on.

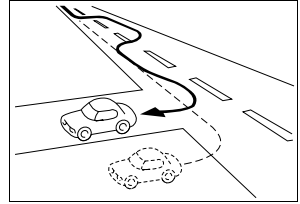
4. Accuracy and errors



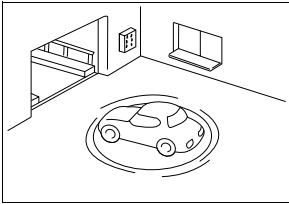
The present location appears misaligned when driving on steep roads.



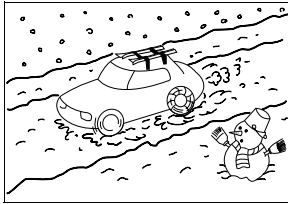
The present location appears misaligned when driving on a continuous curve in the same direction.



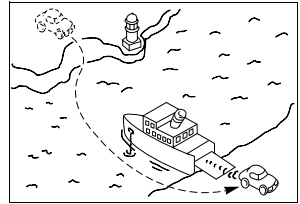
The present location appears misaligned when changing lanes.



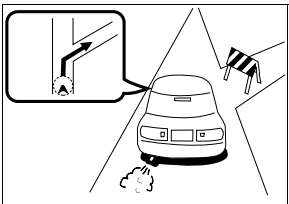
The present location appears misaligned when the vehicle is rotated on a parking structure turntable with the ACC turned OFF.



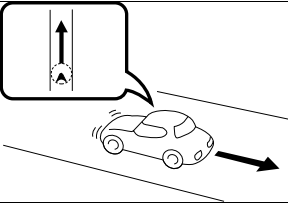
The present location appears misaligned when driving on a snowbound or slippery road or when using tire chains.



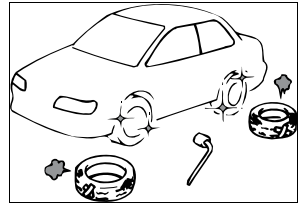
When the vehicle is moved by ferry or a means other than being driven, the GPS positioning will indicate a present location on the spot where the vehicle was prior to being moved.



When route guidance indicates a road that is actually blocked off (regular traffic prohibited).



The present location appears misaligned when backing up.

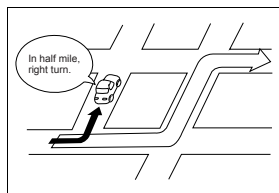


After changing the tire(s), the vehicle position mark may be misaligned.

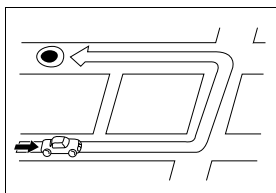
Road and geographic name data

Roads and geographic locations indicated are subject to change after the compilation of the map data and may therefore differ from the actual roads and names.

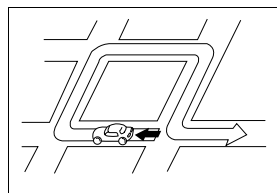
Route guidance



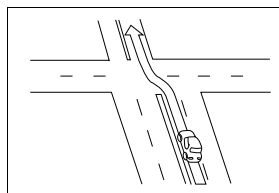
If you turn at an intersection that is not part of the route guidance, there may be an error in the voice guidance instructions.



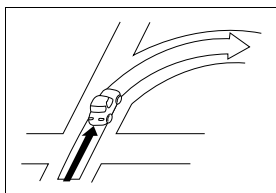
When searching for a route, the route provided may include a detour.



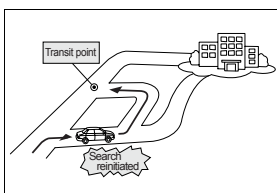
The route guidance may instruct a U-turn.



When driving on a straight road, the route guidance may instruct you to go straight (in cases where the shape of intersections is difficult to determine).

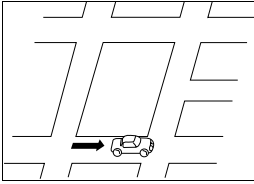


No route guidance may occur even if turning at an intersection.

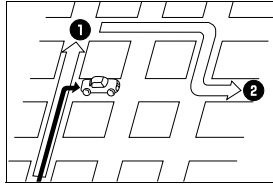


When driving towards a destination without passing through a transit point, the device may reinitiate a route search and provide a new route that takes you towards that transit point.

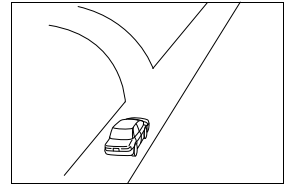
4. Accuracy and errors



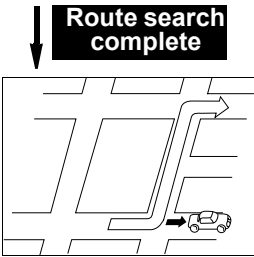
When searching for a route, the route display may not appear in time for the next turn.



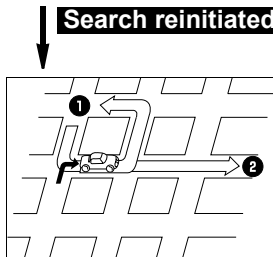
If you bypass the first of multiple destinations, a route search is reinitiated to provide a route returning to it.



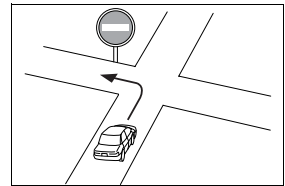
While providing guidance on where you are headed, several geographical names may be indicated.



Route search complete



Search reinitiated



Drive following the actual traffic regulations.

- It may take longer for the device to reinitiate a route search when driving on the freeway.
- If you adjust the present location mark manually and then drive before the positioning is corrected, your actual position will not be properly displayed.
- The route may not change even if a search is reinitiated.
- If you set a present location, destination or transit point on a remote island or in an area where there are no guidable roads, the device may not search for a route.
- The device may not search for a route if the present location and the destination are in close proximity.
- Route guidance may not necessarily recommend toll roads and freeways even if you set the search conditions to prioritize them.

Similarly, route guidance may display routes containing toll roads and freeways even if you have selected to exclude them from the search.

(Setting "Allow / Do not allow toll roads and freeways" prioritizes routes with or without toll roads only when both types of routes are available.)

1. Important points

If one of these messages appears

If any of the following messages are displayed, check the unit while referring to the cause and corrective action columns.

| Messages | Cause | Corrective action |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Check GPS antenna | The GPS antenna is not connected properly. | Connect the GPS antenna properly. |
| Check speed pulse | The device is not properly connected to the vehicle speed sensor. | Connect the vehicle speed sensor properly. |
| No previous points registered. | There are no previously set destinations. | Register a destination in the archive and proceed. (Setting a destination registers it in the archives). |
| Home is not registered. Register in Memory Point. | Your home is not registered as a memory point. | Register your home as a memory point and proceed. (See page 137) |
| No quick access point registered. Register in my place menu. | Quick access is not registered for the memory point. | Register quick access for the memory point and proceed. (See page 154) |
| No roads possible for guidance near current position. Please refer to map. | There are no roads where route guidance is possible in the vicinity of the present location. | Refer to a map and proceed. |
| No roads possible for guidance near current position and destination. Please refer to map. | There are no roads where route guidance is possible in the vicinity of the present location and destination. | Refer to a map and proceed. |
| No roads possible for guidance near destination. Please refer to map. | There are no roads where route guidance is possible in the vicinity of the destination. | Refer to a map and proceed. |
| Time restricted roads on this route. | The route searched for includes time restricted roads. | Reinitiate a route search that avoids time restricted roads if you want to avoid them. (See page 96) |
| Destination too far. Please change to a point within 5000 km in a straight line. | The set destination is too far. | Set the destination within a 5,000 km distance in straight line. |
| 2 preferred roads have been set. Perform operation again after deleting them. | You attempted to set 3 or more preferred road indications when changing the route. | Up to 2 preferred roads can be indicated. Cancel unnecessary preferred roads before adding a new one. |
| No roads possible for guidance nearby. Perform operation again after moving. | There are no roads available to serve as preferred roads when indicating one for a route change. | Move the map and indicate a preferred road among the roads in the vicinity. |
| Unable to save additional points. Please delete some points. | You attempted to set more than 5 destinations. | Up to 5 destinations can be set. Delete unnecessary destinations and proceed with adding new ones. (See page 108) |
| Unable to search for new route. Previous route will be displayed. | A new route could not be found when reinitiating a route search. | Route guidance will proceed using the present route. (Drive according to the route guidance.) |





1. Important points

| Messages | Cause | Corrective action |
|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Destination is nearby. Please check the map. | You attempted to set the destination in a nearby location. | The destination is nearby. Refer to the map and continue driving. |
| No corresponding POI nearby. | There is no corresponding POI found nearby for the POI search in the vicinity. | Search for the POI in another area. |
| No corresponding POI on route. | There is no corresponding POI found nearby for the POI search along the route. | Search for the POI in another area. |
| Position cannot be specified in this scale. Switching to more detailed map. | You attempted to set/register a destination/memory point on a map with a reduction scale of more than 0.5 miles. | Set/register a destination/memory point on a more detailed map (with a reduction scale of less than 0.5 miles). |
| The destination is surrounded by water. Change destination? | There is a river or other body of water between the destination and the nearest road. | Touch Yes , move the map and set a destination near the road. Touch No to set the destination on the position displayed. |
| No memory point registered. Register in menu Memory Point. | You attempted to retrieve a map using a memory point when there are none registered. | Register a memory point and proceed. (See page 142) |
| Unable to register additional points. Perform operation again after deleting unnecessary points. | You attempted to register a memory point when there are 106 points already registered. | Delete unnecessary memory points and proceed to register a new one. (See page 153) |

Before asking for repairs

Slight differences in operation can sometimes be mistaken for malfunctions, so check the following table before requesting any repairs.

If the following fail to solve the problem, contact your local retailer.

| Symptom | Possible reason | Corrective action |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The map does not move even when driving. | Is the display showing a screen other than the present location screen? | Display the present location screen. (See page 28) |
| The  vehicle position mark does not appear. | Is the display showing a screen other than the present location screen? | Display the present location screen. (See page 28) |
| The GPS mark does not appear. | Is the device in a situation where GPS data cannot be utilized? | Move the vehicle to an area free of obstructions or remove any objects placed on the GPS antenna. |
| Voice guidance not outputted. | Is the "Auto voice guidance" set to Off ? | Touch On for "Auto voice guidance" in setup. |
| | Is the guidance paused? | If the route guidance is paused, resume guidance. (See page 113) |
| | Is the guidance volume turned down (voice OFF)? | Turn up the volume. (See page 27) |
| Small blemishes or luminescent spots on the monitor screen. | This phenomenon is characteristic of liquid crystal panels. The liquid crystal panel is made with high-tech precision and has 99.99% or more effective imaging. However, there may be 0.01% image loss or lights continuously turned on. | This is not a defect, so please use the deck in this condition. |
| For a moment after turning the engine switch ON, there is an irregular display on the screen. | In cold weather, the liquid crystal panel's backlight features may emit light unevenly. | This condition stops in a few minutes as the backlight warms up. |
| The screen is difficult to view. | Are the contrast and brightness correctly adjusted? | Adjust the contrast and brightness. (See page 22) |
| The  vehicle position mark appears on a spot different from the present location. (The  vehicle position mark is misaligned.) | The  vehicle position mark may be misaligned depending on satellite conditions or vehicle status (road conditions and driving style). Also, the  vehicle position mark may be misaligned if driving on a newly constructed road or on a road with a shape different to that recorded in the map data. | Continue driving and the present location will be automatically corrected using map matching and GPS data. (In some cases, this may take several minutes.) If GPS data is not used and the present location is not automatically corrected, stop the vehicle in a safe area and correct the present location. (See page 169) |
| There is distortion or noise on the map screen | Is a device that generates electrical interference being used near the unit? Example of devices that emit high voltage: Ionizers Example of devices that emit electrical noise: Cell phones or other wireless devices | Keep such devices as far away as possible from the unit. If a device continues to cause interference, refrain from using it. |

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MEMO

MEMO

MEMO



This device complies with part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

CUSTOMER NOTICE

Please retain this booklet and write in the serial number of your AVN5495 for identification. The serial number is labeled or stamped on the chassis.

Serial No. _____

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