

## Introduction

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**Thank you for your purchase of the Navigation System. Please read this manual carefully to ensure proper use. Keep this manual stored in your vehicle at all times.**

The Lexus Navigation System is one of the most technologically advanced vehicle accessories ever developed. The system receives satellite signals from the Global Positioning System (GPS) operated by the U. S. Department of Defense. Using these signals and other vehicle sensors, the system can show you where you are and assist you in locating a desired destination.

The navigation system is designed to select efficient routes from your present starting location to your destination. The system is designed to direct you to a destination that is unfamiliar to you in an efficient manner. The system uses the maps of DENSO based on NAVTECH maps, GDT maps and infoUSA POIs. The calculated routes are neither the shortest routes nor routes without traffic congestion. Your own personal local knowledge or "short cut" may at times be faster than the calculated routes.

The navigation system's database includes more than 50 point of interest categories to allow you to easily select destinations such as restaurants and banks. If a destination is not in the database, you can enter the street address or a major intersection close to it and the system will route you there. The system will provide both a visual map and audio instructions. The audio instructions will announce the distance and direction to go when you are approaching a fork or intersection. These voice instructions will help you keep your eyes on the road and are timed to provide enough time to allow you to maneuver, change lanes or slow down.

**Please be aware that all current vehicle navigation systems have certain limitations that may affect their ability to perform properly. The accuracy of the vehicle's position depends on the satellite condition, road configuration, vehicle condition or other circumstances. For more information on the limitations of the system, refer to pages 53 through 55.**

**TOYOTA MOTOR CORPORATION**

## Introduction

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For safety reasons, this manual indicates items requiring particular attention with the following marks.



### CAUTION

This is a warning against anything that may cause injury to people if the warning is ignored. You are informed about what you must or must not do in order to reduce the risk of injury to yourself and others.

### NOTICE

*This is a warning against anything which may cause damage to the vehicle or its equipment if the warning is ignored. You are informed about what you must or must not do in order to avoid or reduce the risk of damage to your Lexus and its equipment.*

### INFORMATION

*This provides additional information.*

*Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received including interference that may cause undesired operation.*

## Initial screen



When you start the engine system or turn the ignition switch to “ACC”, the initial “LEXUS” screen appears and the system begins operating.



### CAUTION

**When the vehicle is stopped with the engine running, always apply the parking brake for safety.**

After a few seconds, the “CAUTION” screen appears.

## Introduction

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**Touch either “English” or “French” to select the language. Read it and follow the instructions.**

If a screen other than for the navigation system is displayed (i.e., for the trip information screen), the current screen would change to the “**CAUTION**” screen by pushing the “**MAP/VOICE**”, “**DESTINATION**” or “**MENU**” button on the bezel or by touching the “Maintenance” switch on the “Information Menu” screen.

**When you touch the “I agree” switch on the screen, the Map screen appears.**

## Safety Introduction

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To use your system as safely as possible, follow all the safety tips shown below.

This system is intended to assist you in reaching your destination and, if used properly, can do so. You, as the driver, are solely responsible for the safe operation of your vehicle and the safety of your passengers.

Do not use any feature of this system to the extent it distracts you from safe driving. Your first priority while you are driving should always be the safe operation of your vehicle. While you are driving, be sure to observe all traffic regulations.

Before attempting to use this system while you are driving, learn how to use it and become thoroughly familiar with it. Read the entire Navigation System Manual to make sure you understand the system. Do not allow others to use this system until they have read and understood these and other instructions in this manual.

For your safety, some functions may become inoperable when you start driving. Unavailable switches are dimmed. You can input your destination and select your route only when the vehicle is not moving.

 **CAUTION**

- **For safety, the driver should not operate the navigation system while he/she is driving. Inattention to the road and traffic may cause an accident.**
- **While you are driving, be sure to follow the traffic regulations and keep the road condition in mind. If a traffic sign on the road has been changed, route guidance may provide wrong information such as the direction of a one way street.**

While you are driving, listen to the voice instructions as much as possible and glance at the screen briefly and only when it is safe. However, do not totally rely on voice guidance. Use it just for your information. If the system cannot determine your current position correctly, there is a possibility of incorrect, late or non-voice guidance.

The data in the system may occasionally be incomplete. Road conditions, including driving restrictions (no left turns, street closures, etc.) frequently change. Therefore, before you follow any instruction from the system, look to see whether you can comply with the instruction safely and legally.

This system cannot warn you about such things as the safety of an area, condition of streets, and availability of emergency services. If you are unsure about the safety of an area, don't drive into it. **Under no circumstances is this system a substitute for the driver's personal judgement.**

## **Safety Introduction**

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Use this system only in locations where it is legal to do so. Some states/provinces may have laws prohibiting video screens within sight of the driver.



## Overview of Touch Screen and Switches

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### Switch operation

This system operates mainly by the switches on the screen. To protect the screen, lightly touch switches on the screen with your finger. When you touch a switch on the screen or push a button, a beep sounds.

- *Under extremely cold conditions, the display may take time to change and the map may not be displayed. Also, the buttons on the bezel may be harder than usual to depress, and the data input by a user may be deleted.*

#### **INFORMATION**

- *If the system does not respond to a touch of a switch, move your finger away from the screen and then touch it again.*
- *You cannot operate dimmed switches.*
- *Wipe off fingerprints on the surface of the display using a glass cleaning cloth.*
- *The displayed image may become darker and moving images may be slightly distorted when the display is cold.*

## Symbols, Switches and Buttons

### Symbols, Switches and Buttons

**MAP/VOICE button**  
Touch this button to repeat voice guidance, cancel one touch scroll and start guidance. For details, see page 36.

**DESTINATION button**  
Push this button to display the Destination screen. For details, see page 4.

**MENU button**  
Push this button to display the Menu screen. This screen allows you to make adjustments or correct settings of various options and functions.

**INFO button**  
Push this button to display the Information menu screen. For details, see page 91.

**DISPLAY button**  
Push this button to display the Display screen. For details, see page 106.

**North-up or Heading-up symbol and Scale of map**  
Indicates a map view with north up or heading up. Touching this symbol changes the map orientation. The figure also indicates the map scale. For details, see page 52.

**GPS (Global Positioning System) mark**  
Whenever your vehicle is receiving signals from the GPS, this mark is displayed. For details, see page 53.

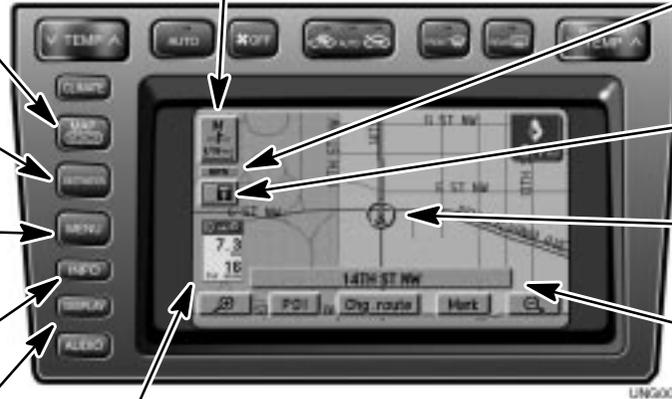
**Map/Guidance**  
Touch this switch to change the screen mode. For details, see page 31.

**Current vehicle position mark**  
Indicates the current position. For details, see page 36.

**Current street name**  
Turn on this function to indicate the current street name. For details, see page 91.

**Distance and time to destination**

Displays the distance and the estimated travel time to the destination. If you input more than two destinations, it displays the distance and time to the next destination. Touching this indication will change it to the distance and time to the other destinations. The direction will be indicated when your vehicle is off the route.



## Symbols, Switches and Buttons

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### Changing the route guidance

When you touch this switch, the Change route screen will appear. For details, see page 32.



### One-touch registration of marked point

Touch this switch to register the current vehicle position as a marked point. For details, see page 75.



### Displaying of points of interest

Icons such as restaurants and hotels, etc. can be displayed on the screen. For details, see page 46.



### Zoom in/Zoom out

These switches magnify or reduce the map scale. For details, see page 50.



# SECTION I

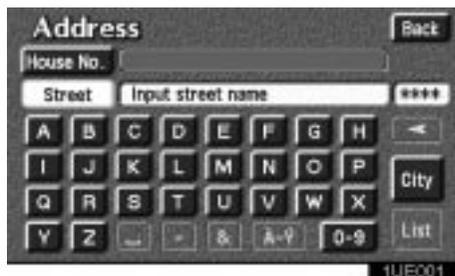
## BASIC FUNCTIONS

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## Inputting Letters and Numbers

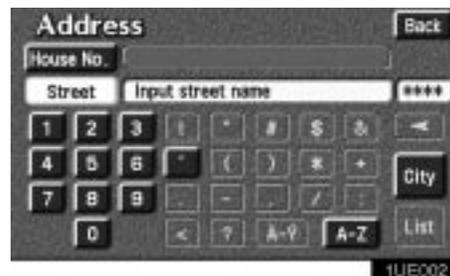
The navigation system operates by switches on the screen and the buttons located on the front face around the screen. When you touch a switch or push a button, a beep sounds. When using the switches on the touch screen, please use only light pressure with your finger to protect the screen from damage. Do not use objects other than your finger to touch the screen.



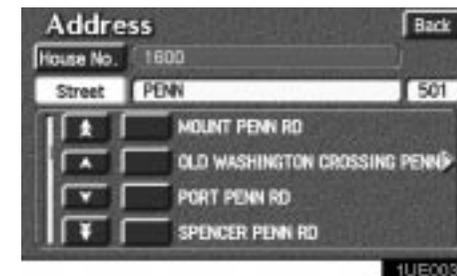
To type in an address etc., directly touch alphabet keys on the screen. If you touch a wrong letter, delete it using the  switch. Touching the  switch erases one letter.

Touching the “List” switch will change the screen to a display of the database items that match the name or address that you have entered on the screen. The number of matching items is shown to the right side of the screen. If the matching item is more than 9,999, the system displays “\*\*\*” on the screen.

To input numerals, touch the “0-9” switch and the display will change the screen to number input display.



Touching the “A-Z” switch changes the screen back to the previous name input display.



When a list is displayed, you can scroll or page through the list by using the appropriate switch.

 To shift to the next or previous page.

 To scroll up or down one item at a time.

 This expresses a displayed screen position.

## Inputting Letters and Numbers

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▶ If ▶ appears on the right of the item name, the complete name is too long for the display. Touch ▶, and the name will scroll to the end of the name.

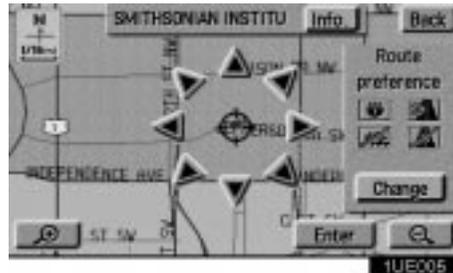
◀ Touching ◀ will scroll the name to the beginning of the name.



## How to Move the Cursor



1. Touch the **“Adjust”** switch to move the cursor .



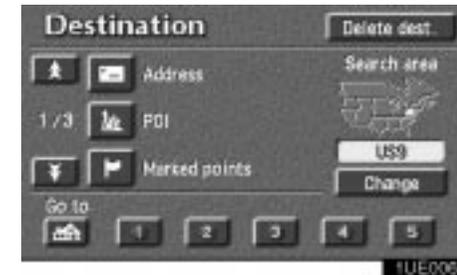
► **Position locating screen on the map**

2. When you touch an arrow facing your desired point, the map scrolls in that direction. When you release your finger, scrolling stops.

3. If you touch the **“Enter”** switch, the position of cursor  is set.

## Destination Input

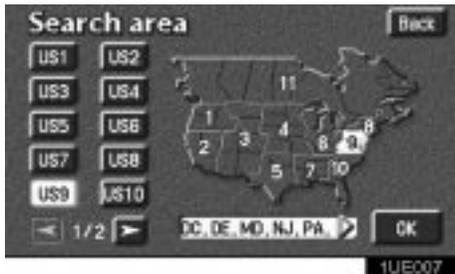
Push the **“DESTINATION”** button and the Destination screen appears.



The Destination screen allows you to select the area to search for your destination.

**Touch the “Change” switch on the Destination screen to display a map of the United States and Canada divided into 11 areas.**

## Destination Input



Touch one of the “US1” through “CAN” switches to select the search area. Touch the “OK” switch and the Destination screen returns.

Once you choose the area to search, you can use one of 11 different methods to enter your destination.

USA	
Switch	States included in the search area
US1	Idaho Oregon Washington
US2	California Nevada
US3	Arizona Colorado Montana New Mexico Utah Wyoming
US4	Iowa Kansas Minnesota Missouri Nebraska North Dakota South Dakota
US5	Oklahoma Texas
US6	Illinois Indiana Kentucky Michigan Ohio Wisconsin

US7	Alabama Arkansas Louisiana Mississippi Tennessee
US8	Connecticut Maine Massachusetts New Hampshire New Jersey New York Rhode Island Vermont
US9	Delaware Maryland New Jersey Pennsylvania Virginia West Virginia
US10	Florida Georgia North Carolina South Carolina



## Destination Input

Canada	
Switch	States and regions included in the search area
CAN	Alberta British Columbia Manitoba New Brunswick Newfoundland and Labrac Nova Scotia Ontario Prince Edward Island Québec Saskatchewan

You can find your destination using various methods. See page 7 through 25 for the detailed steps.

**1. By Home (🏠 switch on the Destination screen):** You can select your own home without entering the address each time. In this case, it is necessary to register your home beforehand. See page 7 for the detailed steps.

**2. By Preset destination (1 — 5 switches on the destination screen):** You can select one of 5 preset destinations directly. In this case, it is necessary to register the destinations beforehand. See page 8 for the detailed steps.

**3. By Address:** You can input the house number and the street address by using the input keys. See page 9 for the detailed steps.

**4. By Point of Interest:** You can select one of the many points of interest that have been already stored in the system's database. There are more than 50 categories to choose from including restaurants, banks and automotive places. See page 12 for the detailed steps.

**5. By Marked point:** You can register your own favorite destinations as a "Marked Point". The system allows you to store up 100 marked points. See page 18 for the detailed steps.

**6. By Previous destination:** You can select a destination from any of the last 20 previously set destinations. See page 19 for the detailed steps.

**7. By Emergency:** You can select one of the three points of emergency service points that have been already stored in the system's database. See page 20 for the detailed steps.

**8. By Intersection:** You can enter the names of two intersecting streets. This is helpful if you do not know the specific street address of your destination but know the general vicinity. See page 21 for the detailed steps.

**9. By Freeway Entrance/Exit:** You can enter the name of the freeway (interstate) entrance or exit. See page 22 for the detailed steps.

**10. By Previous starting point:** You can enter a point where the system has started to guide last time. See page 24 for the detailed steps.

## Destination Input

**11. By Map Selection:** You can select a destination simply by touching the location on the displayed map. See page 25 for the detailed steps.

### INFORMATION

- *When inputting the destination, the response to the switch may be slow.*
- *“Points of interest” registration is made based on the NAVTECH “Standard POI Inclusion List” and infoUSA POI data.*
- *If there is no point registered, switches such as “Marked point”, “Previous destination” or “Previous starting point” are dimmed and not available.*
- *The route for returning may not be the same as that for going.*
- *The route guidance to the destination may not be the shortest route or a route without traffic congestion.*
- *Route guidance may not be available if there is no road data for the specified location.*

- *When setting the destination, you should use the map on a scale of one half mile or smaller.*
- *To select an “Address”, “Points of interest”, “Freeway Entrance/Exit” or “Intersection” in a different area, a search area’s change is necessary.*

### CAUTION

**While you are driving, be sure to follow traffic regulations and keep the road condition in mind. If a traffic sign on the road has been changed, the route guidance may provide wrong information.**

## Destination Input by Home

Touch the  switch on the Destination input screen.

The screen changes and displays the map location of your home. (See “Entering Destination” on page 25.)

The system starts the guidance from your current position to your home immediately after you touch the  switch.

For the steps to register your home, see “Registering your home” on page 40.

## **Destination Input by Preset Destination**

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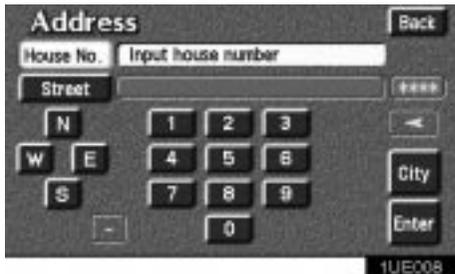
Touch any of **1** — **5** (preset destination) switches on the destination input screen.

The screen changes and displays the map location of the preset destination.

The system starts the guidance from your current position to the preset destination immediately after you touch the preset destination switch.

For the steps to register the preset destination, see “Registering preset destination” on page 42.

## Destination Input by Address

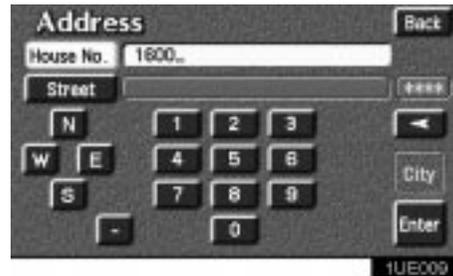


There are 2 ways to input a destination by address.

### (a) Inputting a house number and a street name

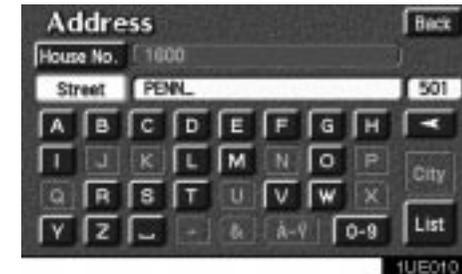
Touch the “Address” switch on the Destination screen. The Address screen appears, and then you can input a house number.

Touch letters directly on the screen to input a house number.



After inputting a house number, touch the “Enter” switch to display the screen which you can input a street name.

It is possible to input a street name first. Touch the “Street” switch to display the screen which you can input a street name.



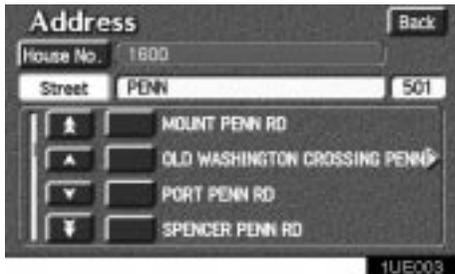
After each letter is input, the system searches the database for street names that match. Alphabet keys are dimmed if the database does not have a match for the next letter in the remaining list of matching street names.

When you input numerals, touch the “0–9” switch to display the screen for numeral input.

Based on your input, the number of matching sites appears at the top right of the screen. After the number decreases to some extent, touch the “List” switch to display the street selection list. If the number of matches decreases to 4 or less, the screen changes automatically to the selection list.

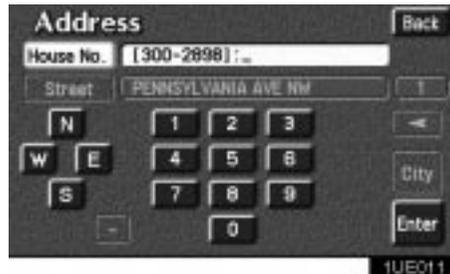


## Destination Input by Address

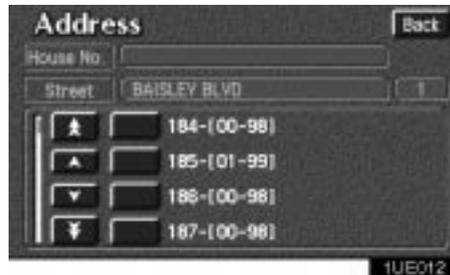


When you find your desired street name, touch  of the item. The screen changes and displays the map location of the selected destination and the route preference. (See “(a) Entering Destination” on page 25.)

If the same address exists in more than one city, the current screen changes to the screen to select the city. Select or enter your desired city.



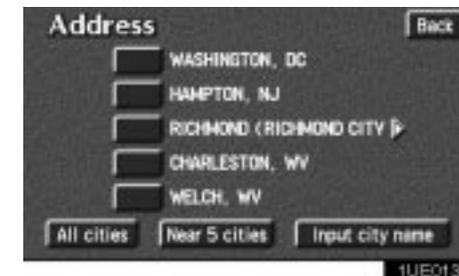
If you input a street name first, the screen changes. You can then input the house number.



If the above screen appears, you can select an address range on that screen.

### (b) Selecting a city to search

The screen for selecting last 5 cities appears if you touch the “City” switch on the Address screen on page 9.



Last 5 cities are displayed on the screen.

If you have not used this function yet, any city is not displayed on the screen.

Touch the  of the desired city name. The current screen changes to the screen which is for inputting a street name.

**All cities:** All cities are selected.

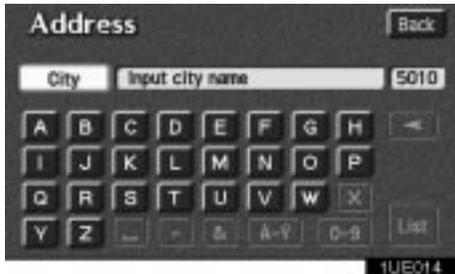
**Near 5 cities:** Near 5 cities are displayed. Selecting a city in the list changes to the display to input a street name.

**Input city name:** The screen for inputting the city name appears.

## Destination Input by Address

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The screen for inputting a city name appears if you touch the **“Input city name”** switch on the Address screen.



Input the city name.

After the number decreases to some extent, touch the **“List”** switch to display the city selection list. If the number of matches decreases to 4 or less, the screen changes automatically to the selection list.

Touch the **■** of the desired city name.

The current screen changes to the screen which is for inputting a street name. After inputting a street name, the screen may change to the screen which is for inputting a house number. Input a house number. Then touch the **“Enter”** switch to display the map screen.

The screen changes and displays the map location of the selected destination and the route preference. (See **“(a) Entering destination”** on page 25.)

## Destination Input by POI

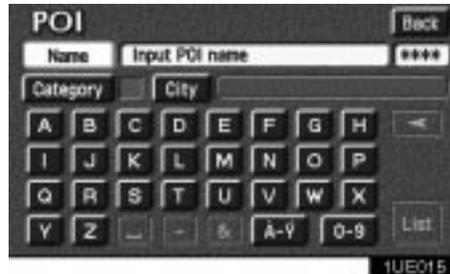
There are 3 ways to select a point of interest location.

- (a) Input the name directly
- (b) Selecting a city to search
- (c) Selecting from the categories

It will not take a long time for you to find your destination if you use a combination of the searching ways of (a), (b) and (c).

### (a) Input the name directly

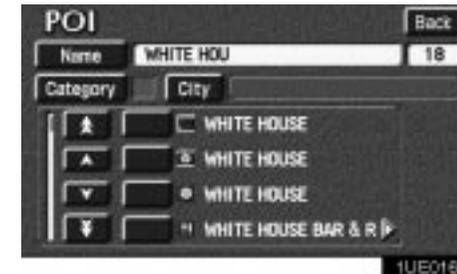
Touch the “POI” switch on the Destination screen.



The POI screen appears, and then you can input the name of the point of interest.

Touch letters directly on the screen to input a name. When you input numerals, touch the “0-9” switch to display the screen for numeral input.

If the number of sites becomes 4 or less, or if you touch the “List” switch at the bottom right of the screen, the screen changes and displays a list of sites.



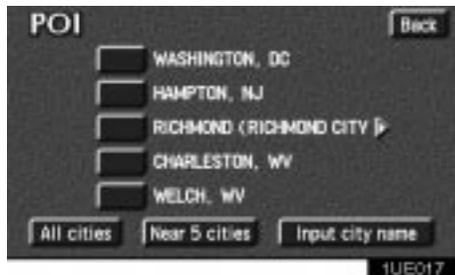
Touch the  of your desired destination. The screen changes and displays the map location of the selected destination and the route preference. (See “(a) Entering Destination” on page 25.)

If the same name exists in more than one city, you can search it more easily with the “City” and “Category” switch. (See (b) Selecting a city to search and (c) Selecting from the categories.)

## Destination Input by POI

### (b) Selecting a city to search

Touch the “City” switch on the POI screen.



**Last 5 cities are displayed on the screen.**

If you have not used this function yet, any city is not displayed on the screen.

**Touch the [ ] of the desired city name. The current screen changes to the screen which is for inputting a name of POI.**

**All cities:** All cities are selected.

**Near 5 cities:** Near 5 cities are displayed. Selecting a city in the list changes the display to input the name of the POI.

**Input city name:** The screen for inputting the city name appears.



**Input the city name.**

If the number of sites becomes 4 or less, or if you touch the “List” switch on the screen, the screen changes and displays the selection list.

Touch the [ ] of the desired city name.

**After entering the city name, input the name of the POI.**

### (c) Selecting from the categories

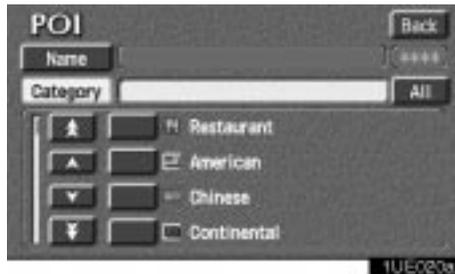
Touch the “Category” switch on the POI screen.



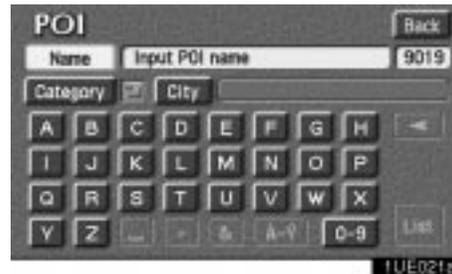
**The categories are shown on the screen. When you touch the icon switch of your desired category, more detailed categories are shown.**



## Destination Input by POI

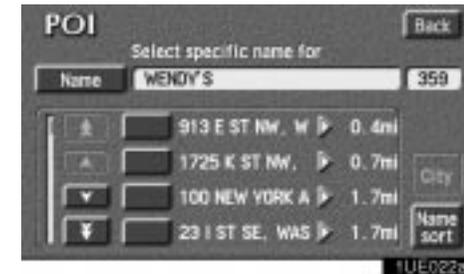


When you touch the **Category** of your desired category, the screen changes and displays the menu to input a name.



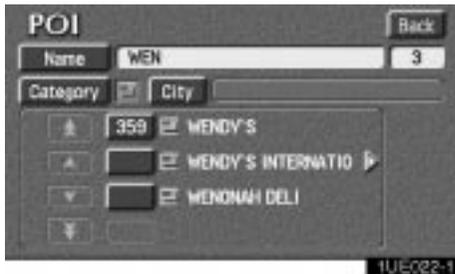
Once you have selected a category, you can touch letters directly on the screen if you input a name. When you input numerals, touch the "0-9" switch to display the screen for numeral input.

If the number of sites becomes 4 or less, or if you touch the "List" switch at the bottom right of the screen, the screen changes and displays a list of sites.



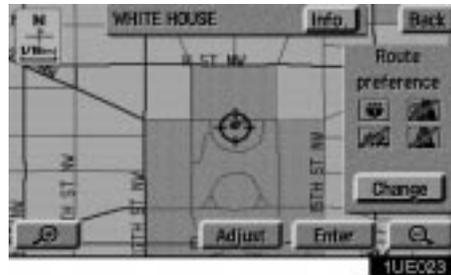
If you input the name of the specific point of interest and if the number of sites with the same name is more than one, the "Name sort" switch will be shown.

## Destination Input by POI



Touch the **“Name sort”** switch on the screen. A listing of all the items is displayed in alphabetical order.

When you touch the  of your desired item, the screen changes and displays the map location of the selected destination and the route preference. (See **“(a) Entering Destination”** on page 25.)



Touch the **“Info.”** switch on the screen to display the selected destination name, address and telephone number.

### ***INFORMATION***

*The desired point of interest can be displayed on the Map screen. (For details, see page 47.)*

### POI (Points of Interest) icons



AUTOMOBILE CLUB



AUTO SERVICE & MAINTENANCE



GAS STATION



LEXUS DEALERSHIPS  
(all search areas)



PARKING GARAGE/HOUSE



PARKING LOT



TOYOTA DEALERSHIPS  
(all search areas)



## Destination Input by POI

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ATM



HOSPITAL



MARINA



BANK



LIBRARY



MUSEUM



CITY HALL



POLICE STATION



PARK/RECREATION  
(all search areas)



CIVIC/COMMUNITY CENTER



SCHOOL



PERFORMING ARTS



CONVENTION/EXHIBITION  
CENTER



AMUSEMENT PARK  
(all search areas)



SKI RESORT



COURT HOUSE



CASINO



SPORTS COMPLEX



HIGHER EDUCATION



GOLF COURSE



TOURIST ATTRACTION  
(all search areas)

## Destination Input by POI

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WINERY



JAPANESE



BUS STATION



RESTAURANT



MEXICAN



COMMUTER RAIL STATION



AMERICAN



SEAFOOD



FERRY TERMINAL



CHINESE



OTHER



HISTORICAL MONUMENTS



CONTINENTAL



GROCERY STORE



HOTEL



FRENCH



SHOPPING



PARK AND RIDE



ITALIAN



AIRPORT (all search areas)



RENTAL CAR AGENCY



## Destination Input by POI



REST AREA



TOURIST INFORMATION



TRAIN STATION



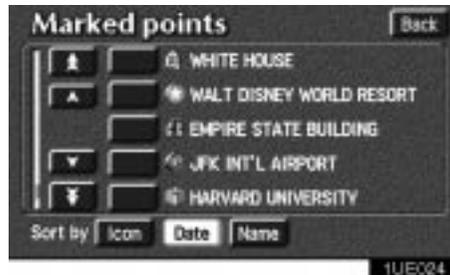
BUSINESS FACILITY



CITY PLACE    CENTER/NAMED

## Destination Input by Marked Points

Touching the “**Marked points**” switch on the Destination screen displays your list of registered marked points. See page 70 on registering and editing marked points.



When you touch the  of your desired item, the screen changes and displays the map location of the selected destination and the route preference. (See “Entering Destination” on page 25.)

There are 3 ways to list the marked point by touching switches on bottom of the screen.

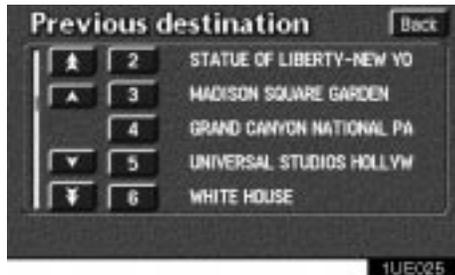
**Sort by Icon:** Touch this switch to list the marked points by the registered icon. There are 46 icons and 3 sound icons. (For details, see page 70.)

**Sort by Date:** Touch this switch to list the marked points in order of registered date.

**Sort by Name:** Touch this switch to list the marked points in alphabetical order.

## Destination Input by Previous Destination

Touch the **“Previous dest.”** switch on the Destination screen.



The screen lists up to 20 previously set destinations.

Select your desired destination. The screen changes and displays the map location of the selected destination and the route preference. (See **“(a) Entering Destination”** on page 25.)

You can delete the list of previous destinations while you stop your car, if you no longer need them.

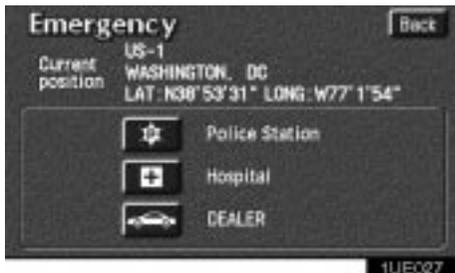


Push the **“MENU”** button to display the Menu screen and touch the **“Marked points”** switch. Touch the **“Del.prev.dest.”** switch.

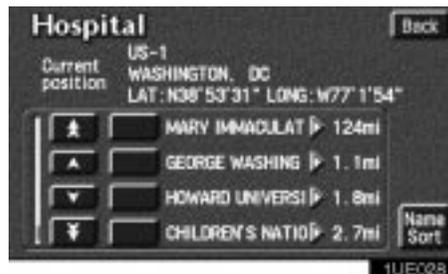
When you touch the switch on each previous destination or **“Delete all”** switch, a message appears to confirm your request. If you are sure, touch the **“Yes”** switch. If not, touch the **“No”** switch.

## Destination Input by Emergency

By touching the “Emergency” switch on the Destination screen, the display changes to a screen to select dealers, hospitals or police stations. During driving, only nearby police stations, hospitals or dealers are shown. The current position is shown with an address, the latitude and the longitude at the top of the screen.



When you touch your desired emergency category, the selected emergency category list is displayed.



The distance from your current position up to the destination is displayed on the right of the name.

You can see the names of the emergency destinations in alphabetical order by touching the “Name Sort” switch on the screen.

Touch the **Info** of your desired item. The screen changes and displays the map location of the selected destination and the route preference. (See “(a) Entering Destination” on page 25.)

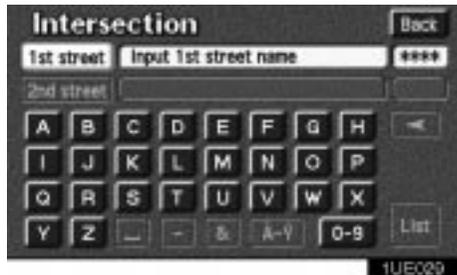
Touch the “Info.” switch on the screen to display the selected emergency destination name, address and telephone number.

### INFORMATION

*The navigation system does not guide in areas where route guidance is unavailable. (See page 56.)*

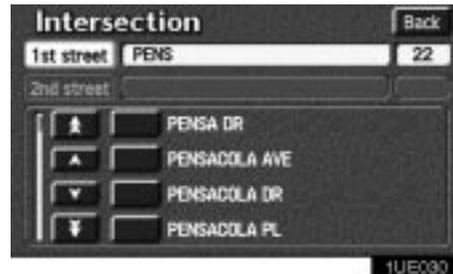
## Destination Input by Intersection

Touch the “Intersection” switch on the Destination screen.

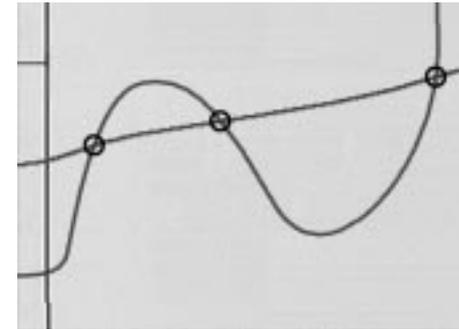


Input the name of the two intersecting streets which are located near the destination to be set.

When you touch the “List” switch or the number of sites becomes 4 or less, the list of matching street names appears.



Touch the  of your desired item. After inputting the two intersecting streets, the screen changes and displays the map location of the selected destination and the route preference. (See “(a) Entering Destination” on page 25.)



If the same two streets cross at more than one intersection, the screen changes and displays the menu to select the city name where the streets intersect. Select the city and the map location of the selected destination and the route preference. (See “(a) Entering Destination” on page 25.)



## Destination Input by Freeway Entrance or Exit

To input a freeway entrance or exit, touch the “FWY Ent./Exit” switch on the Destination screen.



Be sure to use the complete name of the freeway, including the hyphen, when entering the destination. Freeways and interstates use an “I” (I-405). US highways use the state designation before the number (CA-118).

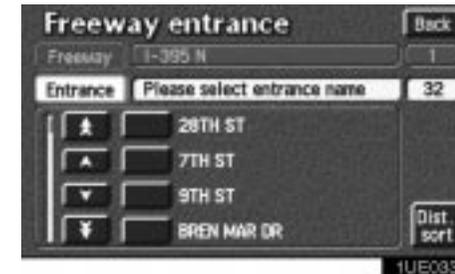
As the number of matching freeways decreases, you can touch the “List” switch to display the list. When the number of sites becomes 4 or less, the list screen appears automatically.



Select the desired freeway by touching the .



You can then select either a freeway “Entrance” or “Exit”.



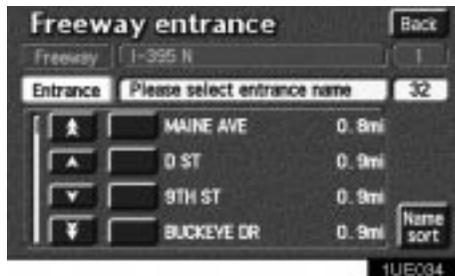
Touch the  of the desired entrance or exit name. The screen changes and displays the map location of the selected destination and the route preference. (See “(a) Entering Destination” on page 25.)

## Destination Input by Freeway Entrance or Exit

---

There are 2 ways to list the freeway entrance or exit.

**Dist. sort:** Touch this switch to list the entrances or exits in order of distance from your current location.



**Name sort:** Touch this switch to list the entrances or exits in alphabetical order.



## **Destination Input by Previous Starting Point**

---

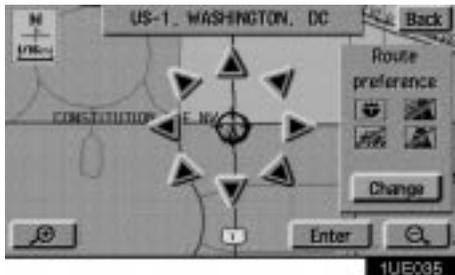
Touch the **“Previous starting point”** switch on the Destination screen.

The screen changes and displays the map location of the previous starting point and the route preference. (See **“(a) Entering Destination”** on page 25.)

If you have not used the navigation yet, the **“Previous starting point”** switch is dimmed.

## Destination Input by Map

Touch the **“Map”** switch on the Destination screen.

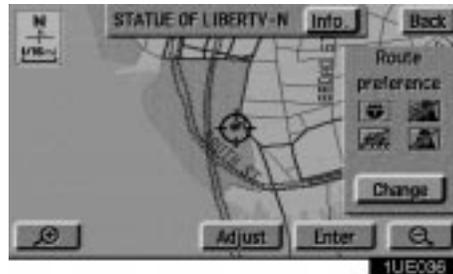


The screen changes and displays the map location that is previously displayed just before the destination input operation and the route preference. (See **“(a) Entering Destination”** on page 25.)

## Setting and Deleting Destination

### (a) Entering destination

After you input the destination, the screen changes and displays the map location of the selected destination and the route preference.



You can move and set the cursor  at a desired point. (For the method of how to move the cursor, see page 4.)

When you touch the **“Enter”** switch, the system starts searching for a route to your destination using the conditions entered.

#### Route preference

Touch the **“Change”** switch to change the conditions which are to determine the route to your destination.

You are given a number of choices on the conditions which the system uses to determine the route to your destination.



Touch the **“Detour”** switch of **“Freeway”** to search for a route other than freeways as much as possible. (In some cases, the route cannot avoid running on a freeway.)

Touch the **“Detour”** switch of **“Toll road”** to search for a route other than toll roads as much as possible.

Touch the **“Detour”** switch of **“Ferry”** to search for a route without using a ferry as much as possible.

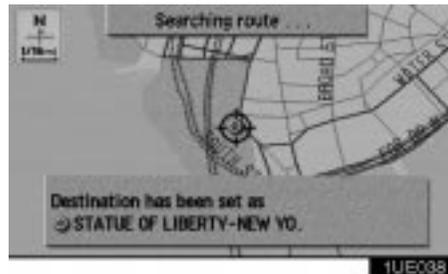


## Setting and Deleting Destination

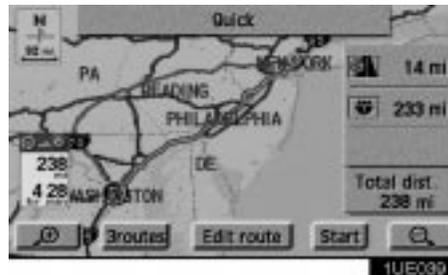
Touch the **“Detour”** switch of **“Restricted road”** to search for a route other than restricted road.

Touching the **“Allow”** switch on each item allows you to use it.

The switches you select are highlighted in green. After choosing conditions, touch the **“OK”** switch.



The system starts searching for a route to your destination.



If you want to see the other routes and make a comparison, touch the **“3 routes”** switch. Three types of the routes are displayed on the screen.

**Quick:** A route on which you can reach the destination in the shortest time  
This route is shown as an orange line.

**Short:** A route on which you can reach the destination in the shortest distance  
This route is shown as a purple line.

**Alternative:** Other route  
This route is shown as a green line.

Touch the switch to select the route.

If you want to add a destination, see the following **“(b) Adding destination”**.

After selecting one, you can start the route guidance by touching the **“Start”** switch or starting to move your vehicle.

If you want to change the search condition, touch the **“Edit. route”** switch. The screen changes and displays the Edit route screen. (For details, see page 33.)

When you keep touching the **“Start”** switch until you hear a beep, Demo mode will start.

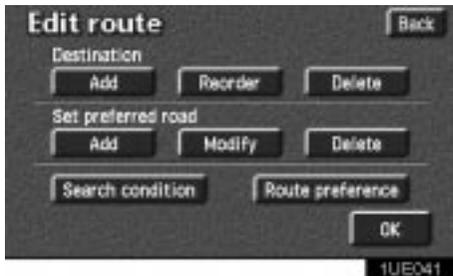
## Setting and Deleting Destination

### (b) Adding destinations

1. Push the “MENU” button to display the Menu screen.

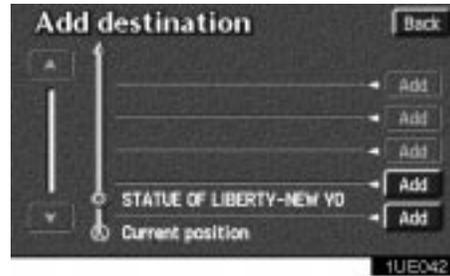


2. Touch the “Edit route” switch.



3. Touch the “Add” switch of Destination.

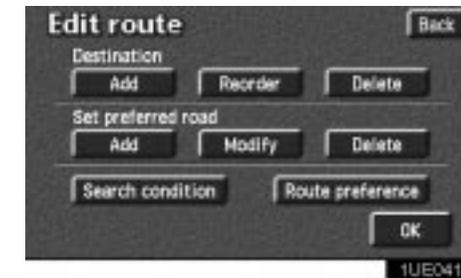
4. Input an additional destination in the same way as the destination input. (See page 25.)



5. The Add destination screen appears. Touch the “Add” switch that you want to add a destination.

### (c) Reordering destinations

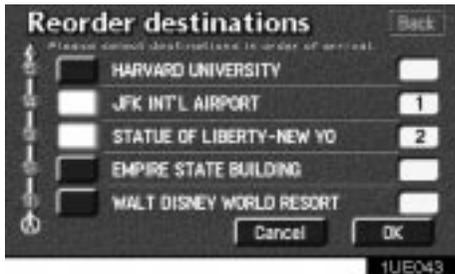
1. Push the “MENU” button to display the Menu screen and touch the “Edit route” switch.



2. Touch the “Reorder” switch of Destination.



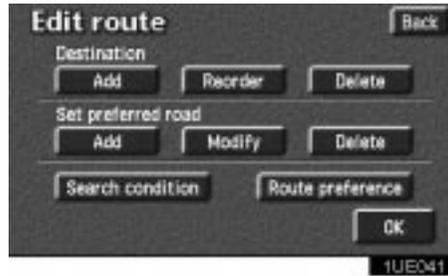
## Setting and Deleting Destination



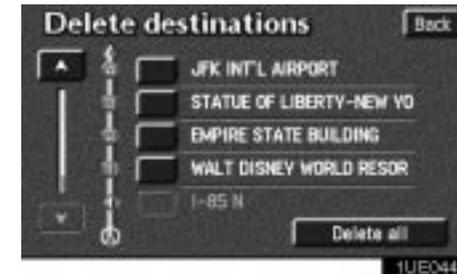
3. Select the destinations in the order of arrival by touching the  switch.

After you finished selecting the destinations, touch the **“OK”** switch. The previous screen returns.

### (d) Deleting destination



1. Touch the **“Delete”** switch of Destination.



2. Touch the  switch of destination where you want to delete. Touch the **“Delete all”** switch if you want to delete all destinations.

3. The message appears to confirm your request to delete. To delete the point(s), touch the **“Yes”** switch.

If you touch the **“Yes”** switch, the data cannot be recovered.

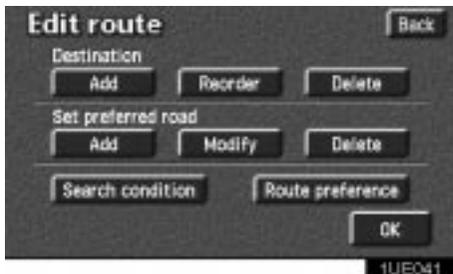
If you touch the **“No”** switch. The previous screen will return.

## Setting and Deleting Preferred Road

### (a) Adding a preferred road



Touch the “Edit route” switch on the Menu screen.



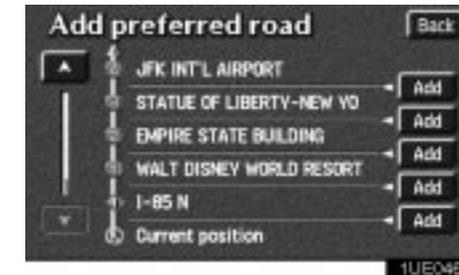
Touch the “Add” switch of Set preferred road. The following screen appears.



Move the cursor  to your desired location and touch the “Preferred road” switch.

Messages appear to confirm your request on the screen. Touch the “Enter” switch to register the road.

Touch the “Next” switch when you change the road.

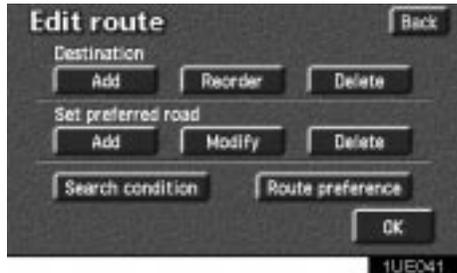


The Add preferred road screen appears. Touch the “Add” switch where you want to add a preferred road.

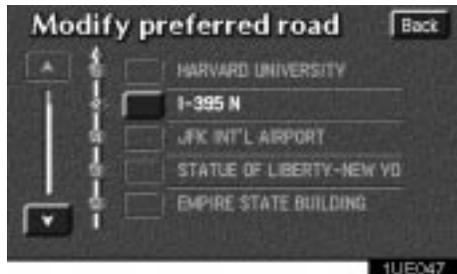


## Setting and Deleting Preferred Road

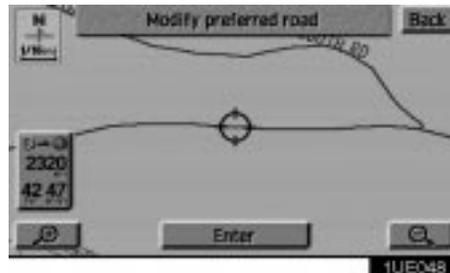
### (b) Modifying a preferred road



Touch the **“Modify”** switch of Set preferred road. The modify preferred road screen appears.



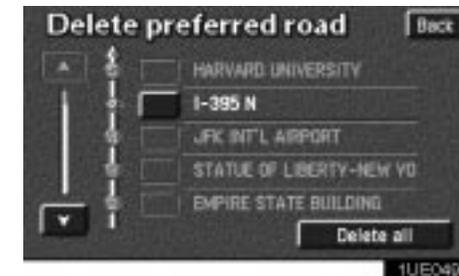
Select the preferred road which you want to modify and touch the **“Delete”** switch.



Do the same procedure as adding a preferred road (see page 29).

### (c) Deleting a preferred road

1. Touch the **“Delete”** switch of Set preferred road. The Delete preferred road screen appears.



2. Select the preferred road which you want to delete. Touch the **“Delete all”** switch if you want to delete all preferred road.

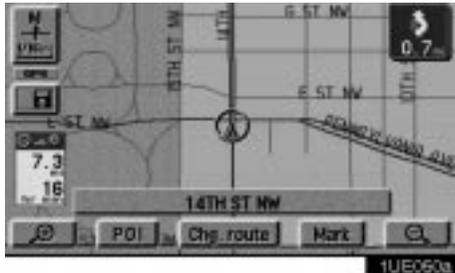
3. Messages appear to confirm your request to delete the preferred road. To delete the point(s), touch the **“Yes”** switch.

If you touch the **“Yes”** switch, the data cannot be recovered.

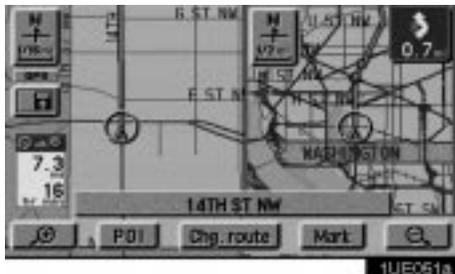
If you want to try again or cancel deletion, touch the **“No”** switch. The previous screen will return.

## Route Guidance Screen

The route guidance system displays two different screen modes.



**Single map:** Map is shown in a screen.



**Dual map:** Two different maps are shown in a screen.



**Split screen:** Map and guidance screen are shown in a screen mode. (For detail about Guidance screen, see page 48.)

**The two route guidance screens have a number of indicators and switches with which you should be familiar.**



**Map/guidance:**

To change the screen mode.



Upon reception of signals from the GPS (Global Positioning System), this mark appears. (For details, see page 53.)



These switches magnify or reduce the map scale. (For details, see page 50.)



Touch this switch, and icons of points of interest are shown on the screen. (For details, see page 46.)



Touch this switch for one-touch registration of the marked point. (For details, see page 75.)

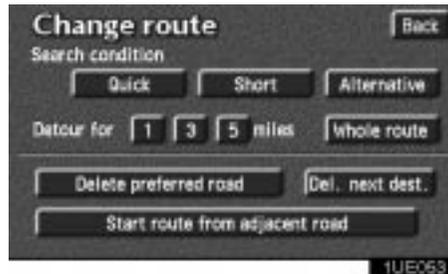


## Route Guidance Screen

### INFORMATION

- *The distance to your destination appears on the left of the screen.*
- *The time to your destination can also be displayed. (For the setting steps, see page 86.)*

 The Change route screen appears and the following settings are available.



**Search condition:** To change the condition for Reroute.

**Detour:** To change the condition for Detour. (For details, see page 45.)

**Del. next dest.:** To delete and skip the next destination.

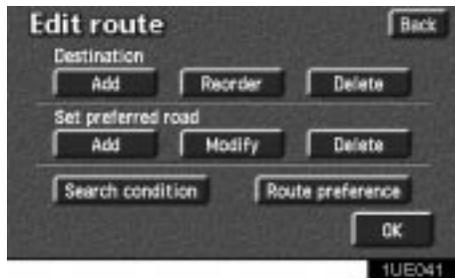
### INFORMATION

*If the calculated route includes a trip by ferry, the route guidance shows a sea route. After you travel by ferry, the current vehicle position may be incorrect. Upon reception of GPS signals, it is automatically corrected.*

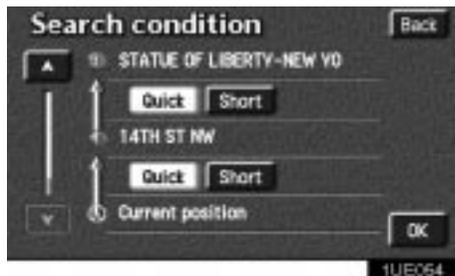
## Route Guidance Screen

### Search condition

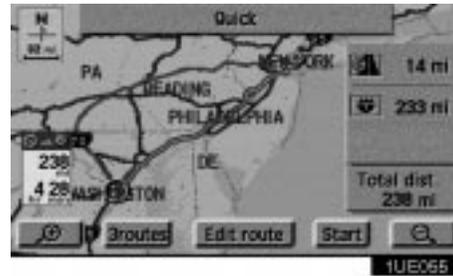
Push the “MENU” button to display the Menu screen and touch the “Edit route” switch.



Touch the “Search condition” switch. The search condition screen appears.



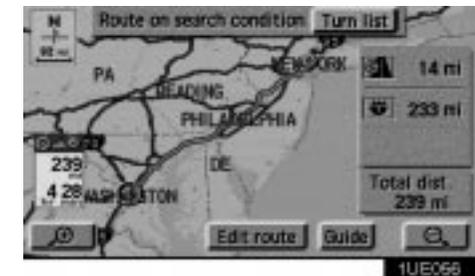
Touch the “Quick” or “Short” switch and then the “OK” switch.



### Route overview



Touch the “Route overview” switch on the Menu screen.



The entire route from the starting point to the destination is displayed.



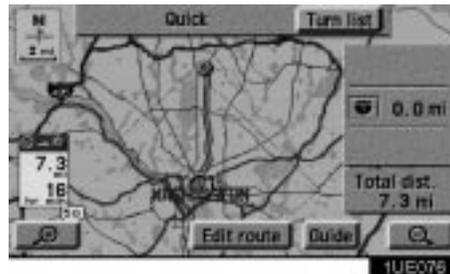
## Route Guidance Screen

### Turn list

You can change from the Map screen to a Turn list screen that displays the list of the roads up to your destination. This list can be used for a route guidance.



1. Push the “MENU” button to display the Menu screen and touch the “Route overview” switch.



2. The screen will change to the Entire route map screen where you can touch the “Turn list” switch.



You can scroll through the list of roads by touching  or  switch. However, not all road names in the route may appear on the list. If a road changes its name without requiring a turn (such as on a street that runs through two or more cities), the name change will not appear on the list. The street name closest to the starting point will be displayed with the distance to the next turn.



These marks indicate the direction which you should turn at an intersection.



## Route Guidance Screen

Touch the “Map” switch of your desired point. The point which you choose is displayed on the Map screen.

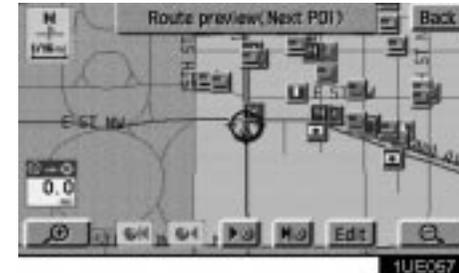


### INFORMATION

- *The current vehicle position mark appears at the bottom of the screen next to the name of the street you are driving on. The mark does not move.*
- *If you leave the guidance route, the name of the street you are on is not shown on the list next to the current vehicle position mark.*
- *If the road type you are on changes between a highway, a main street or a residential street (at an interchange or fork), it will appear on the turn list.*
- *If a long route has been selected, it may take a long time to display the turn list.*
- *Push the “MAP/VOICE” button to return to the map display with a route guidance.*

## Route Preview

Touch the “Route preview” switch on the Menu screen. The route preview screen appears.



To indicate the next destination or selected POI



To preview the route to the next destination or selected POI



To preview the route to the next destination in fast-forward mode



To stop the preview



To review the route to the current position

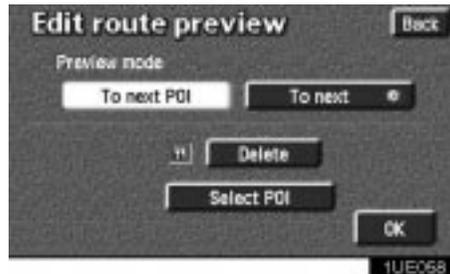
## Route Preview



To review the route to the current position in fast-forward mode



To indicate the current position



Touch the “Edit” switch, the Edit route preview screen appears.

**To next POI:** Preview the Next POI

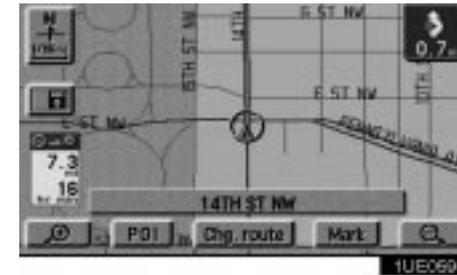
**To next** : Preview the Next destination

**Delete:** To delete the POI icon.

**Select POI:** To select the POI icon.

Touch the “OK” switch after the selection.

## Current Position Display



The current vehicle position mark appears in the center of the map screen. You can return to this map screen showing your current position at any time from any screen by pushing the “MAP/VOICE” button.

During driving, the current vehicle position mark is fixed in the center of the screen and the map moves.

If you move the map with a “one-touch” scroll (see page 51 for details), the current vehicle position mark continues to track your current location.

## Current Position Display

### INFORMATION

*When you use the “one-touch” scroll feature, the current vehicle position mark may disappear from the screen. Move the map with a “one-touch” scroll again or push the “MAP/VOICE” button to return to the current vehicle position map location display.*

The current position is automatically set as your vehicle receives signals from the GPS (Global Positioning System). If your current position is not correct, it is automatically corrected after your vehicle receives signals from the GPS.

### INFORMATION

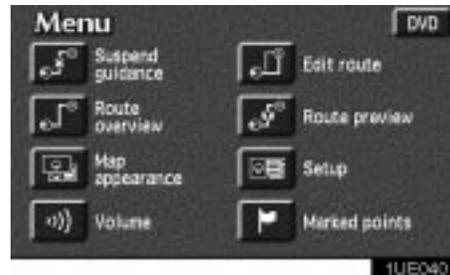
*After the battery disconnection, or on a new vehicle, the current position may not be correct. As soon as the system receives signals from the GPS, the correct current position is displayed.*

If you must correct the current position manually, follow the steps on page 80.

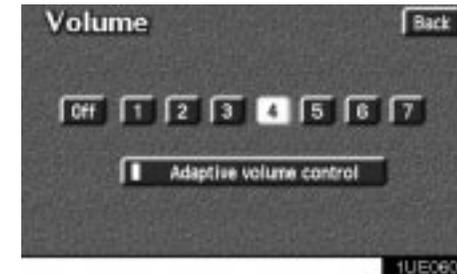
## Voice Guidance

Voice guidance is offered automatically during route guidance. Use voice guidance just for your reference.

You can adjust the volume of the voice or turn off voice guidance.



Push the “MENU” button to display the Menu screen. Then touch the “Volume” switch on the Menu screen.



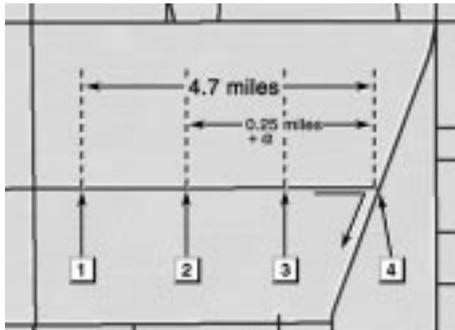
Touch any number to select the desired volume. Touching the “Off” switch turns the voice route guidance off. If you turn the “Adaptive volume control” on, the volume is turned up automatically when the vehicle speed exceeds 80 km/h (50 mph).

### INFORMATION

*During route guidance, the voice route guidance continues even if the navigation screen is changed to the other screens, such as the audio screen.*



## Typical Voice Guidance Prompts

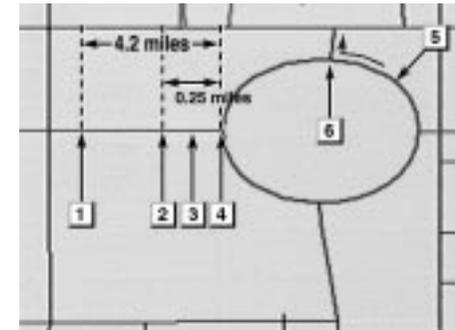


The voice guidance provides various messages as you approach an intersection, or other point where you need to maneuver the vehicle.

- 1 "Proceed about 5 miles"
- 2 "In a quarter of a mile, right turn"
- 3 "Right turn."
- 4 (Beep sound only)

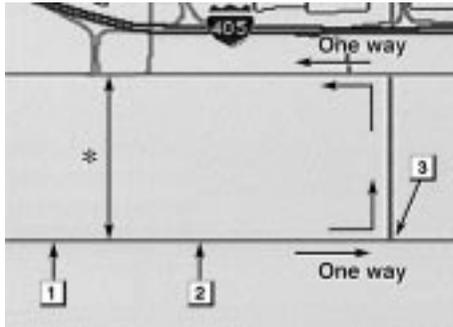
### INFORMATION

*On freeways, interstates or other highways with higher speed limits, the voice guidance will be made at earlier points than on city streets in order to allow time to maneuver.*



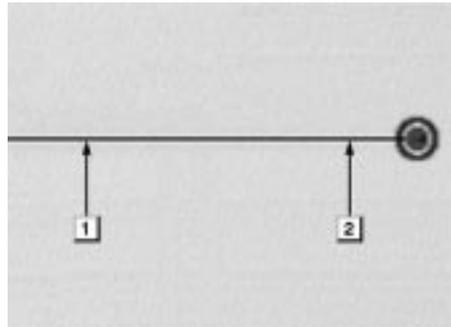
- 1 "Proceed about 4 miles to the traffic circle."
- 2 "In a quarter of a mile, traffic circle ahead, and then 3rd exit."
- 3 "The 3rd exit ahead."
- 4 (Beep sound only)
- 5 "The exit ahead."
- 6 (Beep sound only)

## Typical Voice Guidance Prompts



\*: The system indicates a U-turn if the distance between two one-way roads (of opposite directions) is less than 15 m (50 ft.) in residential areas or 50 m (164 ft.) in non-residential areas.

- 1  "In half of a mile, make a legal U-turn."
- 2  "Make a legal U-turn ahead."
- 3  (Beep sound only)



The system announces your approach to the final destination.

- 1  "Your destination is ahead."
- 2  "You have arrived at your destination. The route guidance is now finished."

### INFORMATION

- If the system cannot determine the current vehicle position correctly (in cases of poor GPS signal reception), the voice guidance may be made early or delayed.
- If you did not hear the voice guidance command, push the "MAP/VOICE" button to hear it.

## Registering Your Home

If you register your home address beforehand, you can easily set the route back to your home.



1. Push the “MENU” button to display the Menu screen and touch the “Marked points” switch.



2. Touch the “Reg. home” switch of Marked points screen for registering your home.

If your home is registered, the “Delete home” switch will be shown.



You may register the location of your home by some different methods: current position, address, map location, etc. Touch the screen to select your desired method from the menu.

Input your home in the same way as the destination input. (See page 25.)

## Registering Your Home

### Deleting your home



1. Push the “MENU” button to display the Menu screen and touch the “Marked points” switch.



2. Touch the “Delete home” switch of “Marked points” screen.



The screen changes and displays the map location of home and a message. If you are sure that you want to delete the point, touch the “Yes” switch. If not, touch the “No” switch.



## Registering Preset Destinations

You can register up to 5 preset destinations

1. Push the “MENU” button to display the Menu screen and touch the “Marked points” switch.



2. Touch the “Register” switch of Preset destinations ①~⑤.



3. Touch any of the  switches for which you want to register the preset destination.

If you have already registered the preset destination, you can overwrite on the present registered destination.



4. Input the preset destination in the same way as the destination input. (See page 25.)

## Registering Preset Destinations

### Editing preset destinations

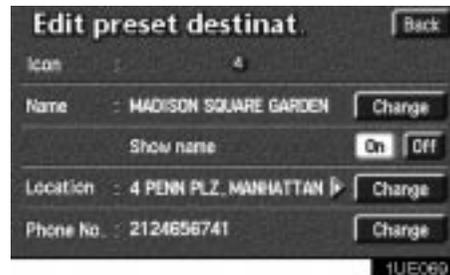
1. Push the “MENU” button to display the Menu screen and touch the “Marked points” switch.



2. Touch the “Edit” switch of Preset destinations ①~⑤.



3. Select the preset destination that you want to edit and touch the  switch.

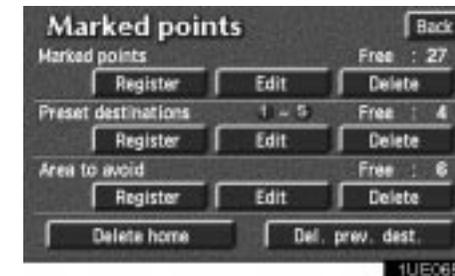


You can change the name, location and phone number of the preset destination.

Touch the “Change” switch. (See page 72.)

### Deleting the preset destinations

1. Push the “MENU” button to display the Menu screen and touch the “Marked points” switch.



2. Touch the “Delete” switch of Preset destinations ①~⑤.



## Registering Preset Destinations

---



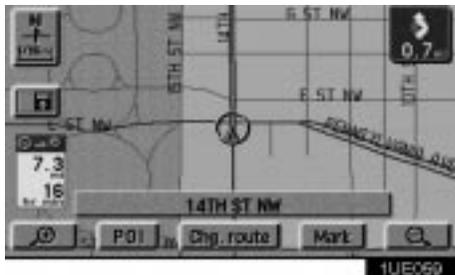
3. Select the preset destination that you want to delete and touch the  switch.

If you want to delete all the preset destinations, touch the "Delete all" switch.

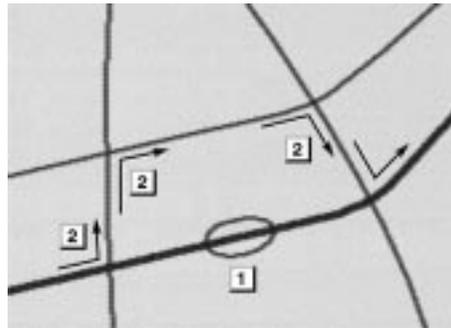
Messages appear depending on the type of deletion. If you want to delete, touch the "Yes" switch. To cancel the deletion, touch the "No" switch.

## Detour Setting

When you are driving while the route guidance is operating, you can change the route to detour around a section of the route where a delay is caused by road repairs, an accident, etc.



Touch the “Chg. route” switch if you encounter a reason to divert from the selected route.



This picture shows an example of how the system would route you around a delay caused by a traffic jam.

- 1 This part indicates the location where traffic jam is occurring due to road repairs or an accident.
- 2 Detour route suggested by the system



When you touch the “Chg. route” switch, the screen changes to a change route screen that allows you to select the distance you want to detour. Touch one of the numeral keys to start the detour process. After detouring, the system returns to the original guidance route.

**Whole route:** If you touch this switch, the system will calculate an entire new route to the destination.



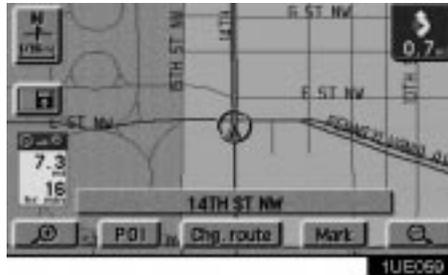
## Detour Setting

### INFORMATION

- *When your vehicle is on a freeway, the detour distance selections are 5, 15, and 25 miles.*
- *The system may not be able to calculate a detour route depending on the selected distance and surrounding road conditions.*

## Displaying POI

Points of interest such as gas stations and restaurants can be displayed on the Map screen. You can also set their location as a destination and use them for route guidance.

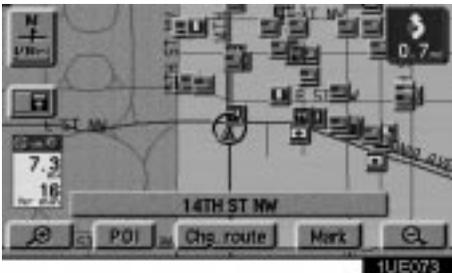


To display a particular type of point of interest on the screen, touch the “POI” switch on the Map screen.



## Displaying POI

A window with a limited choice of points of interest will be displayed. When you touch your desired type of point of interest, icons will appear on the Map screen indicating where the POI addresses are located.



**More:** If you cannot find your desired point of interest on the limited choice screen, touch this switch. The screen then displays the complete POI listing screen. You can display up to 5 categories of icons on the screen.



When you select a point of interest type from either the limited list or the complete list, the screen will display icons at those locations on the Map screen.

Touching the **“Delete”** switch will delete the last selected icon.

**Local POI list:** If you want to search the nearest point of interest, touch this switch. Then choose one of the categories. The system will list the points within 20 miles (32 km).

You can sort the local POI list by three different ways as follows.

**Icon:** In the order of the POI icons

**Dist.:** In the order of distance from your current location.

**Name:** In alphabetical order

By turning the **“Route”** switch on, you can search the POI on the route when in the route guidance mode.

Touch the  of your desired point of interest. Points of interest which you chose are displayed on the Map screen.

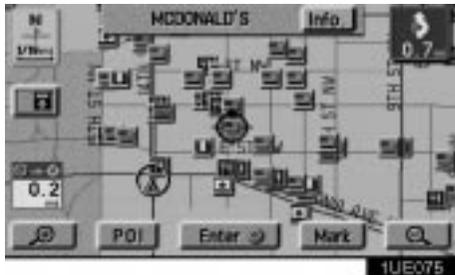
**To turn off the icons of the points of interest on the Map screen, touch the “POI off” switch.**



## Displaying POI

### Setting a POI as a destination

You can select one of the points of interest icons on the Map screen as a destination and use it for a route guidance.



Directly touch the icon of the point of interest that you want to set as a destination.

The map will shift so the icon is centered in the screen and overlaps with the cursor. At this time, the distance from your current position will be displayed on the screen. The distance shown is as measured in a straight line from the current vehicle position to the POI.

The name of the point of interest and the “Info.” switch on the screen are displayed at the top of the screen. When you touch the “Info.” switch on the screen, the information such as the name and address, etc. are displayed.

When your desired point of interest overlaps with the cursor, touch the “Enter” switch. The screen changes and displays the map location of the selected destination and the route preference. (See “(a) Entering Destination” on page 25.)

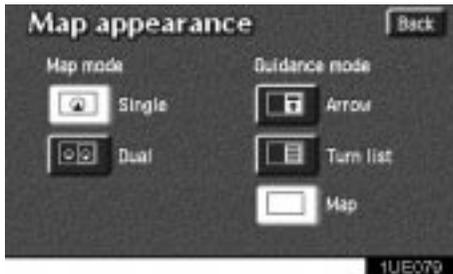
## Map Appearance

You can select the single screen map or the dual screen map and you can change the half of the screen to the Guidance screen by touching the Map/Guidance switch while the Map screen is displayed. You can choose one of two types of guidance screen.



1. Push the “MENU” button to display the Menu screen and touch the “Map appearance” switch.

## Map Appearance



2. The screen will change to the Map appearance screen and you can select the Map mode and Guidance mode.

### Map mode



To display single map screen



To display dual map screen

### Guidance mode



To display arrow screen

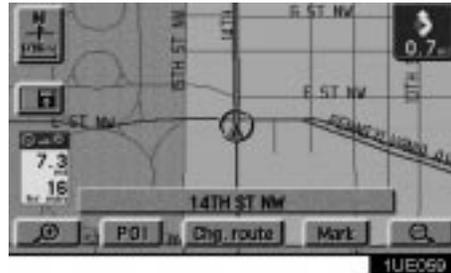


To display turn list screen



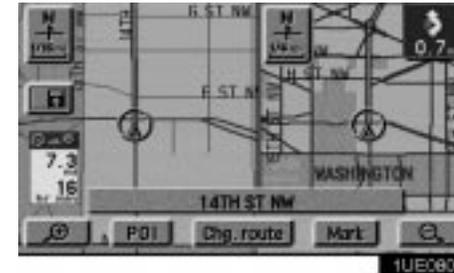
To display map screen

### Single map



This screen shows the single map.

### Dual map



This screen shows the dual map. The map on the left side is the main map. You can change the scale of the right side map by touching it. The screen turns into the edit mode. You can also select to show POI icons on the right side map.



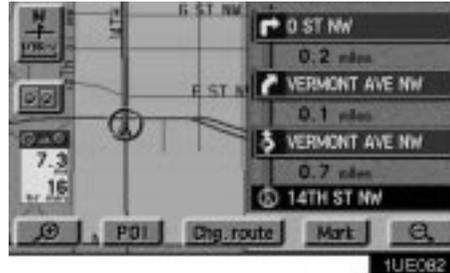
## Map Appearance

### Arrow screen



This screen shows the current road name and the distance to the next corner.

### Turn list screen



This screen shows the turn list. You cannot scroll through the list of roads.

## Map Scale



Touch  switch or  switch to change the scale of the map display. The scale bar and indicator at the bottom of the screen indicates the map scale menu. The scale runs from 1/32nd of a mile to 128 miles. Touch  switch or  switch until the scale bar changes normally. If you continue to hold your finger on the switch, the scale bar changes smoothly.

You can change the scale of the map display by touching the scale bar directly. It is not available during driving.

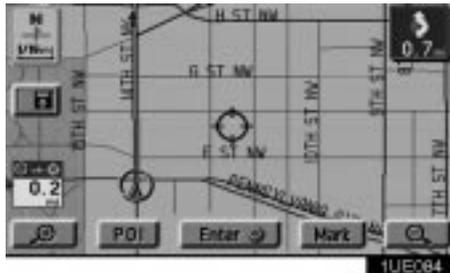
The map scale is displayed under the North-up symbol or Heading-up symbol at the top left of the screen.

## Map Scale

### INFORMATION

*When the map scale is at the maximum range of 128 miles,  will disappear. When the map scale is at the minimum range of 1/32nd mile,  will disappear.*

## Screen Scrolling



If you wish to look at a different point on the map other than your current vehicle position, you can bring the desired point to the center of the screen by using the scroll feature.

Touch any point on the screen, and that point moves to the center of the screen and is shown by the cursor mark . You can then set this place as a destination. Touch the “**Enter** ” switch on the screen.

If a destination is already registered, you can add a destination.

If you continue to hold your finger on the screen, the map will continue scrolling in that direction until you lift your finger.

If you touch switches like “**Mark**”, “**POI**”, etc., the screen does not scroll and the respective functions operate.

After scrolling the screen, the map remains centered at the selected location until you activate another function. The current vehicle position mark will continue to move along your actual route and may move off the screen. When you push the “**MAP/VOICE**” button, the current vehicle position mark returns to the center of the screen and the map moves as you proceed on your route.

### INFORMATION

*If you enter a destination using the screen scrolling function, the road nearest to the point you touched is set as the destination.*

## Orientation of the Map

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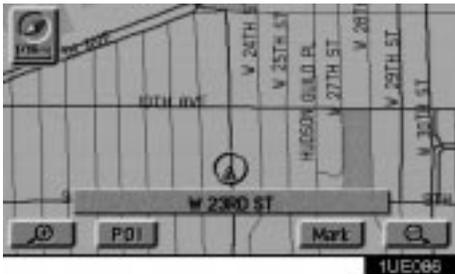


You can change the orientation of the map from North-up to Heading-up by touching the direction symbol at the top left of the screen.



**North-up symbol**

Regardless of the direction of vehicle travel, North is always up.



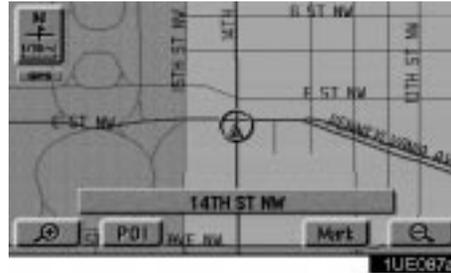
**Heading-up symbol**

The direction of the vehicle travel is always up. A red arrow indicates North.

## Limitations of the Navigation System

**This navigation system calculates the current vehicle position using satellite signals, various vehicle signals, map data, etc. However, the accurate position may not be shown depending on the satellite condition, road configuration, vehicle condition or other circumstances.**

The Global Positioning System (GPS) developed and operated by the U.S. Department of Defense provides an accurate current vehicle position using 3 to 4 satellites. The GPS system has a certain level of inaccuracy built in for security reasons. While the navigation system will compensate for this most of the time, occasional positioning errors up to 300 feet can and should be expected. Generally, position errors will be corrected within a few seconds.



When your vehicle is receiving signals from the satellites, the “GPS” mark appears at the top left of the screen.

The GPS signal may be physically obstructed, leading to inaccurate vehicle position on the map display. Tunnels, tall buildings, trucks, or even the placement of objects on the instrument panel may obstruct the GPS signals.

The installation of window tinting may also obstruct the GPS signals. Most window tinting contains some metallic content that will interfere with the GPS signal reception. We recommend not to use the window tinting on vehicles equipped with navigation systems.

The GPS satellites may not send signals due to repairs or improvements being made to them.

Even when the navigation system is receiving good GPS signals, the vehicle position may not be shown accurately or inappropriate route guidance may occur in some cases.

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## Limitations of the Navigation System

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### (a) Accurate current vehicle position may not be shown in the following cases:

- When driving on a small angled Y-shaped road.
- When driving on a spiral road.
- When driving on a slippery road such as in sand, gravel, snow, etc.
- When driving on a long straight road.
- When freeway and surface streets run in parallel.
- After moving by ferry or vehicle carrier.
- When a long route is searched during high speed driving.
- When driving without setting the current position calibration correctly.
- After repeating a change of directions by going forward and backward, or turning on a turntable in the parking lot.
- When leaving a covered parking lot or parking garage.
- When a roof carrier is installed.
- When driving with the tire chains installed.
- When the tires are worn.

- After replacing a tire or tires.
- When using tires that are smaller or larger than the factory specifications.
- When the tire pressure in any of the four tires is not correct.

### INFORMATION

*If your vehicle cannot receive GPS signals, you can correct the current position manually. For the information on setting the current position calibration, see page 80.*

### (b) Inappropriate route guidance may occur in the following cases:

- When turning at a wrong intersection off the designated route guidance
- If you set more than one destination, auto reroute will display a route returning to the destination on the previous route when you try to skip any of the destinations.
- When turning at an intersection, there is no route guidance.
- When passing through the intersection, there is no route guidance.
- During automatic rerouting, the route guidance may not be available for the next turn to the right or left.
- It may take a long time to operate auto reroute during high speed driving. In auto reroute, a detour route may be shown.
- After auto reroute, the route may not be changed.
- An unnecessary U-turn may be shown or announced.
- A location may have multiple names and the system will announce one or more.

## Limitations of the Navigation System

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- Some routes may not be searched.
- If the route to your destination includes gravel, unpaved roads or alleys, the route guidance may not be shown.
- Your destination point might be shown on the opposite side of the street.
- When a portion of the route has regulations prohibiting the entry of the vehicle that vary by time or season or other reason.
- The road and map data stored in your navigation system may not be complete or may not be the latest release.

**When replacing the tire(s), do the calibration. See page 80 for detailed information.**

## Map Database Information and Updates

This system uses the maps of DENSO based on NAVTECH maps, GDT maps and infoUSA POIs.

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©GDT, Geographic Data Technology, Inc.

Data by infoUSA Copyright ©2002, All rights reserved.

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There are two types of areas available for route guidance. (See the following pages.) In one type of area, primarily around metropolitan centers, detailed route guidance is available for the entire area. In the other type of area, all roads are displayed on the map but route guidance is limited. The navigation route might lack precision because the data (no right turns, one-way traffic, etc.) is not complete. It is still possible to reach the destination by following the arrow direction and distance as shown on the bottom left of the screen. The arrow points in the direction of the destination. The distance shown is as measured in a straight line from the current vehicle position to the destination area.

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In order to provide you with accurate map information as much as possible, we are always gathering information such as road repairs and doing site investigation. However, the names of roads, streets, facilities, and their locations are often changed. In some places, construction on roads may be in progress. For that reason, information on some areas in this system might be different from the actual location.

The map database is normally updated once a year. Contact your Lexus dealer for information about the availability and pricing of an update.

## Map Database Information and Updates

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**DVD:** To determine which version of the database is currently in your vehicle, touch the “**DVD**” switch on the Menu screen. It displays the map database version.

### ROUTE GUIDANCE AVAILABILITY

**Route guidance available area for detailed roads and for main roads are provided.**

The software covers the route guidance available area as shown in the following “Route guidance availability” illustrations.

Route guidance available areas may change due to the upgrading of the map data.



## Map Database Information and Updates

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Route guidance availability



2002 by NAVTECH

-  Route guidance available areas
-  Route guidance available for main roads only

## Map Database Information and Updates

---

### Route guidance availability



2002 by NAVTECH

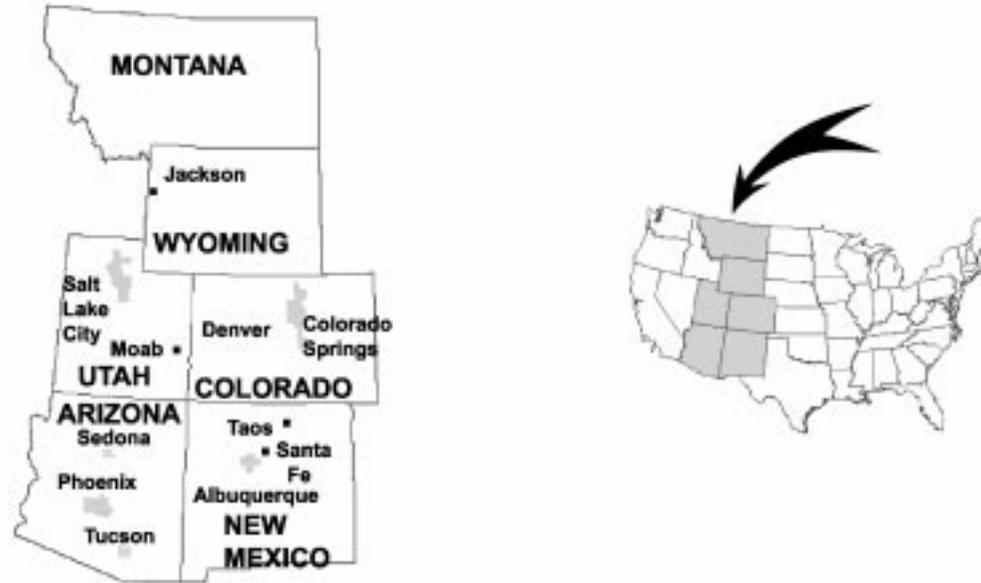
-  Route guidance available areas
-  Route guidance available for main roads only

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## Map Database Information and Updates

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Route guidance availability



2002 by NAVTECH

-  Route guidance available areas
-  Route guidance available for main roads only

## Map Database Information and Updates

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Route guidance availability



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2002 by NAVTECH

-  Route guidance available areas
-  Route guidance available for main roads only

## Map Database Information and Updates

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### Route guidance availability



2002 by NAVTECH

-  Route guidance available areas
-  Route guidance available for main roads only

## Map Database Information and Updates

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Route guidance availability



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2002 by NAVTECH

-  Route guidance available areas
-  Route guidance available for main roads only

## Map Database Information and Updates

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Route guidance availability



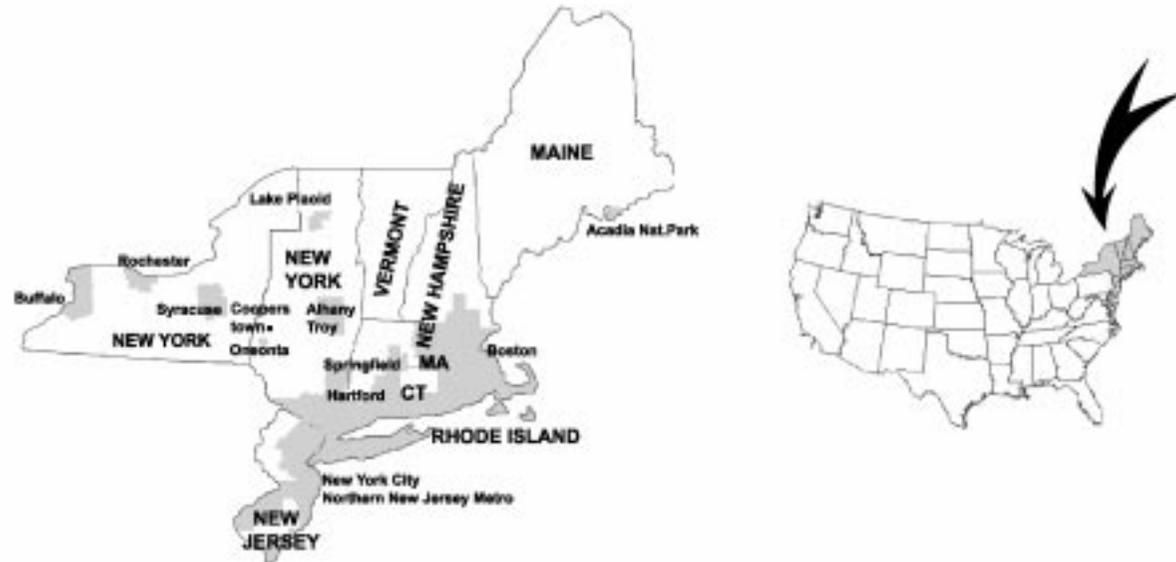
2002 by NAVTECH

-  Route guidance available areas
-  Route guidance available for main roads only

## Map Database Information and Updates

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### Route guidance availability



2002 by NAVTECH

-  Route guidance available areas
-  Route guidance available for main roads only

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## Map Database Information and Updates

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### Route guidance availability



2002 by NAVTECH

-  Route guidance available areas
-  Route guidance available for main roads only

## Map Database Information and Updates

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Route guidance availability



2002 by NAVTECH

-  Route guidance available areas
-  Route guidance available for main roads only

I

## Map Database Information and Updates

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### Route guidance availability



2002 by NAVTECH

-  Route guidance available areas
-  Route guidance available for main roads only

# ***SECTION II***

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## **ADVANCED FUNCTIONS**

**Descriptions of operations for more effective use**

Marked points ..... 70  
Area to avoid ..... 77  
Current position calibration ..... 80



## Marked Points

You can register and keep your own marked points of interest list (like restaurants, sports facilities, etc.) and use the marked points to input a destination.

### (a) Registering marked points



1. Push the “MENU” button to display the Menu screen and touch the “Marked points” switch.



2. Touch the “Register” switch of the Marked points.



A screen similar to that for destination input appears. Input the address of the marked point in the same way as any destination input. See page 9 through 25.

## Marked Points

When you finish registration of the marked point, the Register marked point screen appears.



3. Touch your desired icon. You can turn the pages by touching the “Page 1” or “Page 2” switch. Touching the “With sound” switch, you can select your desired sound. (For details, see page 72.)

### **INFORMATION**

*Up to 100 marked points can be registered.*

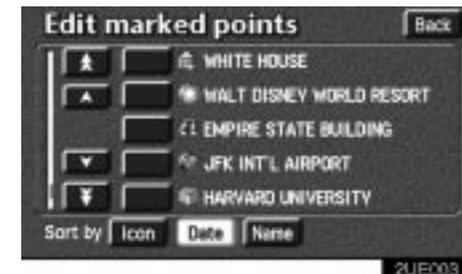
### (b) Editing marked points

Once a marked point is registered, you can edit the icon, name or telephone number.

1. Push the “MENU” button to display the Menu screen and touch the “Marked points” switch.



2. Touch the “Edit” switch of Marked points.



The screen lists the marked points.

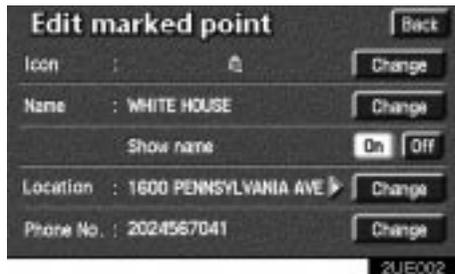
**Sort by Icon:** Touch this switch to list the marked points in order of the category of icon.

**Sort by Date:** Touch this switch to list the marked points in order of the registered date.

**Sort by Name:** Touch this switch to list the marked points in alphabetical order.

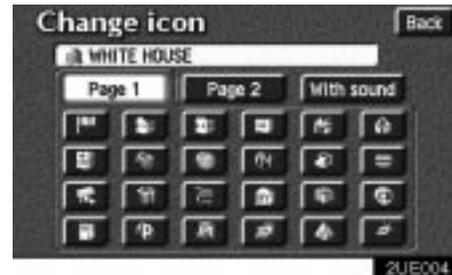
Touch  of the desired marked point to display the Edit marked point screen.

## Marked Points



Touch the item to edit (on the right side of the screen).

### • Changing the “Icon”



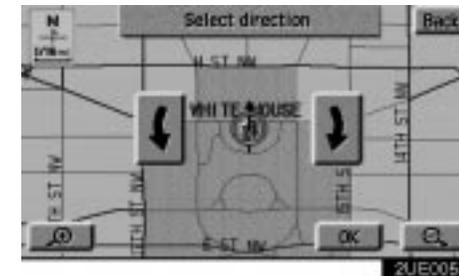
Touch your desired icon.

**Page 1 and page 2:** You can select one of 46 icons.

When you touch the desired icon, **“Back”** or complete the direction setting, the previous screen is displayed.

**With sound:** When your vehicle approaches the marked point, the sound which you chose will sound.

The next screen appears when you select the **“Bell (with direction)”** switch.



Touch the direction switches and adjust the direction. Touch the **“OK”** switch. The bell sounds when your vehicle approaches this point in the direction that you set.

When you touch the desired icon, **“Back”** or complete the direction setting, the previous screen is displayed.

## Marked Points

- Changing the “Name”



Touch alphabet or numeral keys directly to input the name.

After you finish your entry, touch the “OK” switch.

The previous screen will be displayed. If you touch the “Off” switch of show name, the name of this marked point is not shown on the map.

- Changing the “Phone number”

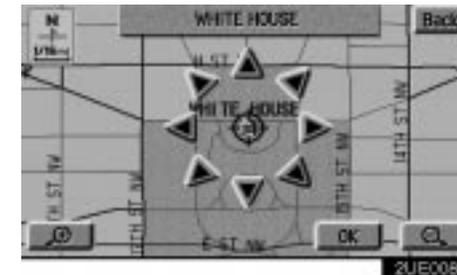


Touch numeral keys directly.

After you finish your entry, touch the “OK” switch.

The previous screen will be displayed.

- Changing the “Location”



Touch the arrows to scroll to your desired point on the Map screen.

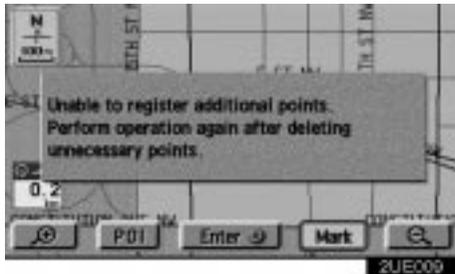
Touch the “OK” switch when the cursor  $\odot$  moves to your desired point.

The previous screen will return.

After you finish any editing, touch the “Back” switch on the first screen of Edit marked points.

## Marked Points

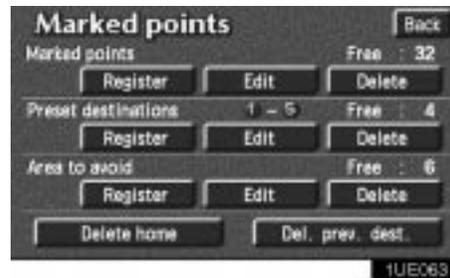
You can register up to 100 marked points. If you attempt to register more than 100, a message appears for confirmation.



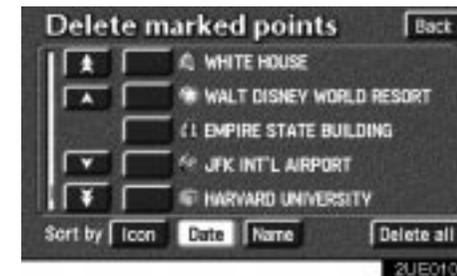
If you want to register a new point, delete one of the marked points. See "(c) Deleting marked points".

### (c) Deleting marked points

1. Push the "MENU" button to display the Menu screen and touch the "Marked points" switch.



2. Touch the "Delete" switch of the marked points.



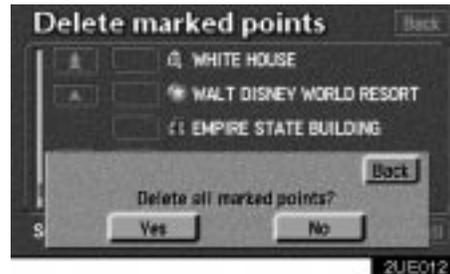
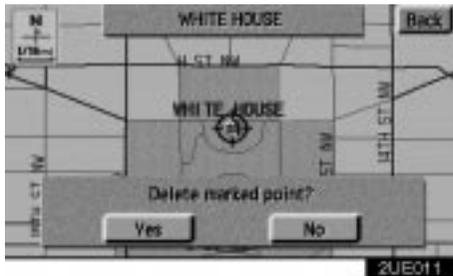
3. Touch  of the marked point to delete.

## Marked Points

The screen for confirmation will appear with the map of the marked point. If you want to delete, touch “Yes”. Touching “No” or “Back” will return to the previous screen.

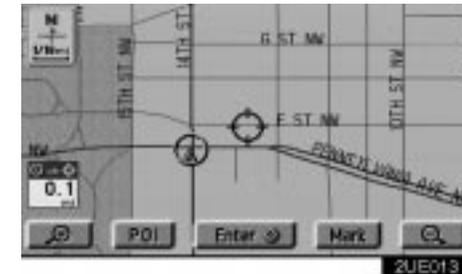
If you want to delete all of the marked points, touch the “Delete all” switch. The screen for confirmation will appear. Touching “Yes” will delete all of the marked points. Touching “No” or “Back” will return to the previous screen.

To delete only specified marked points, use the “Icon”, “Date” or “Name” switch to display the screen, so that you can easily find the marked points.



Either of the above messages appears depending on the type of deletion. If you want to delete, touch the “Yes” switch. To cancel the deletion, touch the “No” or “Back” switch.

## (d) One-touch marked point registration

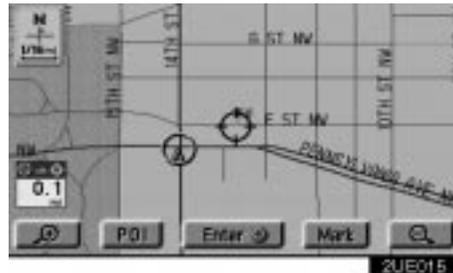


You can register your current position or any points (See “Screen Scrolling” on page 51.) from the Map screen by touching the “Mark” switch.

## Marked Points



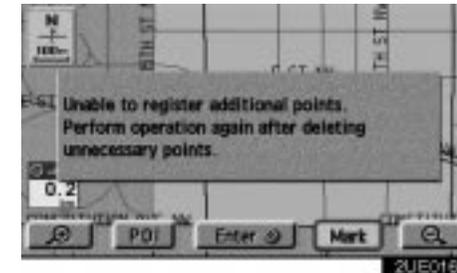
When you touch the **“Mark”** switch, the above screen appears for a few seconds, and then the Map screen returns.



The registered point is shown by ■ on the map.

To change the icon or name, etc., see “(b) Editing marked points”.

You can register up to 100 marked points. If you attempt to register more than 100, a message appears for confirmation.



If you want to register a new point, delete one of the marked points. See “(c) Deleting marked points”.

## Area to Avoid

Any areas you want to avoid due to traffic jams, construction work or other reasons can be registered as an area to avoid.

Push the “MENU” button to display Menu screen and then touch the “Marked points” switch to display the following screen.



### INFORMATION

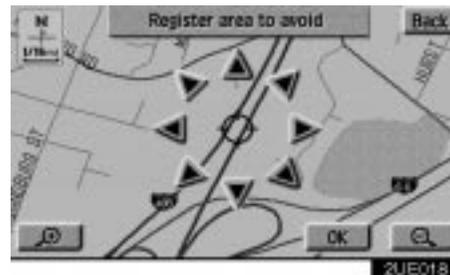
- Some areas and freeways may not be able to be set as an avoid point.
- If a destination is input in the area to avoid or the route calculation cannot be made without running through the area to avoid, a route passing through the area to avoid may be shown.

### (a) Registering area to avoid

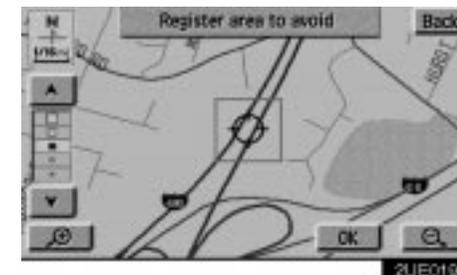
1. Touch the “Register” switch of Area to avoid.



2. Show the map of the area to avoid in the same way as you input any destination or display the map of the area you want to avoid. (See page 9 through 25.)



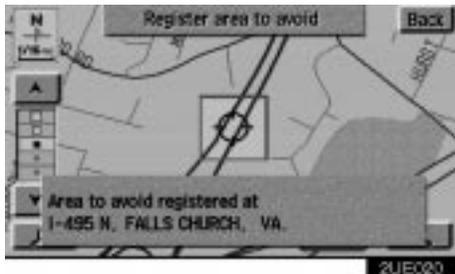
3. Touch the “OK” switch at the center of the area that you want to avoid.



4. Depending on the contents to be edited, touch either  or  switch.

## Area to Avoid

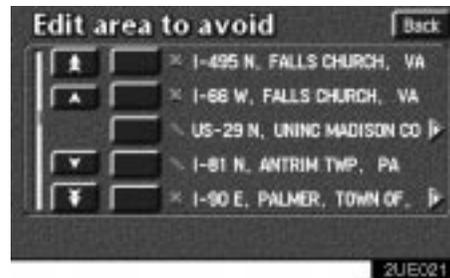
When you touch the “OK” switch, the following message appears.



After a few seconds, the Marked points screen returns.

### (b) Editing area to avoid

1. Touch the “Edit” switch of Area to avoid to display the Edit area to avoid screen.



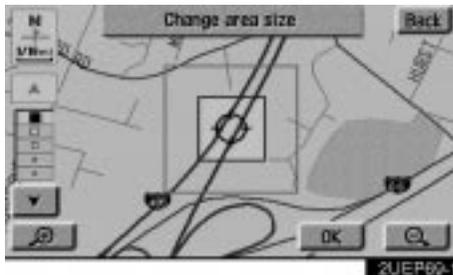
2. Touch the point you want to edit from the list.



You can edit the name, location and size of area to avoid. Touch any change switch that you want to edit.

## Area to Avoid

3. Edit the name, location or size of the area to avoid.



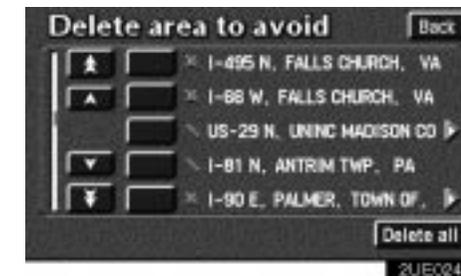
When editing is completed, touch the “OK” switch.

### INFORMATION

- *If you try to change the map to an inappropriate scale, a message appears.*
- *For magnification or reduction of the map scale, see page 50.*

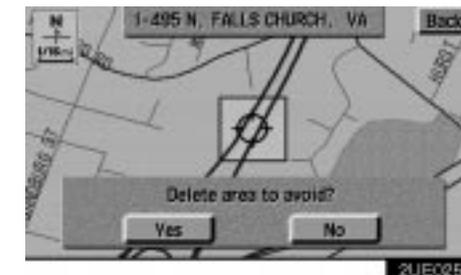
## (c) Deleting area to avoid

1. Touch the “Delete” switch of Area to avoid to display the Delete area to avoid screen.

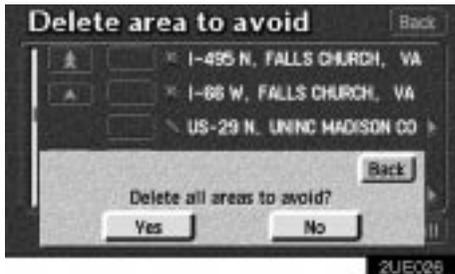


2. Select the area you want to delete.

**Delete all:** All areas to avoid which are registered in the system are deleted.



## Area to Avoid



3. Either of the above messages appears.

To delete the area(s), touch the **“Yes”** switch.

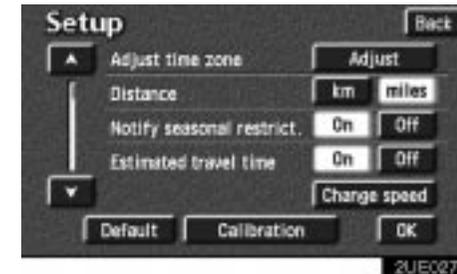
If you want to try again or cancel the deletion, touch the **“No”** switch. The previous screen will return.

## Current Position Calibration

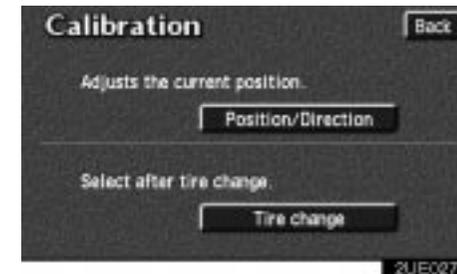
The current vehicle position mark will be automatically corrected during driving on reception of GPS signals. If your vehicle cannot receive GPS signals, you can correct the current position mark manually.



1. Push the **“MENU”** button to display the Menu screen, and touch the **“Set-up”** switch.



2. Touch the **“Calibration”** switch.



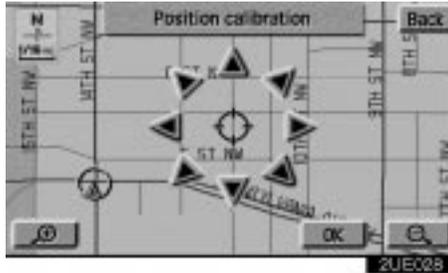
3. Touch the **“Position/Direction”** switch.

## Current Position Calibration

### INFORMATION

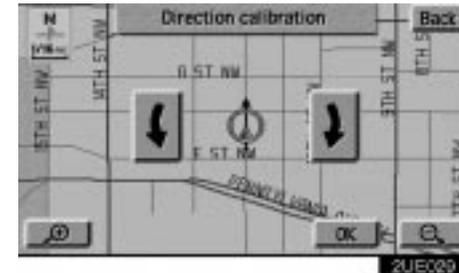
*For additional information on current position accuracy, see "Limitations of the Navigation System" on page 53.*

#### ● Position/Direction calibration



1. Touch the scroll arrows to move the cursor  to your desired location.

Touch the "OK" switch.



2. Touch either the left or right arrow to correct the direction of the current vehicle position mark.

Touch the "OK" switch on the screen and the Map screen returns.

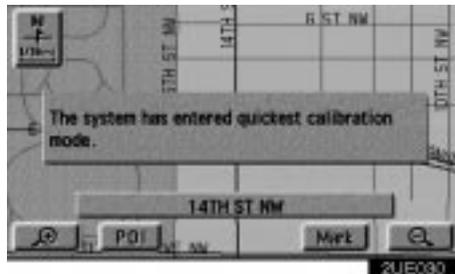
## Current Position Calibration

---

- **Tire change calibration**

The tire change calibration function is to be used when the tires are replaced. This will adjust for any possible change in tire circumference from the old tires to the new ones. If this procedure is not performed when tires are replaced, the current vehicle position mark may become incorrect.

To execute the fast distance tire calibration procedure, touch the **“Tire change”** switch on the Calibration screen.



The above message appears and the fast distance calibration is automatically started. A few seconds later, the Map screen returns.

# SECTION III

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## MORE ADVANCED FUNCTIONS

### Convenient features

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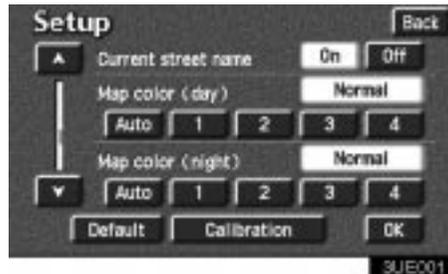
## Setup

You can set the values shown on the Setup screen.

1. Push the “MENU” button.



2. Touch the “Setup” switch to display the Setup screen. Selected items will be highlighted in green.



3. Touch the “OK” switch on the screen and the previous screen returns.

**To default:** Touch the “Default” switch on the screen. All of the settings can be defaulted.

**Map color (day or night):** You can select your desired map color.

**Auto reroute:** You can set the system will or will not automatically search for a new route to the destination.

**Estimated travel time:** You can set to display the time required to reach the destination on the road guidance screen.

**Adjust time zone:** You can select your desired time zone.

**Distance:** You can change “km” or “miles” to display your desired units.

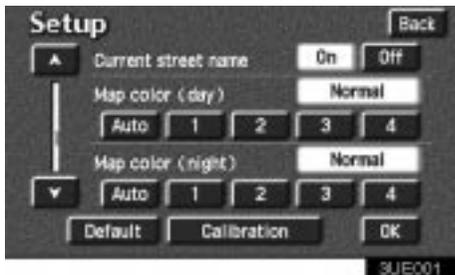
**Notify seasonal restrict:** You can select to notify or not to notify a seasonal restriction.

**Voice guide in all modes:** You can set the voice guide in all modes or not.

**Current street name:** You can select to show or not to show a current street name on the Map screen.

## MAP Color

1. Push the “MENU” button.
2. Touch the “Setup” switch.



3. Select your desired day and/or night Map color and then touch the “OK” switch to return to the Map screen. See “The map color list” below for details.

Touch the “Normal” switch to default the Map color.

Touch the “Auto” switch to select the Map color automatically. The Map color is changed in every three months.

The Map color list

Switch NO.	Map color	“Auto” mode
1	Green	Mar.-May
2	Blue	Jun.-Aug.
3	Gray	Sep.-Nov.
4	Beige	Dec.-Feb.

## Auto Reroute

When the auto reroute feature is turned on, the system will automatically search for a new route to the destination if you leave the guidance route. This feature does not operate while you are driving on roads where the guidance is not available.

1. Push the “MENU” button to display the Menu screen, and touch the “Setup” switch.



## Auto Reroute



2. Touch the “On” switch of the “Auto reroute”. If you cannot find the item on the list, touch  or  switch to scroll the list.

### INFORMATION

*If your vehicle leaves the guidance route, the system searches for a new route to the destination. The new route may or may not take you back to the previous route depending on how far you are off the original guidance route.*

## Estimated Travel Time

When the estimated travel time feature is turned on, the time required to reach the destination is displayed on the Route guidance screen.



To turn the Estimated travel time on:

1. Push the “MENU” button to display the Menu screen, and touch the “Set-up” switch.



2. Touch the “On” switch of the Estimated travel time. If you cannot find the item on the list, touch  or  switch and scroll the list.

## Estimated Travel Time



To set the average speeds:

1. Touch the “Change speed” switch of Estimated travel time.
2. Touch  or  to set the average vehicle speeds for driving on a Freeway, Main street and Residential area.

If you touch the “Default” switch, the default speed is set at each item.

3. After you finish setting the desired speeds, touch the “OK” switch. The Setup screen returns.

### INFORMATION

- *The displayed time to the destination is the approximate driving time calculated based on the speeds you selected and your actual position along the guidance route.*
- *The time shown may vary greatly depending on your progress along the route (which may be affected by road conditions such as traffic jams, construction work, etc.)*
- *Up to 99 hours 59 minutes can be displayed.*

## Adjusting Time Zone

1. Push the “MENU” button.



2. Touch the “Setup” switch.



III

## Adjusting Time Zone

3. Touch the “Adjust” switch, the Adjust time zone screen appears on the display.



4. Select your desired time zone. Selected switch is highlighted in green.

Touch the “On” switch and then touch  or  switch to set the daylight saving time.

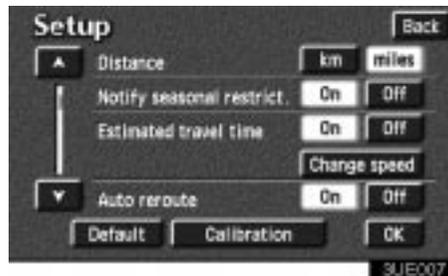
5. Touch the “OK” switch on the screen and the “Setup” screen returns.

## Distance Indication

1. Push the “MENU” button.



2. Touch the “Setup” switch.



3. Touch “km” or “miles” to select your desired units.

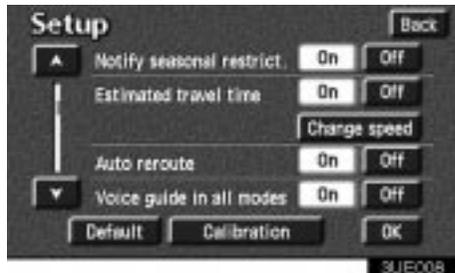
4. Touch the “OK” switch.

## Notifying Seasonal Restriction

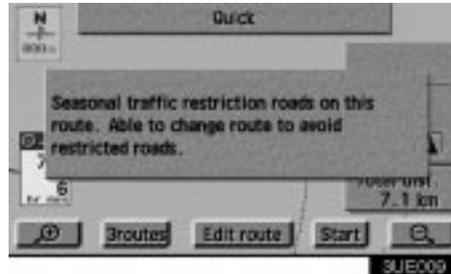
1. Push the “MENU” button.



2. Touch the “Setup” switch.



3. Touch the “On” switch of the Notify seasonal restrict. And then touch the “OK” switch. The screen return to the current position map.



The restricted road icon and the message may appear on the screen.



## Voice Guidance in All Modes

---

1. Push the “MENU” button.



2. Touch the “Setup” switch.



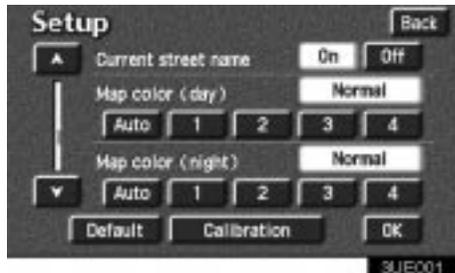
3. Touch the “On” switch on the right of “Voice guide in all modes”.

## Current Street Name

1. Push the “MENU” button.

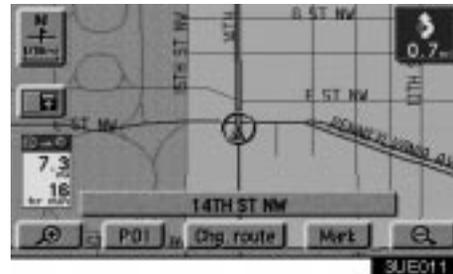


2. Touch the “Setup” switch.



3. Touch the “On” switch on the right of Current street name.

The current street name appears on the Map screen.



## Maintenance Information



This system has a function which informs you of the time to replace certain parts or components as well as other information shown on the screen. (See “Information items” on page 93.) When the system begins operating after reaching either the Information Item’s date or driving distance, the Information screen will be displayed.

The Information screen will not be displayed again by touching the “**Do not display this message again**” switch.

III

## Maintenance Information



1. Push the “INFO” button to display the Information Menu screen. Touch the “Maintenance” switch to display the Maintenance screen.

2. Touch your desired icon and input the conditions.



**Date of notice:** Input the next maintenance date.

**Distance of notice:** Input the driving distance until the next maintenance check. You can input a five-digit number for the driving distance.

When you touch the  switch on the screen, the screen changes to display the change name screen. Touch the keys to input your desired name and then input the conditions.

After you input the information, touch the “OK” switch. The screen then returns to the Maintenance screen. The icon’s color will change to green after the date or driving distance are input. The icon’s color will change to orange when your vehicle needs to be serviced. The following switches appear on the Maintenance screen.

**Delete all:** Cancel all conditions which have been input.

**Reset all:** Reset the item which has satisfied either condition.

Touch the “Off” switch of the Maintenance screen, and the Information screen will no longer be displayed.

### INFORMATION

- *For scheduled maintenance information, please refer to the “Owner’s Manual Supplement / Scheduled Maintenance”.*
- *Depending on your driving or the road conditions, the system may have a time-lag between the data which has been input and the actual date and driving distance.*

## Maintenance Information

### Information items



Oil change



Replace oil filter



Rotate tires



Replace tires



Replace battery



Replace brake linings



Replace wiper blades



Replace engine coolant



Replace brake fluid



Replace ATF



Scheduled maintenance



Replace air filter



Personal

## Dealer Setting

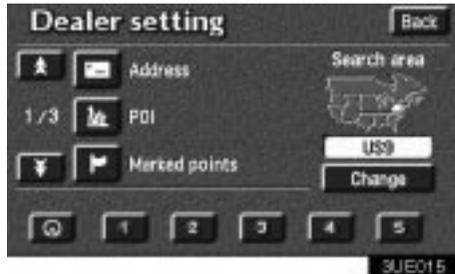


You can register your dealer's name and address. Touch the "Set dealer" switch on the Maintenance screen.

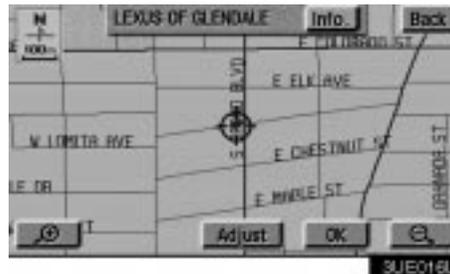


## Dealer Setting

### (a) Registering dealer



1. Enter your dealer's location address in the same way as you input any destination. (See page 9 through 25.)



2. After you enter your dealer, the screen changes and displays the map location of the dealer. If it is OK, touch the "OK" switch.

The current screen changes to the screen where you can edit the data of your dealer. (See (b) Editing dealer.)

By touching the "View map" switch of Edit dealer screen. You can see the location of the dealer. (See "Entering Destination" on page 25.)

### (b) Editing dealer



1. Touch the "Set dealer" switch and touch the "Change" switch of the item to edit.

## Dealer Setting

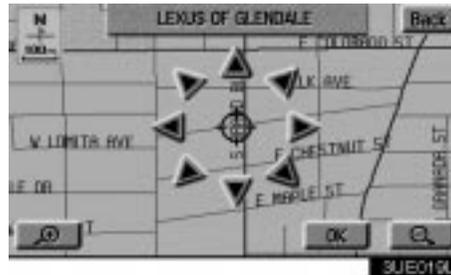
- Editing the name of the dealer or staff in charge



**Touch alphabet or numeral keys directly to input the name.**

After you finish your entry, touch the “OK” switch. The previous screen will be displayed.

- Editing the location

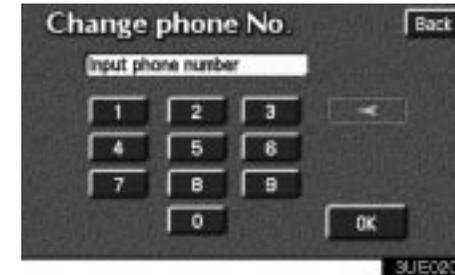


**Touch the arrows to scroll to your desired point on the Map screen.**

Touch the “OK” switch when the cursor  moves to your desired point.

The previous screen will be displayed.

- Editing the phone number



**Touch numeral keys directly.**

After you finish your entry, touch the “OK” switch.

The previous screen will be displayed.

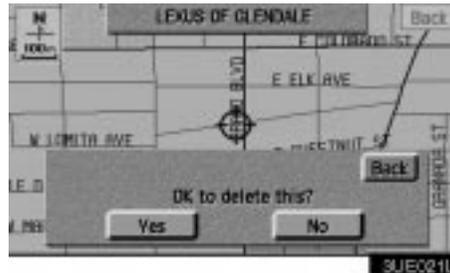
**After you finish any editing, touch the “Back” switch.**

## Dealer Setting

### (c) Deleting dealer

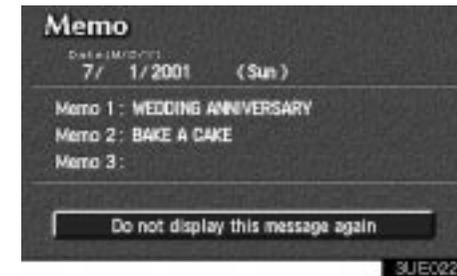


1. Touch the “Set dealer” switch and touch the “Delete dealer” switch.



2. A selected point will appear. Also, a message will appear at the bottom of the screen. To delete, touch the “Yes” switch. To cancel the deletion, touch the “No” switch.

## Calendar with Memo



This system has a function which informs you the memo you entered. When the system begins operating after reaching the memo's date, the Information screen will be displayed.

The Information screen will not be displayed again by touching the “Do not display this message again” switch.

## Calendar with Memo



Push the “INFO” button to display the Information Menu screen. Touch the switch of calendar to display the Calendar screen.

Today's date is circled in green. If today's date is not displayed on the screen, touch “Today” switch to display a calendar of this month.

### (a) Inputting a memo



1. Touch directly on the day you want to input a memo.



2. Touch the “Memo” switch to display the screen to input a memo.



3. Touch alphabet, umlaut keys directly to input a memo. You can input up to 24 letters.



## Calendar with Memo

After you input the memo, touch the “OK” switch at the bottom right of the screen. The previous screen will be appeared.

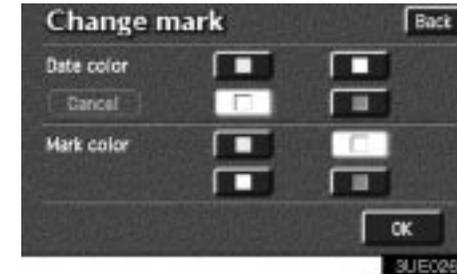
You can input a memo until December 31, 2020.



The date you input the memo is displayed with mark as above illustration. The default color of the mark is white.



You can select your desired date and/or mark color. Touch the “Chg. mark” switch.



Select your desired Date or Mark color. If you want to default the Date color you chose, touch the “Cancel” switch. After you select the Date and/or Mark color, touch the “OK” switch to display the previous screen.

## Calendar with Memo

### (b) Adding a Memo



When you want to add a memo, touch directly on the date you want to add the memo.

The Memo screen appears on the display. If touching “Memo” switch, the screen to input a memo is displayed. (See page 100 for inputting a memo.)

You can input up to three memos a day.

### (c) Deleting a memo



Touch the date you already input the memo. Display the memo you want to delete and then touch the “Delete” switch. A message appears on the display. To delete, touch the “Yes” switch. To cancel the deletion, touch the “No” switch.

### (d) Editing a memo



If you want to edit the memo, touch the date. Touching the “Edit” switch will display the Memo edit screen. (See page 101 for the details.)

## Calendar with Memo

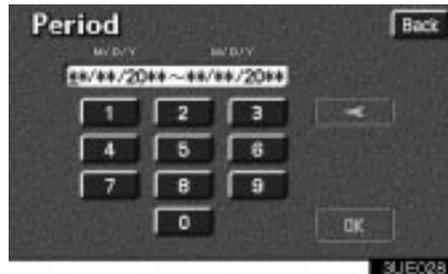
### (e) Memo list



If you want to have a look at the memo you input, touch the “List” switch to display the memo list.

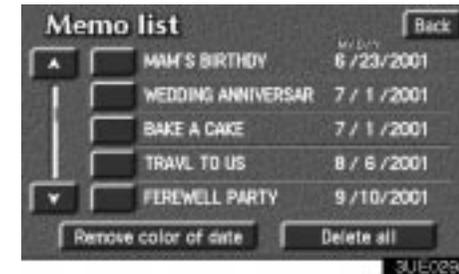


Touch your desired search condition to list the memo. The memo list is displayed on the screen.



In case of touching the “Period” switch, you can display the memo list as long as you desired. Touch numeral keys to input your desired search period. After inputting a search period of time, touch the “OK” switch. The Memo list screen will be displayed.

You can input a search period from January 1, 2000 through December 31, 2020.



If you want to delete and/or edit the memo, touch the  switch of the memo.

If you want to delete all of the memo, touch the “Delete all” switch. A message appears on the display. To delete, touch the “Yes” switch. To cancel the deletion, touch the “No” switch.

## Calendar with Memo

---

If you want to remove all of the color of date you input, touch the “**Remove color of date**” switch. A message appears on the display. To remove, touch the “**Yes**” switch. If not, touch the “**No**” switch.



**To edit:** Touch the “**Edit**” switch. (See page 99 for details.)

**To delete:** Touch the “**Delete**” switch. (See page 99 for details.)





# ***SECTION IV***

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## **OTHER FUNCTIONS**

Trip information .....	104
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Screen adjustment .....	106
Outside temperature display .....	107



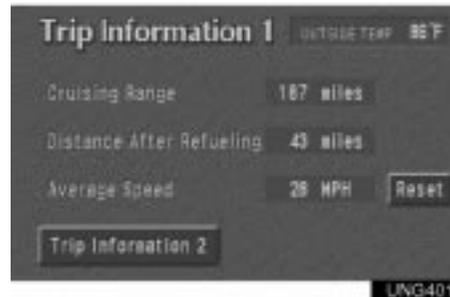
## Trip Information

Trip information such as driving time, driving distance, average vehicle speed, fuel consumption, etc. can be displayed on the screen.

1. Push the "INFO" button to display the information menu screen.



2. Touch the "Trip Information" switch.



The Trip Information 1 screen appears. The screen displays the cruising range, distance after refueling and average speed.

### Cruising Range

The Cruising Range has a function which is to tell you how far you can drive with the remaining fuel.

Even though the display indicates sufficient miles to run, if the fuel level on the fuel gauge approaches "E" or the low fuel level warning light comes on, fill the fuel tank as soon as possible. "LOW FUEL" appears on the screen.

### INFORMATION

- When you first start driving your new vehicle, the correct cruising range may not be shown. One or more refills of 10 gallons or more may be required for the system to set its calibration.
- The cruising range displayed is calculated based on past fuel consumption and may vary according to your driving style and road condition.

### Distance After Refueling

The Distance After Refueling has a function which is to tell you the driving distance after refueling with more than 10L (2.6 gal., 2.2 Imp.gal.).

When refueling, be sure to stop your vehicle and turn the ignition switch off.

### Average Speed

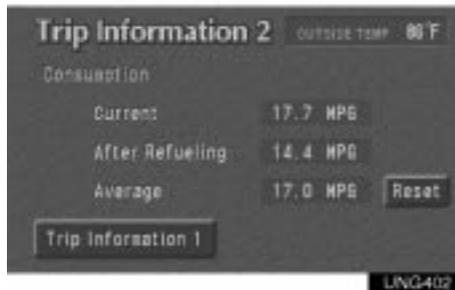
The Average Speed has a function which is to tell you the average vehicle speed. The average vehicle speed is calculated and displayed based on the total driving distance and the total driving time with the engine running.

## Trip Information

---

The displayed value is updated every 10 seconds.

To calculate from the beginning, touch the **"Reset"** switch.



When you touch the **"Trip Information 2"** switch on the Trip Information 1 screen, the screen changes and the Trip Information 2 screen appears. The current consumption, consumption after refueling and average consumption are displayed on the screen.

### Current Consumption

**The current fuel consumption is calculated and displayed based on the driving distance and the fuel consumption for 2 seconds with engine running.**

The value is updated every 2 seconds.

If you are driving at low speeds just before stopping, the accurate figure may not be shown.

### Consumption After Refueling

**The average fuel consumption after refueling with more than 10L (2.6 gal., 2.2 Imp.gal.) is calculated and displayed based on the total driving distance and the total fuel consumption after refueling.**

The value is updated every 10 seconds.

When refueling, be sure to stop your vehicle and turn the ignition switch off.

### Average Consumption

**The average consumption is calculated and displayed based on the total driving distance and the total fuel consumption with the engine running.**

The value is updated every 10 seconds.

To calculate from the beginning, touch the **"Reset"** switch.

## Screen Transition

The function returning to the previous screen from the audio or air conditioner screen is selectable.

1. Push the "INFO" button on the bezel to display the option screen and touch the "Screen Transition" switch.



2. Select the "ON" or "OFF" and then touch the "OK".

**ON:** The previous screen automatically returns from the audio or air conditioner screen 20 seconds after the end of audio or air conditioner screen operation.

**OFF:** The audio or air conditioner screen remains on.

## Screen Adjustment

You can adjust the brightness or contrast of the screen depending on the brightness of your surroundings. You also can turn the display off.

Push the "DISPLAY" button to display the DISPLAY screen.



### Contrast and brightness adjustment

#### **CONTRAST "+"**:

Strengthens the contrast of the screen.

#### **CONTRAST "-"**:

Weakens the contrast of the screen.

**BRIGHTNESS "+"**: Brightens the screen.

**BRIGHTNESS "-"**: Darkens the screen.

The screen turns off when you push the "SCREEN OFF". To turn the display screen back on, push any bezel switch such as "INFO", etc. The selected screen appears.

## Screen Adjustment



**Depending on the position of the headlight switch, the screen changes to the day mode or night mode.**

To display the screen in the day mode even with the headlight switch on, touch "DAY MODE" on the adjustment screen for brightness and contrast control.

However, if the instrument panel light control switch is turned fully to the right, mode switching cannot be done. It remains in the day mode. In this case, "DAY MODE" is not shown on the screen.

If the screen is set in the day mode with the headlight switch turned to on, this condition is memorized in the system even with the engine turned off.

## Outside Temperature Display



**The outside temperature is shown ranging from -30°C (-22°F) up to 50°C (122°F) on the Trip information 1, Trip information 2 or air conditioning screen.**



# **SECTION V**

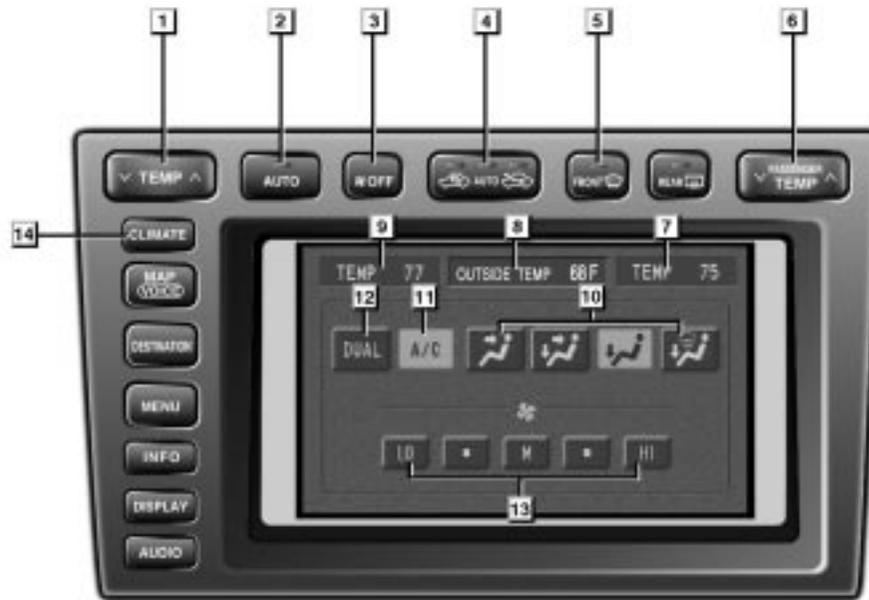
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## **AIR CONDITIONING**

Automatic air conditioning controls ..... 110



## Automatic Air Conditioning Controls

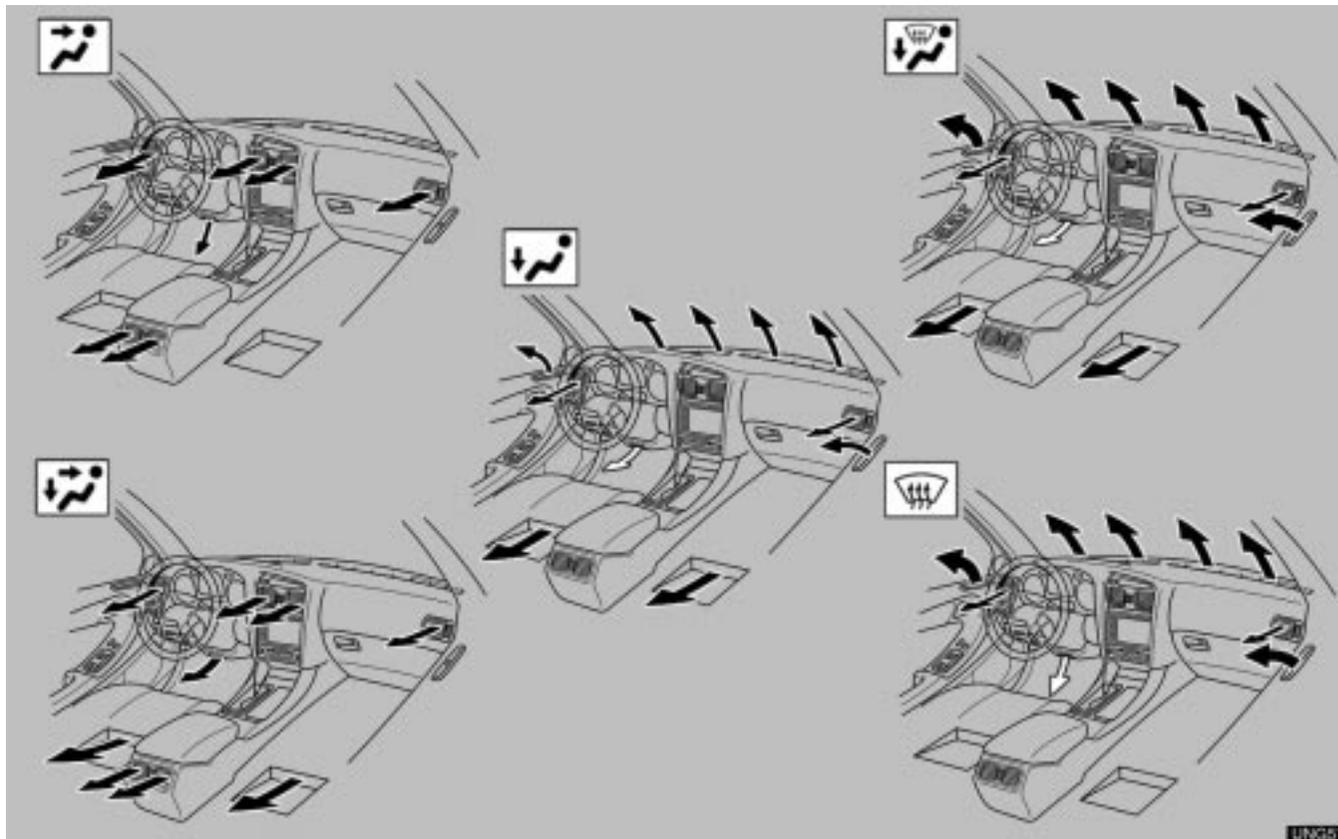


WENG501c

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## Automatic Air Conditioning Controls



► **Air flow selection**

⇒ See "Lower vent" on page 119.



## Automatic Air Conditioning Controls

- ▶ The automatic air conditioning automatically maintains the set temperature.

This air conditioning features automatic fan speed and air flow control which automatically selects the most suitable fan speed and air flow to control the temperature. The ignition key must be in the "ON" position.

**CLIMATE:** Push this button to display switches for automatic air conditioning controls.

### NOTICE

*To prevent the battery from being discharged, do not leave the air conditioning on longer than necessary when the engine is not running.*

### (a) Climate control

#### SETTING OPERATION - automatic control



#### 1. Push the "AUTO" button.

Air flow quantity, switching of the diffusers, on-off of the air conditioning, and switching of the air intake between RECIRCULATED AIR and OUTSIDE AIR are automatically adjusted. The operation status is shown by each indicator.

When one of the manual control buttons is depressed while operating in automatic mode, the mode relevant to the depressed button is set. Other conditions continue to be adjusted automatically.

Push the "OFF" button to turn the air conditioning off.

It is recommended that you close the lower vent. For details about this, see page 119.

## Automatic Air Conditioning Controls



2. Use the "TEMP" or "PASSENGER TEMP" button to set the desired temperature.

The "TEMP" or "PASSENGER TEMP" button is used to set the desired temperature. The temperature will be controlled on the driver and passenger sides simultaneously or individually.

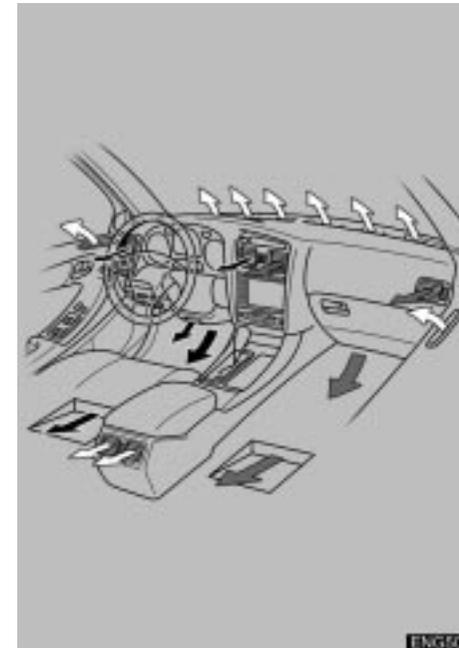
**"TEMP" button** - Changes the temperature on the driver and passenger sides simultaneously or the driver side only.

**"PASSENGER TEMP" button** - Changes the temperature on the passenger side only.

**"DUAL" switch** - Changes the mode of the temperature setting.

- **When the dual mode is on** - For individual temperature setting
- **When the dual mode is off** - For simultaneous temperature setting

The selected mode is highlighted in green.



- ➔ Driver side setting
- ➡ Passenger side setting
- ⇨ Mixed setting



## Automatic Air Conditioning Controls

### SETTING OPERATION - manual control

When one of the manual control buttons is depressed while operating in automatic mode, the mode relevant to the depressed button is set. Other conditions continue to be adjusted automatically.

If manual air flow selection is desired -



The outlets from which air is delivered can be selected manually by touching the switch. The function of each mode is as follows:

- 1 **Panel** - Air flows mainly from the instrument panel vents.
- 2 **Bi-level** - Air flows from both the floor vents and the instrument panel vents.

- 3 **Floor** - Air flows mainly from the floor vents.

It is recommended that you close the lower vent. For details about this, see page 119.

- 4 **Floor/Windshield** - Air flows mainly from the floor vents and windshield vents.

It is recommended that you close the lower vent. For details about this, see page 119.

The selected mode is highlighted in green.

If quick heating or cooling is desired -



Push the "TEMP" or "PASSENGER TEMP" button on either side and hold it until the maximum figure or minimum figure appears.

If manual fan speed control is desired -



- 1 Fan speed at low
- 2 Fan speed at high

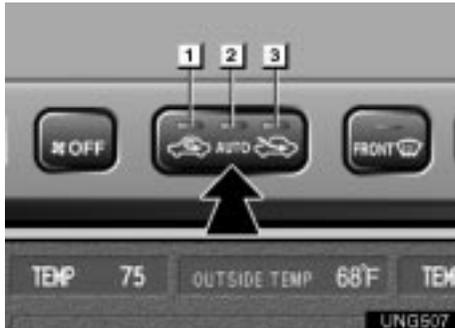
The fan speed can be set to your desired speed by touching the appropriate air flow control switch. The higher the fan speed is, the more air is delivered. Pushing the "OFF" button turns off the fan.

To remove exterior windshield frost, use the high speed setting.

The selected mode is highlighted in green.

## Automatic Air Conditioning Controls

If manual switching of air intake is desired -



Each time you push the air intake control button, the mode changes in order from the RECIRCULATED AIR mode to AUTOMATIC mode to OUTSIDE AIR mode, then back to the RECIRCULATED AIR mode. Each indicator light shows which mode is now selected.

- 1 RECIRCULATED AIR mode** - If quick circulation of cooled air is desired, select this mode.
- 2 EXHAUST GAS AUTOMATIC mode** - If the outside air contains harmful substances like exhaust gas (i.e., when the vehicle running just in front of your vehicle accelerates rapidly), the system changes automatically from the OUTSIDE AIR mode (with indicators **2** and **3** on) to the RECIRCULATED mode (with indicators **1** and **2** on).
- 3 OUTSIDE AIR mode** - The system will take fresh outside air into the vehicle.

For normal use, it is best to keep the air intake control button set to OUTSIDE AIR mode. If recirculated air is used during heating, the windows will fog up more easily.

Turning off the air conditioning manually will cancel the EXHAUST GAS AUTOMATIC mode. If you select the "AUTO" mode during fan operating, the air conditioning turns on and the EXHAUST GAS AUTOMATIC mode will operate.

To change the sensitivity of the sensor switching between the RECIRCULATED and OUTSIDE AIR in the AUTOMATIC mode, push the air intake control button for a few seconds. The display changes as illustrated below.

The sensitivity of the sensor can be adjusted only while the vehicle has been stopped.



**Touch the desired switch.**

When you push any button except the air intake control button, the above screen disappears.



## Automatic Air Conditioning Controls

### If manual on-off of the air conditioning is desired -

Push the "A/C" button to turn the air conditioning on and push it again to turn the air conditioning off. If you turn off the air conditioning manually, the EXHAUST GAS AUTOMATIC mode will be cancelled.

If the outside temperature is lowered down to around 0°C (32°F), the air conditioning will turn off automatically. At this time, the indicator on the A/C button is off and the EXHAUST GAS AUTOMATIC indicator light remains on. However, the EXHAUST GAS AUTOMATIC mode does not operate. When the air conditioning turns on as with the raised temperature, the EXHAUST GAS AUTOMATIC mode resumes.

If the system is used for ventilation, heating in dry weather or removing frost or exterior fog on the windshield, turn the air conditioning off once it is no longer required. This will improve fuel economy. The air conditioning can be used for year-round automatic temperature control including cooling and dehumidifying operation.

### (b) Windshield defogging and defrosting



#### To remove interior fog on the windshield -

Push the "FRONT WINDSHIELD" button.

#### To remove frost or exterior fog on the windshield -

1. Push the upper side of the temperature control button until maximum figure appears on the temperature display.
2. Push the "FRONT WINDSHIELD" button.

3. Push the "HI" of the air flow control switch to obtain a maximum air flow.

4. Leave the air conditioning on-off button off.

For further information for removing frost and fog, see "Lower vent" on page 119.

When the "FRONT WINDSHIELD" button is pushed while operating in automatic mode, the air conditioning is set to operate and the OUTSIDE AIR mode is set.

If you push the "FRONT WINDSHIELD" button once again while in the FRONT WINDSHIELD mode, the mode then returns to the last mode used.

### CAUTION

Do not use the "FRONT WINDSHIELD" button during cooled air operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield could cause the outer surface of the windshield to fog up blocking your vision.

## Automatic Air Conditioning Controls

When you turn the ignition switch on after the removal and installation of the battery terminal, the indicator light may flash and the operating sound of the motor may be heard. This does not indicate a malfunction.

You may hear the operating sound of the motor about 70 seconds after the ignition switch is turned off. This is not also a malfunction.

### (c) Outside temperature display



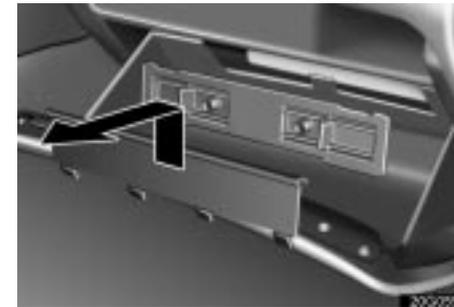
**Outside temperature is displayed on the screen.**

The displayed temperature ranges from  $-30^{\circ}\text{C}$  ( $-22^{\circ}\text{F}$ ) up to  $50^{\circ}\text{C}$  ( $122^{\circ}\text{F}$ ). If the temperature does not appear on the display or it shows "--", take your vehicle to your Lexus dealer.

### (d) Air filter

The air filter may clog after long use and reduce air flow. However, you can inspect the filter easily.

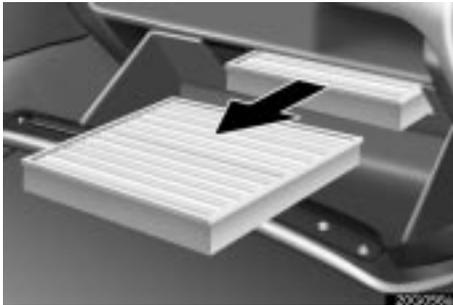
When you inspect and replace the air filter, be sure to turn off the fan.



**1. Open the glove box and remove the two covers.**



## Automatic Air Conditioning Controls



### 2. Take out the air filter.

If it is dirty, it should be replaced. To maintain the air conditioning efficiency, replace the air filter according to the maintenance schedule. (For scheduled maintenance information, please refer to the "Owner's Manual Supplement / Scheduled Maintenance".)

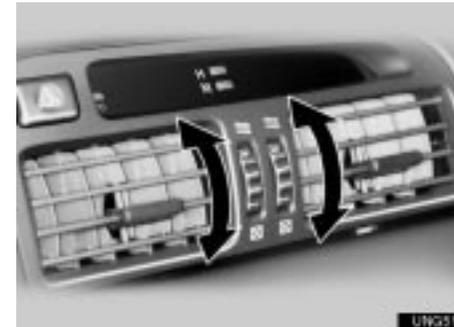
#### **INFORMATION**

***The air filter should be installed properly in position. The use of air conditioning with the air filter removed may cause deteriorated dustproof performance and then affect air conditioning performance.***

### (e) Operating tips

- Make sure the air inlet grilles in front of the windshield are not blocked by leaves or other obstructions.
- If air flow control is not satisfactory, check the dashboard vents. (See "Center vents", "Side vents", "Lower vent" and "Rear vents".)
- To help cool down the interior after parking in the hot sun, drive for the first few minutes with the windows open. After the excess heat has blown away, close the windows.
- When driving on dusty roads, close all windows. If dust thrown up by the vehicle is still drawn into the vehicle after closing the windows, it is recommended that the air intake control button be left to the OUTSIDE AIR mode and the air flow control switch be selected to anywhere except the "OFF" button.
- If following another vehicle on a dusty road, or driving in windy and dusty conditions, it is recommended that the air intake control button be temporarily pressed in to the RECIRCULATED AIR mode, which will close off the outside passage and prevent outside air and dust from entering the vehicle interior.

### Center vents

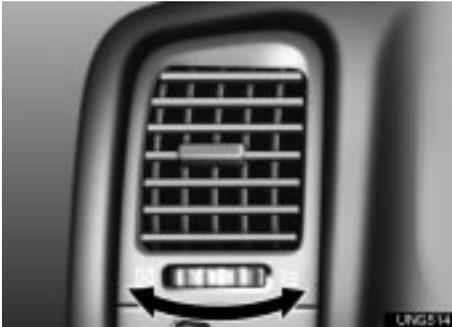


**The center vents may be opened or closed as shown.**

## **Automatic Air Conditioning Controls**

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### **Side vents**



The side vents may be opened or closed as shown.

### **Lower vent**



The lower vent may be opened or closed as shown.

It is recommended that you close the lower vent for removing frost or fog on the side windows button or use the "Floor", "Floor/Windshield" or "Windshield" mode.

### **Rear vents**



The rear vents may be opened or closed as shown.





# **SECTION VI**

---

## **AUDIO SYSTEM**

Audio system ..... 122

## Audio System

### Quick reference for your audio system

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► The "DISC" button works only when your Lexus is equipped with an automatic changer.

## Audio System

### Using your audio system: some basics

This section describes some of the basic features of the Lexus audio system. Some information may not pertain to your system.

Your audio system works when the ignition key is in the "ACC" or "ON" position.

#### NOTICE

*To prevent the battery from being discharged, do not leave the car audio on longer than necessary when the engine is not running.*

### (a) Turning the system on and off



**POWER-VOL:** Push this knob to turn the audio system on and off. Turn this knob to adjust the volume. The system turns on in the last mode used.

**AUDIO:** Push this button to display switches for audio system.



**Push the "AM", "FM", "TAPE" or "DISC" button to turn on that mode. The selected mode turns on directly.**

Push these buttons if you want to switch from one mode to another.

If the tape or disc is not set, the cassette player or compact disc player does not turn on.

You can turn off the cassette player by ejecting the cassette tape. If the audio system was previously off, then the entire audio system will be turned off when you eject the cassette tape. If another function was previously playing, it will come on again.

## Audio System

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### (b) Automatic sound levelizer

When the audio sound becomes difficult to be heard due to road noise, wind noise, etc. during driving, touch the "ASL" switch. The system adjusts to the optimum volume and tone quality according to the noise level.

The switches for radio, cassette tape and compact disc player operation are displayed on the liquid crystal display. Touch them lightly and directly on the screen.

The selected switch is highlighted in green.

## Audio System

### (c) Tone and balance

How good an audio program sounds to you is largely determined by the mix of the treble, mid-range, and bass levels. In fact, different kinds of music and vocal programs usually sound better with different mixes of treble, mid-range, and bass.

A good balance of the left and right stereo channels and of the front and rear sound levels is also important.

Keep in mind that if you are listening to a stereo recording or broadcast, changing the right/left balance will increase the volume of one group of sounds while decreasing the volume of another.



**Touching the "SOUND" switch on the screen displays the sound adjustment screen.**



**BASS "+" or "-":** Adjusts low-pitched tones.

**MID "+" or "-":** Adjusts mid-pitched tones.

**TREB "+" or "-":** Adjusts high-pitched tones.

**"Front" or "Rear":** Adjusts sound balance between the front and rear speakers.

**"L" or "R":** Adjusts sound balance between the left and right speakers.

**"OK":** The previous screen returns.

## Audio System

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### (d) Your radio antenna

The wire antenna is mounted inside the rear window.

#### **NOTICE**

- *When cleaning the inside of the rear window, be careful not to scratch or damage the wire antenna.*
- *Putting a window tint (especially, conductive or metallic type) on the rear window may affect the reception of radio. For the installation of the window tint, consult with your Lexus dealer.*

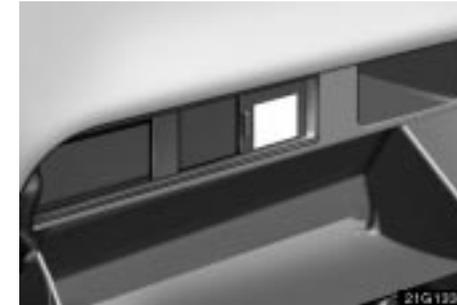
### (e) Your cassette player

When you insert a cassette, the exposed tape should be to the right.

#### **NOTICE**

*Do not oil any part of the cassette player, and do not insert anything except a cassette tape into the slot.*

### (f) Your automatic changer



If your Lexus is equipped with an automatic changer, it can play selected discs or continuously play all the discs set in the magazine.

When you set discs into the magazine, make sure they face the correct way. If not, the player will display "ERROR" and the disc number.

#### **NOTICE**

*Never try to disassemble or oil any part of the compact disc player. Do not insert anything except a compact disc into the magazine.*

## Audio System

The player is intended for use with 12 cm (4.7 in.) discs only.

### Radio operation

#### (a) Listening to the radio



**Push these buttons to choose either an AM or FM station.**

"AM", "FM1", "FM2" or "FM TYPE" appears on the display.



**Turn this knob to step up the station band or to step down.**

Your radio automatically changes to stereo reception when a stereo broadcast is received. "ST" appears on the display. If the signal becomes weak, the radio reduces the amount of channel separation to prevent the weak signal from creating noise. If the signal becomes extremely weak, the radio switches from stereo to mono reception. In this case, "ST" disappears from the display.

## Audio System

### (b) Presetting a station



**1. Tune in the desired station.**

**2. Touch one of the station selector switches (1-6) and hold it until a beep is heard. This sets the station to the switch and the frequency appears on the switch**

Each switch can store FM1, FM2 and AM. To change the preset station to a different one, follow the same procedure.

The preset station memory is cancelled when the power source is interrupted by battery disconnection or a blown fuse.

### (c) Selecting a station

Your Lexus has an electronic tuning radio (ETR). Tune in the desired station using one of the following methods.

**Preset tuning:** Touch the switch (1-6) or push the "∧" or "∨" button of the "CH" button for the station you want. The switch (1-6) is highlighted in green and station frequency appears on the display.

**Manual tuning:** Turn the "TUNE" knob briefly. Each time you turn the knob, the radio will step up or down to another frequency.

**Seek tuning:** Push the "∧" or "∨" button of the "SEEK" button and hold it until you hear a beep. The radio will begin seeking up or down for a station of the nearest frequency and will stop on reception. Each time you push the button, the stations will be searched out one after another.



**Scan tuning:** Touch the "SCAN" switch briefly. "SCAN" appears on the display. The radio will find the next station up or down the band, stay there for a few seconds, and then scan again. To select a station, touch the "SCAN" switch a second time.

## Audio System

**Preset scan tuning:** Touch the "SCAN" switch and hold it until you hear a beep. "P. SCAN" appears on the display. The radio will tune in the next preset station up or down the band, stay there for a few seconds, and then move to the next preset station. To select a station, touch the "SCAN" switch a second time.

### (d) RDS (Radio Data System)



**TRAF (Traffic) function:** A station that regularly broadcasts traffic information is automatically sought.

When you push the "TRAF" button, "TRAF SEEK" appears on the display and the radio will start seeking any traffic program station.

If any traffic program station is not found, "NOTHING" appears and the previous mode returns.

If the traffic program station is found, the name for traffic program station is displayed and "TRAF" is lit for a while until traffic announcement is received.

### (e) TYPE (Program type)



When you touch the "RDS SRCH" switch during FM reception, "RDS SEARCH" appears and the radio starts to search RDS station.

If any RDS station cannot be found, "NO RDS Stations Found" appears and the previous mode returns.

If RDS stations are found, the stations are read and preset by program type. The FM TYPE mode screen displays the "\*\*\* RDS Stations Found" (\*\* indicates the number of stations which are found) and then RDS stations appear in the order of frequency.

## Audio System

If in one program type, more than 6 stations are found, the 6 stations are preset in the order of the lower frequency.

Each time you push the "◀" or "▶", the program type changes as in the following:

- ROCK
- EASY LIS (Easy listening)
- CLS/JAZZ (Classical music and Jazz)
- R&B (Rhythm and Blues)
- INFORM (Information)
- RELIGION
- MISC.
- ALERT (Emergency message)

### (f) Radio text message



If "MSG" appears during FM reception, touching the "MSG" switch displays the message display screen which indicates the text message from the RDS station.



If a new message is received with the first text message on the display, "MSG" appears on the corner of the screen again. When you touch the "LATEST MESSAGE" switch, the new message appears.

The RDS audio system can store three messages consisting of 64 characters in memory. To store a message in memory, touch the "STORE" switch until you hear a beep.

If 3 messages are already stored in memory, the oldest message will be overwritten by the new message.

## Audio System

To recall a radio text message, touch the "RECALL" switch. Each time you touch the switch, the available messages will be displayed beginning with the newest one.

When you touch the "OK" switch, the previous screen returns.

### Cassette tape player operation

#### (a) Playing a cassette tape



**When you insert a cassette tape, the exposed tape should be to the right.**

The player will automatically start when you insert a cassette tape. At this time, "Tape" appears on the display.

If a metal or chrome equivalent cassette tape is put in the cassette player, the player will automatically adapt to it and "MTL" appears on the display.

To stop or eject the cassette tape, push the "▲" button.



**If a cassette is already in the slot, push the "TAPE" button.**

**Dolby® Noise Reduction\* feature:** If you are listening to a tape that was recorded with Dolby® B Noise Reduction, touch the switch marked with the double D symbol. The "DD" switch will be highlighted in green. Touch the switch again to turn off Dolby® B NR.

The Dolby NR mode reduces tape noise by about 10 dB. For best sound reproduction, play your tapes with this switch on or off according to the mode used for recording the tape.

## Audio System

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\* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

### (b) Manual program selection



**Reverse switch:** You can reverse the tape by touching the "◀|▶" switch or "PROG" button. The display will show the opposite direction after reversing the tape. Also if the tape reaches the end of one side, it is automatically reversed to the other side.

**Fast forward and Rewind switches:** You can fast forward or fast rewind by touching the "◀◀" or "▶▶" switch.

To stop the tape while it is fast forwarding, touch "▶▶", to stop the tape while it is rewinding, touch "◀◀".

If a tape rewinds completely, the cassette player will stop and then play the same side. If a tape fast forwards completely, the cassette player will play the other side of the tape using the auto-reverse feature.

**Auto-reverse feature:** After the cassette player reaches the end of a tape, it automatically reverses and begins to play the other side, regardless of whether the cassette was playing or fast forwarding.

## Audio System

### (c) Automatic program selection



**"RPT" switch:** The repeat feature automatically replays the current program.

Touch the "RPT" switch while the program is playing. When the program ends, it will automatically be rewound and replayed. Touch the switch again to turn off the repeat feature.

There must be at least 3 seconds of blank space between programs for the repeat feature to work correctly.

**"SKIP" switch:** The skip feature allows you to fast forward past long stretches of blank tape. This is especially useful at the end of cassettes.

Touch the **"SKIP"** switch. The player will automatically skip any blank portions of 15 seconds or more and play the next program. To cancel it, touch the switch once again.



**"Automatic program selection" button:** The automatic program selection feature allows you to program your cassette player to skip forward or backward to locate the song you want to hear. You can skip up to 9 programs at a time.

Push this button on the upper side to skip forward. "FF" and the number will appear on the display. Push the button until the number you want to skip appears on the display. After that, the player will automatically skip forward.

When the end of the tape is reached, the player automatically reverses sides and resumes normal play.

Push this button on the lower side to skip backward. Push the button until "REW" and the number you want to skip appear on the display.

- If you set "REW 1", the player will rewind to the beginning of the current program.
- When counting the number of programs you want to rewind, remember to count the current program as well. For example, if you want to rewind to a song that is two before the song you are listening to, push this button until "REW 3" appears on the display.

When the beginning of the tape is reached, the player automatically resumes normal play.

There must be at least 5 seconds of blank space between programs for this feature to work correctly.

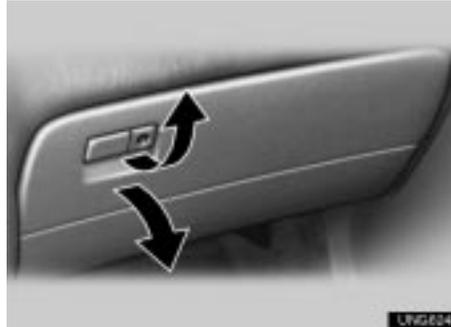
**"RPT", "SKIP" or "Automatic program selection" features:** These features may not work well with some spoken word, live or classical recordings.

## Audio System

### Compact disc player operation

The compact disc player is an optional accessory that your vehicle is pre-wired to accept. Although your audio system has a CD button, your vehicle may or may not be equipped with a CD player. Please contact your dealer for additional details if you would like to have the optional CD player installed.

#### (a) Inserting compact discs

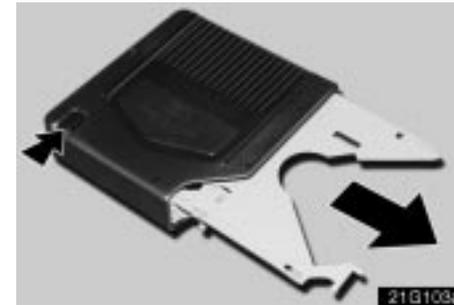


**1. Push the lock release button and open the cover.**



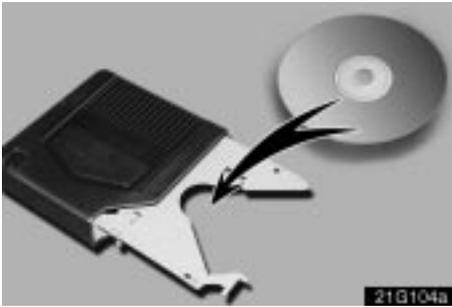
**2. Slide and open the cover.**

The magazine is automatically ejected.



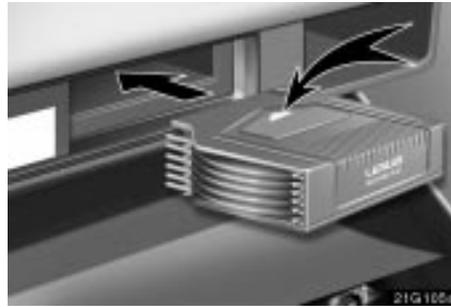
**3. Pull out the tray while pushing the lock release button.**

## Audio System



4. Put a disc on the tray with its label face up and push the tray back into the magazine.

If the label faces down, the disc cannot be played. In this case, "ERROR" and the disc number appears on the display.



5. Insert the magazine into the player as indicated by the arrow head on the magazine, and close the cover and glove box door.

When the magazine is set completely, the system will be in a "Load" cycle for approximately 20 seconds while the system searches for discs in the magazine. Upon completion of this cycle, the CD unit will be ready to play. If the "DISC" button is pushed during the "Load" cycle, "CD SEEK" appears on the display until the system has completed the load cycle, after which the system will begin normal play.



The numbers of the trays where the compact disc is not set are dimmed.

## Audio System

### (b) Playing a compact disc



Push the "DISC" button if the magazine is already loaded in the player.

"CD" appears on the display.

The discs set in the magazine are played continuously, starting with disc number 1. The disc number of the disc currently being played, the track number and the time from the beginning of the program are shown on the display.

When play of one disc ends, the first track of the following disc starts. When play of the final disc ends, play of the first disc starts again.

The player will skip any empty disc trays.

### (c) Selecting a desired disc



On the screen: Touch the desired disc number.

The selected disc number is highlighted in green.

The player will start playing the selected disc from the first track.

On the audio panel: Push the "∧" or "∨" button of the "DISC" button.

When you release the button, the player will start playing the selected disc from the first track.

### (d) Searching for a desired disc



Touch the "DISC SCAN" switch.

With "DISC SCAN" highlighted in green, the program at the beginning of each disc will be played for 10 seconds. To continue listening to the program of your choice, touch the "DISC SCAN" switch a second time.

After all the tracks are scanned in one pass, normal play resumes.

## Audio System

### (e) Selecting a desired track



**"TRACK" button:** Use for direct access to a desired track.

Push either side of the **"TRACK"** button and hold it until the desired track number appears on the display. As you release the button, the player will start playing the selected track from the beginning.

**Fast forward:** Touch the **"▲"** switch and hold it to fast forward the disc. When you release the switch, the compact disc player will resume playing from that position.

**Reverse:** Touch the **"▼"** switch and hold it to reverse the disc. When you release the switch, the compact disc player will resume playing.

### (f) Searching for a desired track



**Touch the "SCAN" switch.**

"Scan" will be highlighted in green. The compact disc player will play the next track for 10 seconds, then scan again. To select a track, touch the **"SCAN"** switch a second time. If the player reaches the end of the disc, it will continue scanning at track 1.

After all the tracks are scanned in one pass, normal play resumes.

## Audio System

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### (g) Other compact disc player functions



**"RPT" switch:** Use it for automatic repeat of the track you are currently listening to.

Touch the switch while the track is playing. When the track is finished, the player will automatically go back to the beginning of the track and play the track again. To cancel it, touch the switch once again.

**"DISC RPT" switch:** Use it for automatic repeat of the disc you are currently listening to.

Touch the switch while the disc is playing. When the disc is finished, the player will automatically go back to the beginning of the disc and play the disc again. To cancel it, touch the button once again.

**"DISC RAND" switch:** Use it for automatic track selection for all the discs and play by the system.

When the switch is touched, the system selects a track in the discs of all the magazines which are set and plays it. To cancel it, touch the switch once again.

When a track is skipped or the system is inoperative, touch the switch to reset.

**"RAND" switch:** Use it for automatic and random selection of the disc which you are currently listening to.

When the switch is touched, the system selects a track in the disc you are currently listening to. To cancel it, touch the switch once again.

### (h) If the player malfunctions

If "WAIT" appears on the display, audio signals of the disc cannot be read or the system has trouble. Push the **"DISC"** button once again.

If the player does not operate, check that the disc surface is not soiled or damaged. If the disc is O.K., the following two causes are possible.

- Condensation may have occurred on the internal mechanism of the automatic changer. Open the cover to let the air circulate.
- The temperature of the player's internal mechanism is raised because of high external temperature. Remove the magazine from the player to cool it.

If the player still does not operate, take it to your Lexus dealer.

## Audio System

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### Car audio system operating hints

#### **NOTICE**

*To ensure the correct audio system operation:*

- *Be careful not to spill beverages over the audio system.*
- *Do not put anything other than a cassette tape or CD magazine into the cassette tape slot or CD changer.*
- *The use of cellular phone inside or near the vehicle may cause a noise from the speakers of the audio system which you are listening to. However, this does not indicate a malfunction.*

#### **Radio reception**

Usually, the problem with radio reception does not mean there is a problem with your radio - it is just the normal result of conditions outside the vehicle.

For example, nearby buildings and terrain can interfere with FM reception. Power lines or telephone wires can interfere with AM signals. And of course, radio signals have a limited range, and the farther you are from a station, the weaker its signal will be. In addition, reception conditions change constantly as your vehicle moves.

Here are some common reception problems that probably do not indicate a problem with your radio:

#### **FM**

**Fading and drifting stations** - Generally, the effective range of FM is about 40 km (25 miles). Once outside this range, you may notice fading and drifting, which increase with the distance from the radio transmitter. They are often accompanied by distortion.

**Multi-path** - FM signals are reflective, making it possible for two signals to reach your antenna at the same time. If this happens, the signals will cancel each other out, causing a momentary flutter or loss of reception.

**Static and fluttering** - These occur when signals are blocked by buildings, trees, or other large objects. Increasing the bass level may reduce static and fluttering.

**Station swapping** - If the FM signal you are listening to is interrupted or weakened, and there is another strong station nearby on the FM band, your radio may tune in the second station until the original signal can be picked up again.

#### **AM**

**Fading** - AM broadcasts are reflected by the upper atmosphere - especially at night. These reflected signals can interfere with those received directly from the radio station, causing the radio station to sound alternately strong and weak.

**Station interference** - When a reflected signal and a signal received directly from a radio station are very nearly the same frequency, they can interfere with each other, making it difficult to hear the broadcast.

**Static** - AM is easily affected by external sources of electrical noise, such as high tension power lines, lightening, or electrical motors. This results in static.

#### **Caring for your cassette player and tapes**

For high performance from your cassette player and tapes:

Clean the tape head and other parts regularly.

## Audio System

- A dirty tape head or tape path can decrease sound quality and tangle your cassette tapes. The easiest way to clean them is by using a cleaning tape. (A wet type is recommended.)

Use high-quality cassettes:

- Low-quality cassette tapes can cause many problems, including poor sound, inconsistent playing speed, and constant auto-reversing. They can also get stuck or tangled in the cassette player.
- Do not use a cassette if it has been damaged or tangled or if its label is peeling off.
- Do not leave a cassette in the player if you are not listening to it, especially if it is hot outside.
- Store cassettes in their cases and out of direct sunlight.
- Avoid using cassettes with a total playing time longer than 100 minutes (50 minutes per side). The tape used in these cassettes is thin and could get stuck or tangled in the cassette player.

### Caring for your compact disc player and discs

- The player is intended for use with 12 cm (4.7 in.) discs only.
- Extremely high temperature can keep your compact disc player from working. On hot days, use air conditioning to cool the vehicle interior before you listen to a disc.
- Bumpy roads or other vibrations may make your compact disc player skip.
- If moisture gets into your compact disc player, you may not hear any sound even though your compact disc player appears to be working. Remove the magazine from the player and wait until it dries.



- Use only compact discs marked as shown above. The following products may not be playable on your compact disc player.  
Copy-protected CD  
CD-R (CD-Recordable)  
CD-RW (CD-Re-writable)  
CD-ROM

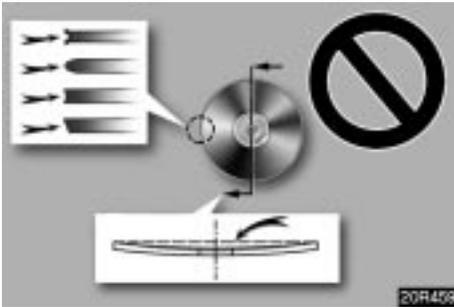
## Audio System



► **Special shaped discs**



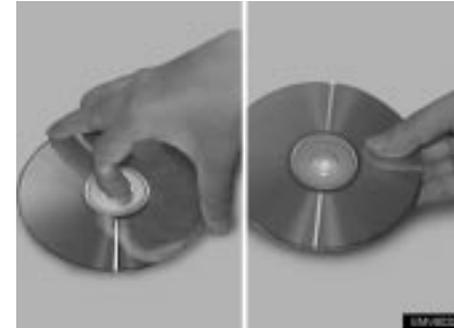
► **Labeled discs**



► **Low quality discs**

### NOTICE

*To prevent damage to the player or changer, do not use special shaped, low quality or labeled discs such as those shown in the illustrations.*



► **Correct**

► **Wrong**

- Handle compact discs carefully, especially when you set them into the magazine. Hold them on the edge and do not bend them. Avoid getting fingerprints on them, particularly on the shiny side.
- Dirt, scrapes, warping, pin holes, or other disc damage could cause the player to skip or to repeat a section of a track. (To see a pin hole, hold the disc up to the light.)

## Audio System

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**To clean a compact disc:** Wipe it with a soft, lint-free cloth that has been dampened with water. Wipe in a straight line from the center to the edge of the disc (not in a circle). Do not use a conventional record cleaner or anti-static device.