

## Foreword

**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 Toyota 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 efficient manners. The routes are generated from a large database that includes all roads contained in AAA state maps along with detailed street coverage for many major metropolitan areas. 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 53 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 35 through 37.**

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## Important information about this manual

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

 <b>CAUTION</b>
<p><b>This is a warning against something 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 avoid or reduce the risk to yourself and other people.</b></p>

<b>NOTICE</b>
<p><i>This is a warning against something 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 vehicle and its equipment.</i></p>

<b>INFORMATION</b>
<p><i>This provides additional information.</i></p>

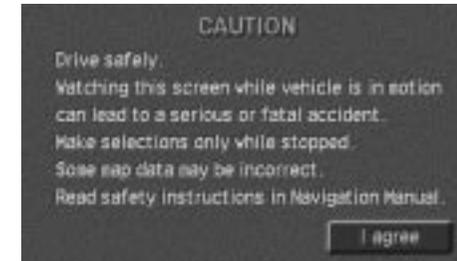
### Initial screen



When you start the engine or turn the ignition key to "ACC", the initial "TOYOTA" screen appears and the system begins operating.

 <b>CAUTION</b>
<p><b>When the vehicle is stopped with the engine running, always apply the parking brake for safety.</b></p>

After a few seconds, the "CAUTION" screen appears.

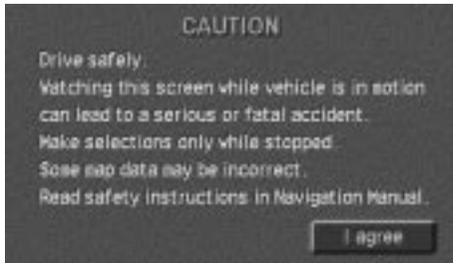


**Please read it and follow the instructions.**

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", "DEST" 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 Instruction



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.

 <b>CAUTION</b>
<ul style="list-style-type: none"><li>• <b>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.</b></li><li>• <b>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.</b></li></ul>

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 quality of a neighborhood, 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.**

We recommend that you obtain updated map data, when it becomes available, in order to help use the system as effectively and safely as possible.

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



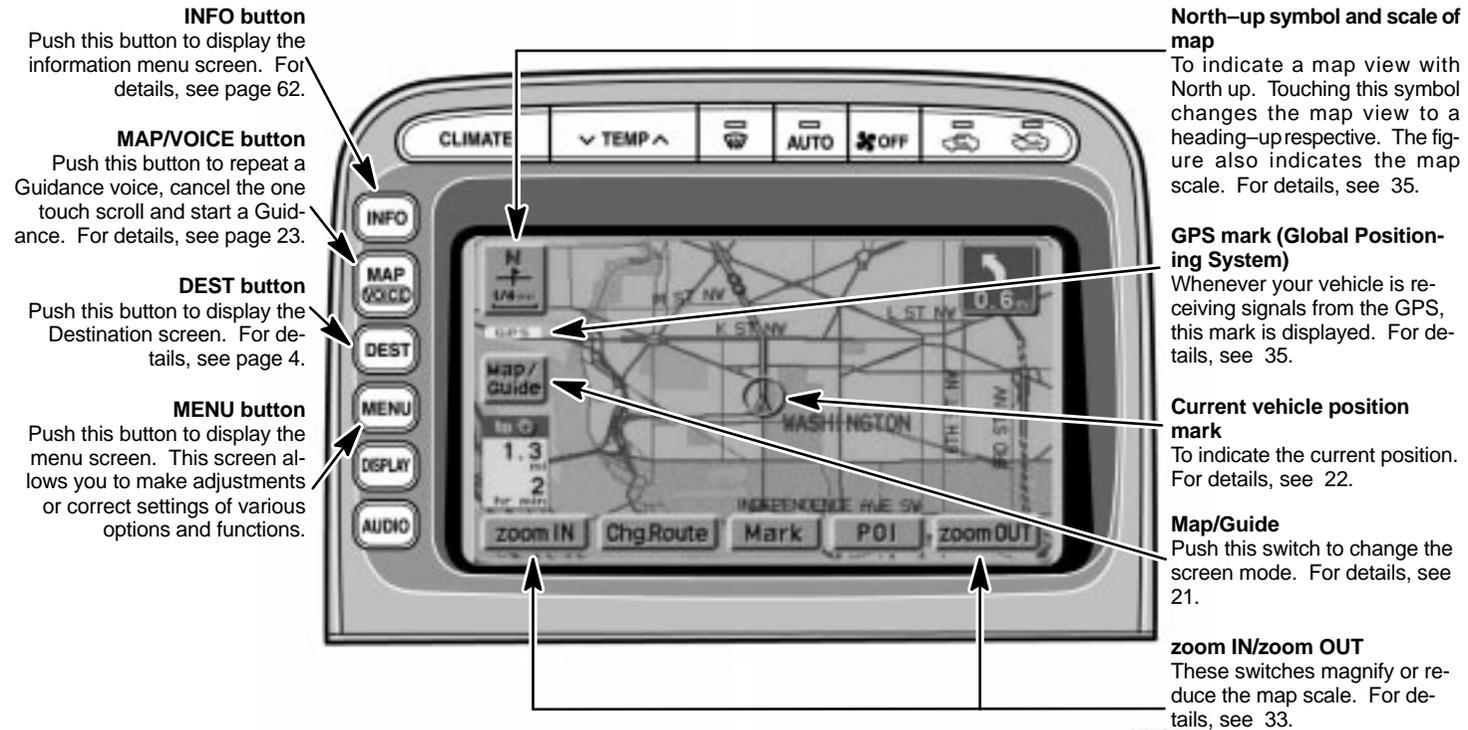
### Switch operation

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 on the bezel, a beep sounds.

#### ***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.*

## Symbols and Switches



UNC001



**Changing the route guidance**

When you touch this switch, the Change Route screen will appear. For details, see page 22.



**One – touch registration of marked point**

To register the current vehicle position as a marked point. For details, see page 50.



**Display of point of interest**

Symbols such as restaurants and hotels, etc. can be displayed on the screen. For details, see page 29.



**Deletion of point of interest**

Symbols such as restaurants and hotels, etc. displayed on the screen can be deleted. For details, see page 30.



**Heading-up symbol and scale of map**

On the map, the vehicle travel direction is up. The red arrow indicates North. Touching this symbol directly on the screen changes to the map to North-up. For details, see page 35.

# SECTION I

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## BASIC FUNCTIONS

### Descriptions of basic operations in frequent use

Inputting letters and numbers .....	2
How to move the cursor .....	3
Destination input Explains 10 ways to input your destination .....	4
<i>Explains 10 ways to input your destination</i>	
Entering destination .....	19
Route guidance screen .....	21
Current position display .....	22
Voice guidance .....	23
Typical voice guidance prompts .....	24
Registration of your home .....	26
Detour setting .....	26
Displaying points of interest .....	29
Turn list .....	31
Guidance screen .....	32
Map scale .....	33
Screen scrolling .....	34
Orientation of the map .....	35
Limitations of the navigation system .....	35
Map database information and updates .....	38

## Inputting letters and numbers

The navigation system operates by switches on the screen and on the bezel. When you touch a switch, 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.



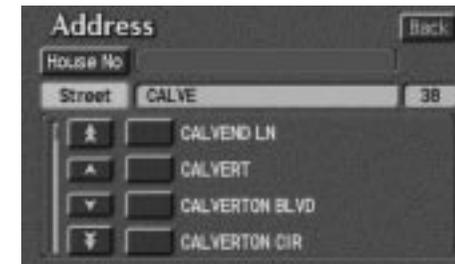
To type in an address etc., directly touch alphabet keys on the screen. If you touch a wrong letter, delete it using the  switch. Touching the  switch erases one letter.

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.



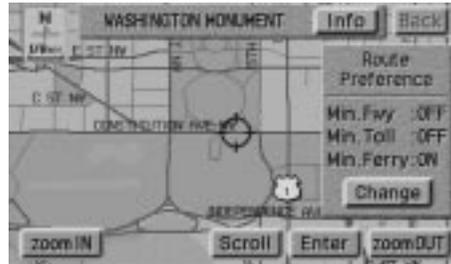
 To scroll up or down one item at a time.



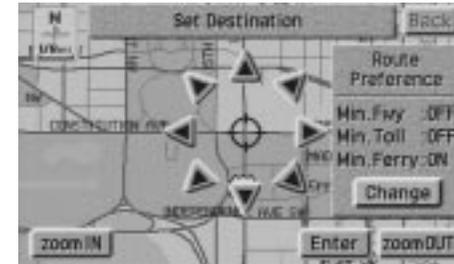
 This expresses a displayed screen position.

- ▶ If a ▶ or a ◀ appears to the right or left of the item name, the complete name is too long for the display. Touch the name, and the name will scroll to the end or beginning of the name.
- ◀

### How to Move the Cursor



1. Touch the "Scroll" 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 "DEST" button on the bezel and the "Destination" screen appears.



The destination screen allows you to select the region of the country to be searched for your destination.

**Touch the "Change" switch on the destination screen to display a map of the United States divided into 10 regions.**



Touch an area directly to select the search area and the destination screen returns.

Once you choose the region of the country to search, you can use one of 10 different methods to enter your destination.

**Address:** You can enter the house number, the street address and selected city of your destination. You can find your destination using various methods. See page 6 through 8 for the detailed steps.

**1. By Address:** You can input the house number and the street address by using the input keys. See page 6 for the detailed steps.

**2. 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 53 categories to choose from including restaurants, banks and automotive places. See page 8 for the detailed steps.

**3. 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 14 for the detailed steps.

**4. By Previous Destination:** You can select a destination from any of the last 10 previously set destinations. See page 14 for the detailed steps.

**5. By Home:** 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 15 for the detailed steps.

**6. 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 15 for the detailed steps.

**7. 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 16 for the detailed steps.

**8. By Freeway Entrance/Exit:** You can enter the name of the freeway (interstate) entrance or exit. See page 17 for the detailed steps.

**9. By Previous Starting Point:** You can enter a point where the system has started to guide last time. See page 19 for the detailed steps.

**10. By Map Selection:** You can select a destination simply by touching the location on the displayed map. See page 19 for the detailed steps.

### INFORMATION

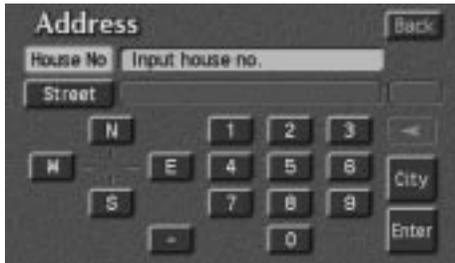
- *When inputting the destination, the response to the switch may be slow.*
- *"Point of Interest" are mainly registered in "Detailed map coverage areas". The registration is made based on the NavTech "Standard POI Inclusion List".*
- *If there is no point registered, switches such as "Marked Point", "Home", "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", "Point of Interest", "Freeway Entrance/Exit" or "Intersection" in a different region, 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 ADDRESS

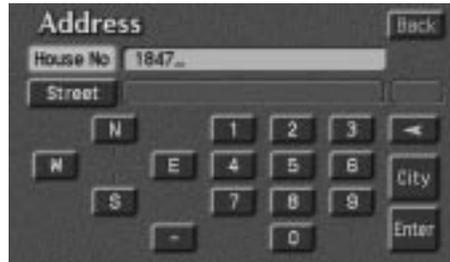


There are 2 ways to input a destination by address.

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

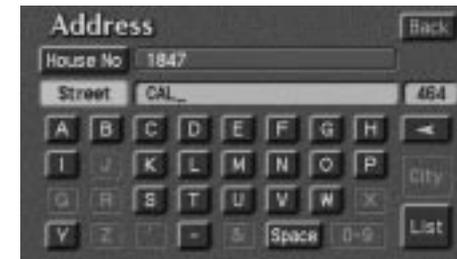
Touch the "Address" switch on the destination screen. The "Address" screen appears, and then you can input a house number.

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 inputted, 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.

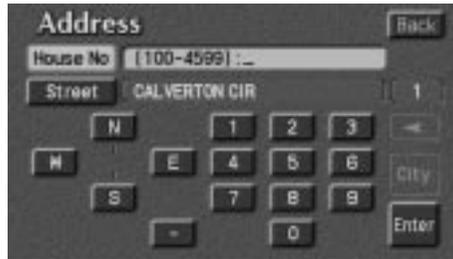
**When you input numerals, touch the "0-9" switch to display the screen for numeral input.**

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.



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 "Entering Destination" on page 19.)

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



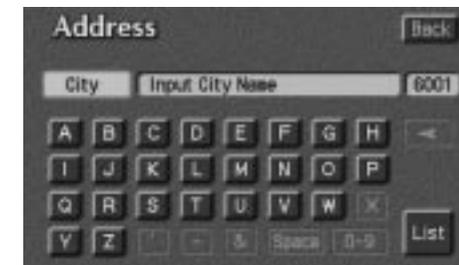
If you input a street name first, the screen changes. You can then input the house number.



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

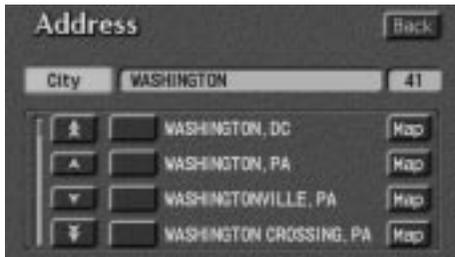
## (b) Inputting a city name

The screen for inputting a city name appears if you touch the "City" switch on the "Address" screen on page 6.



### Input a city name using alphabet keys.

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 house number. Input a house number and a street name. The screen changes and displays the map location of the selected destination and the route preference. (See "Entering Destination" on page 19.)

**Map:** If you touch this switch, the screen changes and displays the map location of the selected city and the route preference. (See "Entering Destination" on page 19.)

### Destination Input by POINT OF INTEREST

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

(a) Input the name of the point of interest directly.

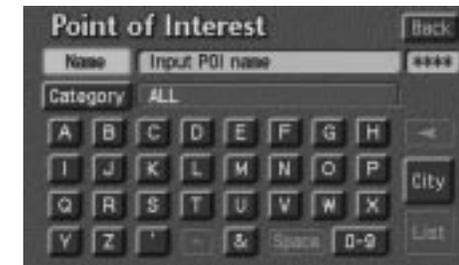
(b) Inputting a city name first.

(c) Selecting from the points of interest 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 of the point of interest directly

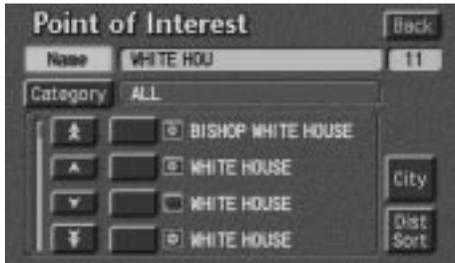
Touch the "Point of Interest" switch on the destination screen.



The "Point of Interest" 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.

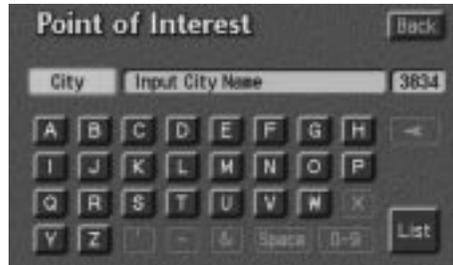


Touch the  of your desired destination. The screen changes and displays the map location of the selected destination and the route preference. (See "Entering Destination" on page 19.)

If the same name exists in more than one city, you can search it more easily with the "City" and "Category" switch. (See (b) Inputting a city name and (c) Selection from the Points of Interest categories.)

### (b) Inputting a city name

Touch the "City" switch on the point of interest screen.



Touch alphabet keys directly on the screen to input a city 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 the selection list. Touch the  of the desired city name.

After entering the city name, input the name of the point of interest.

### (c) Selection from the Points of Interest categories

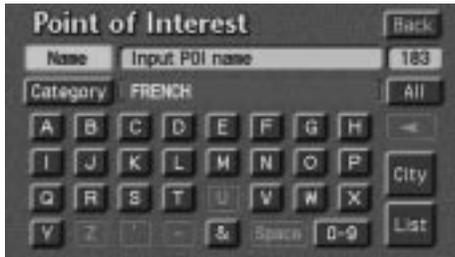
Touch the "Category" switch on the point of interest screen.



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



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



Once you have selected a category, 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.

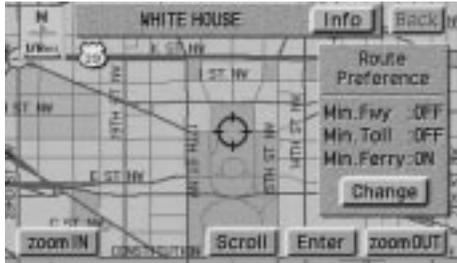
If the number of sites becomes 4 or less, or if you touch the "List" switch at the bottom right of the screen, the screen changes and displays a list of sites.



If you do not know the name of the specific point of interest, for example, when you are trying to find the nearest restaurant, touch the "Dist Sort" switch at the bottom of the screen. A listing of all the items in the category is displayed based on the distance from your current location.



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 19.)



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 29.)*

**LIST OF POINTS OF INTEREST**



**ALL AUTOMOTIVE**



**AUTOMOBILE CLUB**



**AUTO SERVICE & MAINTENANCE**



**GAS STATION**



**LEXUS DEALERSHIPS**  
(all search areas)



**PARKING GARAGE/HOUSE**



**PARKING LOT**



**TOYOTA DEALERSHIPS**  
(all search areas)



**ALL BANKING**



**ATM**



**BANK**



**ALL COMMUNITY**



**CITY HALL**



**CIVIC/COMMUNITY CENTER**



**CONVENTION/EXHIBITION CENTER**



**COURT HOUSE**



HIGHER EDUCATION



HOSPITAL



LIBRARY



POLICE STATION



SCHOOL



**ALL ENTERTAINMENT &  
ALL RECREATION**



AMUSEMENT PARK  
(all search areas)



CASINO



GOLF COURSE



MARINA



MUSEUM



PARK/RECREATION  
(all search areas)



PERFORMING ARTS



SKI RESORT



SPORTS COMPLEX



TOURIST ATTRACTION  
(all search areas)



WINERY



**RESTAURANT**



AMERICAN



CHINESE



CONTINENTAL



FRENCH



ITALIAN

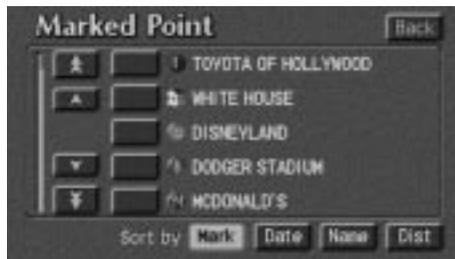


JAPANESE

	MEXICAN		BUS STATION		TOURIST INFORMATION
	SEAFOOD		COMMUTER RAIL STATION		TRAIN STATION
	OTHER		FERRY TERMINAL		<b>ALL OTHER</b>
	<b>ALL SHOPPING</b>		HISTORICAL MONUMENTS		BUSINESS FACILITY
	GROCERY STORE		HOTEL		CITY CENTER/NAMED PLACE
	SHOPPING		PARK AND RIDE		
	<b>ALL TRAVEL</b>		RENTAL CAR AGENCY		
	AIRPORT (all search areas)		REST AREA		

## Destination Input by MARKED POINT

Touching the "Marked Point" switch on the destination screen displays your list of registered marked points. See page 46 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 19.)

There are 4 ways to list the marked point by touching switches on bottom of the screen.

**Sort by Mark:** Touch this switch to list the marked points by the registered icon. There are 16 different normal purpose icons, 5 special purpose icons and 3 sound icons. (For details, see page 48.)

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

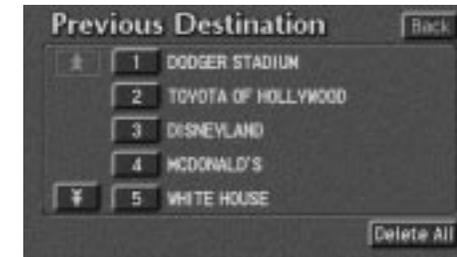
**Sort by Name:** Touch this switch to list the marked points in alphabetical order.

**Sort by Dist:** Touch this switch to list the marked points in order of shorter distance from your current location.

While driving, only special purpose icons will be shown on the screen.

## Destination Input by PREVIOUS DESTINATION

Touch the "Previous Destination" switch on the destination screen.



The screen lists to 10 previously set destinations. During driving, the screen lists 5 previously set destinations.

**Select your desired destination. The screen changes and displays the map location of the selected destination and the route preference. (See "Entering Destination" on page 19.)**

You can delete the list of previous destinations while you stop your car, if you no longer need them. However, the system must delete the complete list and does not allow removing single entries.

**When you touch the "Delete All" switch, a message appears to confirm your request to delete the list. If you are sure, touch the "YES" switch. If not, touch the "NO" switch.**

### Destination Input by HOME

Touch the **"Home"** switch on the destination input screen.

**The screen changes and displays the map location of your home and route preference. (See "Entering Destination" on page 19.)**

The system starts the guidance from your current position to your home immediately after you touch the **"Home"** switch during driving.

If your home is not registered yet, the **"Home"** switch is dimmed.

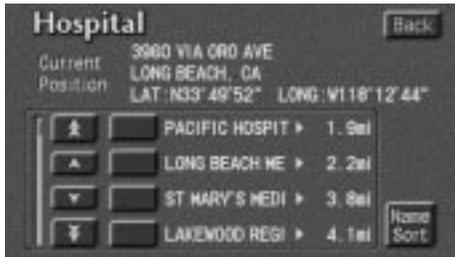
For the steps to register your home, see "Registration of your home" on page 26.

### Destination Input by EMERGENCY

By touching the **"Emergency"** switch on the destination input screen, the display changes to a screen to select police stations, hospitals or dealers. 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  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 19.)**

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 while route guidance is unavailable. (See page 38.)*

### Destination Input by INTERSECTION

Touch the **"Intersection"** switch on the destination screen.

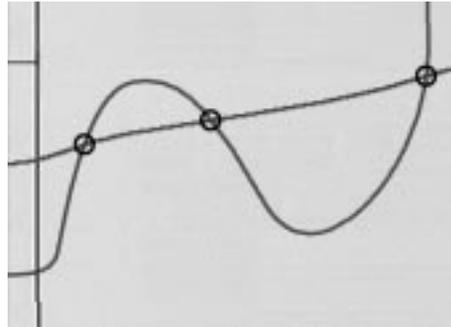


**Input the name of the two intersecting streets which are located near the destination to be set.**

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 "Entering Destination" on page 19.)



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 "Entering Destination" on page 19.)

## Destination Input by FREEWAY ENTRANCE or EXIT

To input a freeway entrance or exit, touch the "Fwy Entrance/Exit" switch on the destination input screen.



Be sure to use the complete name of the freeway or highway, 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 .



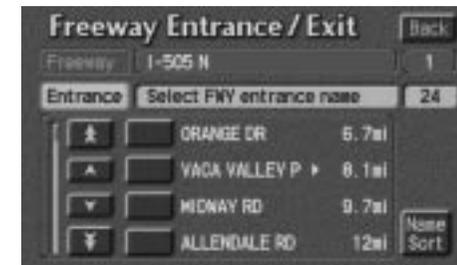
You can then select either a freeway "Entrance" or "Exit".



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 "Entering Destination" on page 19.)

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 "Entering Destination".)

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 of the current position and the route preference. (See "Entering Destination".)

### Entering Destination

After you input the destination by one of the ten methods, 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 3.)

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 **“On”** switch of **“Minimize Freeway Use”** 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 **“On”** switch of **“Minimize Toll Road Use”** to search for a route other than toll roads as much as possible.

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

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



During the route search, **“Route Searching”** appears at the top of the screen and changes color from the left. When the search is completed, three types of routes are displayed on the screen.



Touch the **“Next”** switch to choose one from the three routes.

**Route 1:** A route on which you can reach the destination in the shortest time.

**Route 2:** A route on which you can reach the destination in the shortest distance.

**Route 3:** Other route.

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

If you want to set a way point between the starting point and the destination or change the search condition, touch the **“Chg. Route”** switch. The screen changes and displays the change route menu. (For details, see page 22.)

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

## Route Guidance Screen

The route guidance system displays two different screen modes.



**Single screen:** Only map is shown in a screen mode.



**Split screen:** Map and guidance screen are shown in a screen mode. (For detail about Guidance screen, see page 33.)

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

**Map/Guide:** To change two screen modes.

**[GPS]:** Upon reception of signals from the GPS (Global Positioning System), this mark appears. (For details, see page 35.)

**zoom IN / zoom OUT:** Magnifies or reduces the map scale. (For details, see page 33.)

**POI:** Touch this switch, and symbols of points of interest are shown on the screen. (For details, see page 29.)

**Mark:** Touch this switch for one-touch registration of the marked point. (For details, see page 50.)

### INFORMATION

- *The distance up to your destination appears at the left of the screen.*
- *The time to your destination can also be displayed. (For the setting steps, see page 60.)*

**Chg. Route:** The "Change Route" screen appears and the following settings are available.



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

**Detour:** To change the condition for Detour. (For details, see page 28.)

**Way point:** To set and delete a way point. (For details, see page 51.)

**Route Preference:** To change the conditions of the route preference. (For details, see page 19.)

**Cancel Guidance:** To stop the route guidance. When you touch this switch, the map screen appears.

### 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.*

### 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 on the bezel.

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 34 for details), the current vehicle position mark continues to track your current location.

### 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 on the bezel 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 56.

## Voice Guidance

**Voice route guidance to the destination 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 on the bezel to display the menu screen. Then touch any number at the bottom of the screen to select the desired volume. If you do not need voice guidance, touch the "OFF" switch.

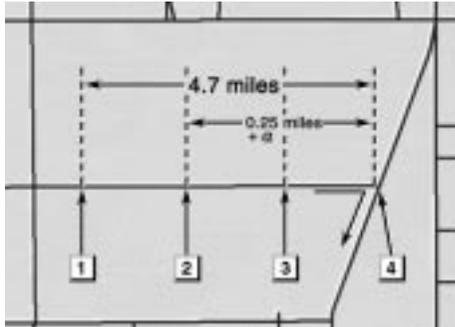
The selected item is highlighted in green.

You can listen to "Voice route guidance" by pushing the "MAP/VOICE" button on the bezel, even if the volume is "OFF".

### INFORMATION

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

## Typical Voice Guidance Prompts

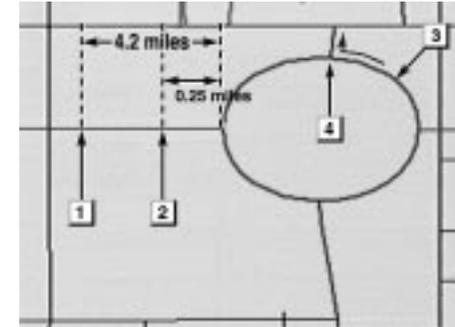


The voice guidance provides various messages as you approach an intersection, or other point where you need to maneuver the vehicle.

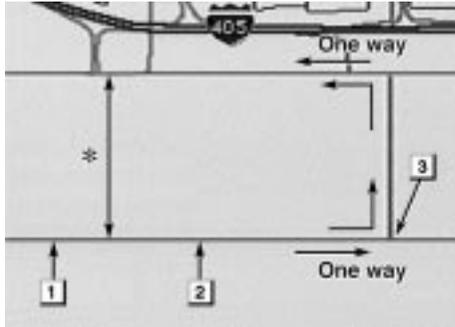
- 1 "Proceed about 5 miles to the T-intersection."
- 2 "In a quarter of a mile, right turn at the T-intersection."
- 3 "At the T-intersection, right turn."
- 4 Beep sound only

### 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.*

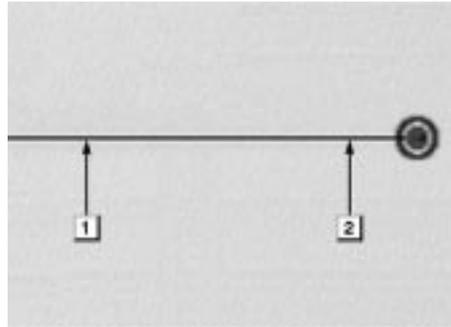


- 1 "Proceed about 4 miles to the traffic circle."
- 2 "In a quarter of a mile, traffic circle ahead, and then right turn 3rd exit ahead."
- 3 "Next exit right."
- 4 Beep sound only.



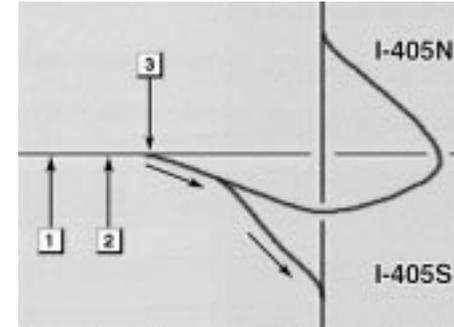
\*: The system indicates a U-turn if the distance between two one-way roads (of opposite directions) is less than 15 m (50 ft.) in residential areas or 50 m (164 ft.) in non-residential areas.

- 1 🎵 "In half of a mile, make a legal U-turn."
- 2 🎵 "Make a legal U-turn."
- 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. Your route guidance is now finished."



When information is available in the database, the voice guidance provides lane information when entering or exiting a freeway or interstate.

- 1 🎵 "In 2 miles, 405 freeway on the right."
- 2 🎵 "405 freeway on the right and then keep right onto 405 freeway south."
- 3 🎵 Beep sound only.

### 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 on the bezel to hear it again.*

### Registration of Your Home

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



1. Push the "MENU" button on the bezel to display the menu screen and touch the "Marked Point" switch.



2. Touch the "Register" switch of Home for registering your home.

If home is already registered, the "Register" switch is dimmed.



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

**(a) Registering by current position**

When you select this method, the current vehicle position is immediately registered as your home. This is the fastest method to use if you are at your house.

**(b) Registering by street address**

If you are away from your home, you can input your home address.

Input the address of the your home in the same way as any destination input. (See page 6.)

**(c) Registering by map**

If you are close to your home, you can register the location of your home directly on the map.

Input your home in the same way as the destination input. (See page 19.)

**(d) Deleting the registration of your home**

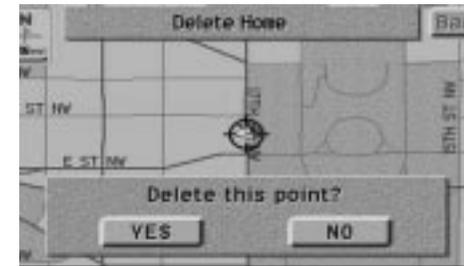


1. Push the "MENU" button on the bezel to display the menu screen and touch the "Marked Point" switch.



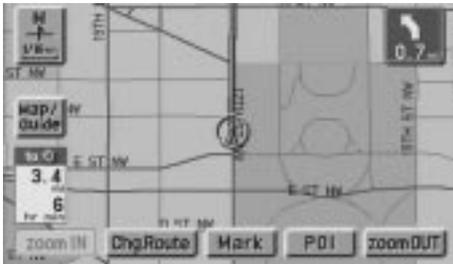
2. Touch the "Delete" switch of Home.

The screen changes and displays the map location of the home and a message. If you are sure that you want to delete, touch the "YES" switch. If not, touch the "NO" switch.

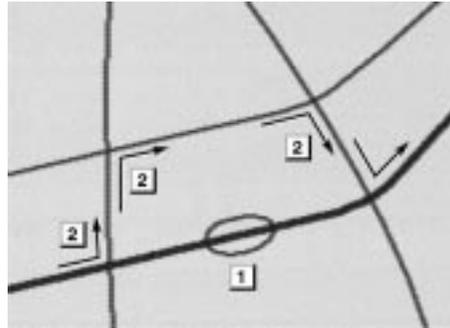


## Detour Setting

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.

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

### 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 Points of Interest

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.



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



**All List:** If you cannot find your desired point of interest on the limited choice screen, touch this switch. The screen then displays the complete "Point of Interest" listing screen.



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

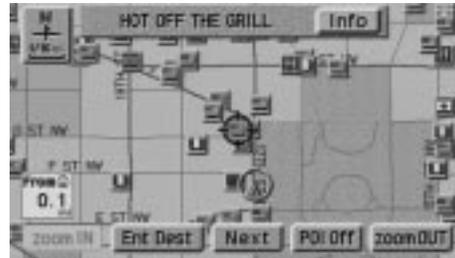
**Local POI Search:** If you want to search the nearest point of interest, touch this switch. Then choose one of the categories. The system will list the points within 20 miles.

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

**To turn off the symbols of the points of interest on the map screen, touch the "POI Off" switch.**

### Setting a POI as a destination

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



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

The map will shift so the symbol is centered in the screen and overlaps with the cursor .

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. The distance from your current position can be displayed at the bottom left of the screen.

**When your desired point of interest overlaps with the cursor, touch the "Ent Dest" switch. The screen changes and displays the map location of the selected destination and route preference. (See "Entering Destination" on page 19.)**

If the symbols of two or more points of interest overlap as they are close to each other in location, touch the "Next" switch to bring your desired mark in front of the others.

## Turn List

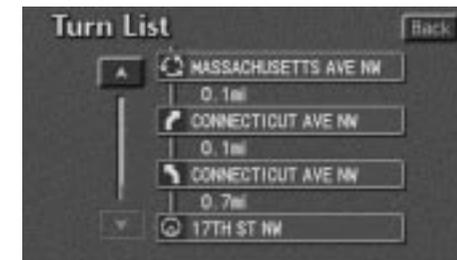
You can change from the map screen to a "Turn List" screen that displays the list of the roads up to your destination. This list can be used for a route guidance.



1. Push the "MENU" button on the bezel to display the menu screen and touch the "Route Information" 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  . 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 a mileage to the next turn.



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

### INFORMATION

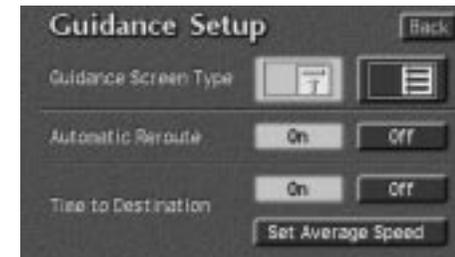
- *The current vehicle position mark appears at the bottom of the screen next to the name of the street you are driving on. The mark does not move.*
- *If you leave the guidance route, the name of the street you are on is not shown on the list next to the current vehicle position mark.*
- *If the road 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 on the bezel to return to the map display with a route guidance.*

### Guidance Screen

You can change half of the screen to the Guidance Screen by touching the "Map/Guide" switch while the map screen is displayed. You can choose one out of two types of Guidance Screen.



1. Push the "MENU" button on the bezel to display the menu screen and touch the "Guidance Setup" switch.



2. The screen will change to the Guidance setup screen and you can select the "Guidance Screen Type".



To display Arrow Screen



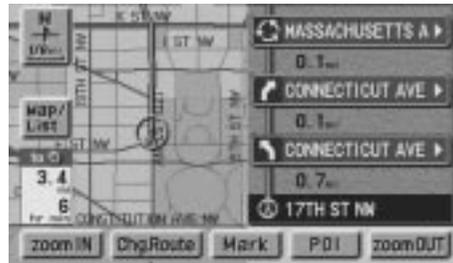
To display Turn List Screen

### Arrow Screen



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

### Turn List Screen



The screen shows the Turn List. You cannot scroll through the list of roads.

### Map Scale



Touch the **"zoom IN"** switch or the **"zoom OUT"** 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 1/16th of a mile to 64 miles. Touch the **"zoom IN"** switch or the **"zoom OUT"** 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.

### **INFORMATION**

*When the map scale is at the maximum range of 64 miles, the "zoom OUT" switch is dimmed. When the map scale is at the minimum range of 1/16th mile, the "zoom IN" switch is dimmed.*

### **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 "Ent Dest" switch on the screen.

If a destination is already registered, you can enter a way point.

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 function operates.

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 on the bezel, 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. At this time, if the nearest road is over 3 miles from destination point, the system may not be able to calculate a guidance route.*

## Orientation of the Map



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, an 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 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.

**(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 56.*

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

- When turning at a wrong intersection off the designated route guidance.
- If you are heading for a destination without passing through a set way point, automatic rerouting may display a route returning to the set way point.
- 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 automatic rerouting during high speed driving. In automatic rerouting, a detour route may be shown.
- During automatic rerouting, the route may not be changed.
- The route in a U-turn may be shown or announced.
- A location may have multiple names and the system will announce one or more.

- 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), contact your dealer.**

This navigation system uses the tire turning data and is designed to work with factory-specified tires for your Toyota. Installing tires that are larger or smaller than the originally equipped diameter may cause inaccurate display of the vehicle's position. The tire pressure also affects the diameter of the tires so please make sure the tire pressure of all four tires is correct.

### Map Database Information and updates

Map database is made based on the maps, 1999 edition of DENSO, whose information source comes from NavTech maps and GDT maps.

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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 completed. 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.



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 dealer for updating a map database.



**System Option:** To determine which version of the database is currently in your vehicle, touch the **"System Option"** switch on the "Menu" screen. The "System Option" screen appears and displays the map database version date. Contact your dealer to find out if there is a more recent update released.

### Route guidance availability



Route guidance availability



1999 by NavTech  
Route guidance available areas  
Route guidance available for main roads only

Route guidance availability



1999 by NavTech  
Route guidance available areas  
Route guidance available for main roads only

Route guidance availability



1999 by NavTech  
Route guidance available areas  
Route guidance available for main roads only

Route guidance availability



1999 by NavTech  
Route guidance available areas  
Route guidance available for main roads only

Route guidance availability



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Route guidance available for main roads only

Route guidance availability



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Route guidance available areas  
Route guidance available for main roads only

Route guidance availability



1999 by NavTech  
Route guidance available areas  
Route guidance available for main roads only

Route guidance availability



1999 by NavTech  
Route guidance available areas  
Route guidance available for main roads only



***INFORMATION***

*For the up-dated map DVD-ROM, contact your Toyota dealer.*

# SECTION II

---

## ADVANCED FUNCTIONS

### Descriptions of functions for more effective use

- Marked points ..... 46
- Way points ..... 51
- Avoid point/area ..... 53
- Current position calibration ..... 56



## 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



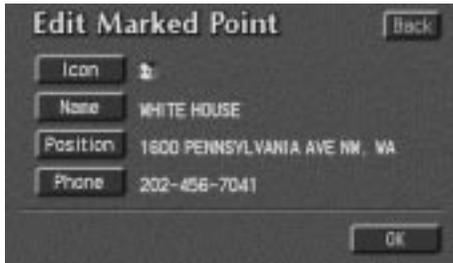
1. Push the "MENU" button on the bezel to display the menu screen and touch the "Marked Point" switch.



2. Touch the "Register" switch of the Marked Point.



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 6 through 19.



When you finish registration of the marked point, the "Edit Marked Point" screen appears. The information shown depends on the method used to enter the marked point.

If you want to change the icon or name or enter a telephone number, touch the item to be edited (on the left side of the screen).

3. Touch the "OK" switch.

**INFORMATION**

*Up to 100 marked points can be registered.*

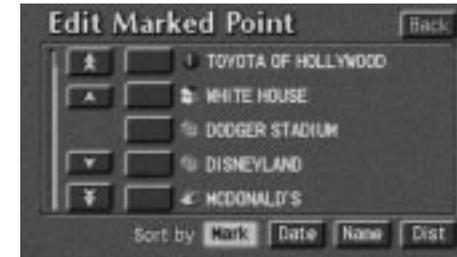
### (b) Editing marked points

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

1. Push the "MENU" button on the bezel to display the menu screen and touch the "Marked Point" switch.



2. Touch the "Edit" switch.



The screen lists the marked points.

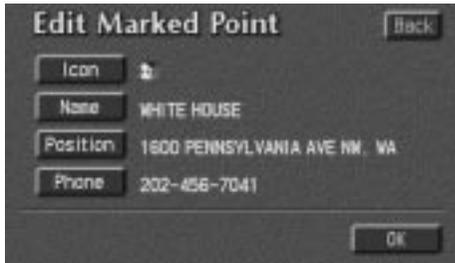
**Sort by Mark:** Touch this switch to list the marked points in order of the type of symbol.

**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.

**Sort by Dist:** Touch this switch to list the marked points in order of nearest place from your current location.

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



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

- Editing an "Icon"



Touch your desired icon.

**Special Purpose Icon:** During driving, only special purpose icons can be selected in the marked point list. You can register up to 5.

**Sound Icon:** When you set on these icons, the buzzer sounds as your vehicle approaches them.

When you touch the desired symbol or "Back", the previous screen is displayed.

- Editing a "Name"

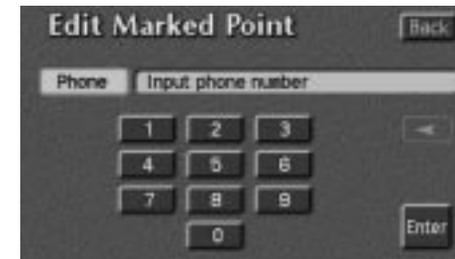


Touch alphabet or numeral keys directly to input the name.

After you finish your entry, touch the "Enter" switch at the bottom right of the screen.

The previous screen will be displayed.

- Editing a "Phone" (telephone number)

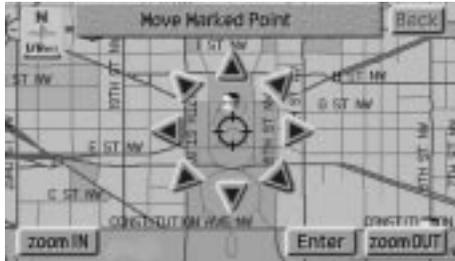


Touch numeral keys directly.

After you finish your entry, touch the "Enter" switch at the bottom of the screen.

The previous screen will be displayed.

- Editing a "Position" (position/map location).



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

Touch the "Enter" switch when the cursor  moves to your desired point.

The previous screen will return.

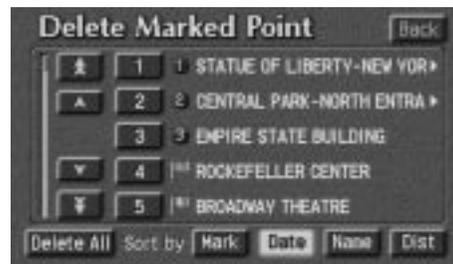
After you finish any editing, touch the "OK" switch.

### (c) Deleting marked points

1. Push the "MENU" button on the bezel to display the menu screen and touch the "Marked Point" switch.

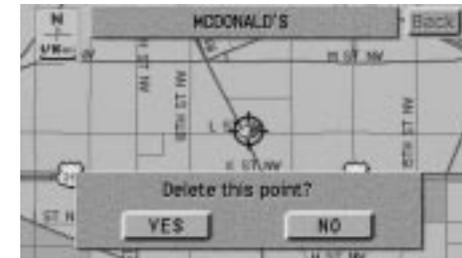


2. Touch the "Delete" switch of the marked point.



3. Touch  of the marked point to delete. If you want to delete all of the marked points, touch the "Delete All" switch.

To delete only specified marked points, use the "Mark", "Date", "Name" or "Dist" switch to display the screen, so that you can easily find the marked points.

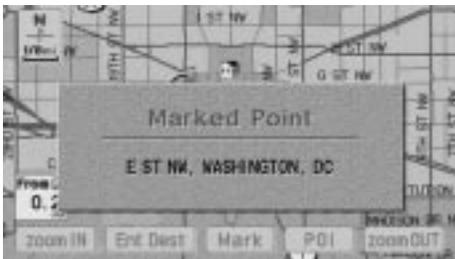


Either of the above messages appears depending on the type of deletion. If you want to delete, touch the "YES" switch. To cancel the deletion, touch the "NO" switch.

**(d) One-touch marked point registration**



You can register your current position or any points (See "Screen Scrolling" on page 34.) from the map screen by touching the "Mark" switch.



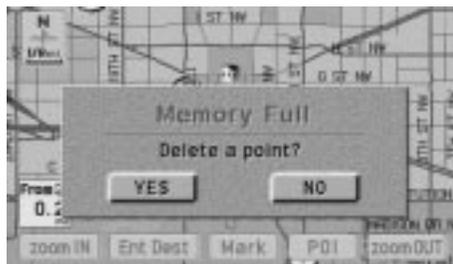
When you touch the "Mark" switch, the above screen appears for a few seconds, and then the map screen returns.



The registered point is shown by ■ on the map.

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

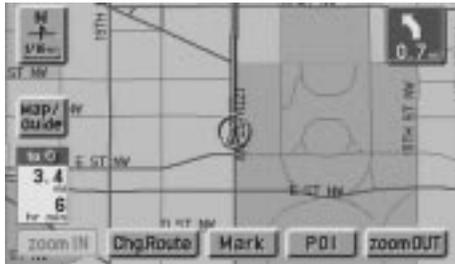
You can register up to 100 marked points. If you attempt to register more than 100, a message appears for confirmation.



If you want to register a new point, touch the "YES" switch and delete several old points. See "Deleting marked points".

If you do not want to delete the points already registered, touch the "NO" switch.

## Way Points



You can set way points during route guidance. Touch the "Chg. Route" switch to display the following screen.



### (a) Setting a way point

1. Touch the "Set" switch.



2. Enter your way point in the same way as you input any destination. (See page 6 through 19.)

The set way point is indicated by  through .

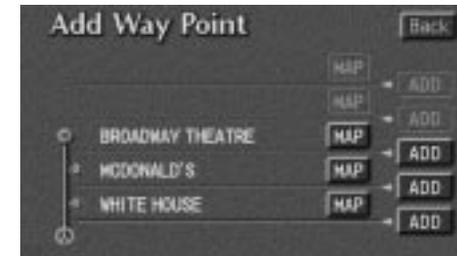
### INFORMATION

*If some way points are already registered on the route, "Add" instead of "Set" is displayed.*

After entering a way point, the screen changes and displays the map location of the way point and route preference. (See "Entering Destination" on page 19.)

### (b) Adding a way point

1. Touch the "Add" switch to display the Add Way Point screen.



2. Select the section of your route where you want to add a way point and touch the "ADD" switch.

**MAP:** If you touch this switch, you can confirm the set way points already registered on the map screen.



3. Add a way point in the same way as you input the destination.

You can set up to 5 way points.

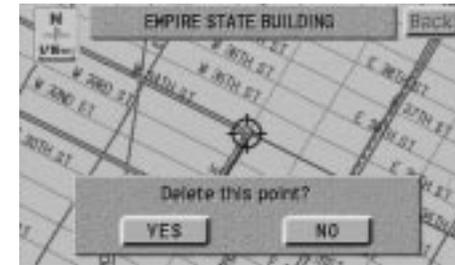
After adding a way point, the screen changes and displays the map location of the way point and route preference. (See "Entering Destination" on page 19.)

### (c) Deleting a way point

1. Touch the "Delete" switch to display the Delete Way Point screen.



2. Select the way point you want to delete and touch the "Delete" switch.



3. A selected point and above message appear. To delete the point, touch the "YES" switch. If you want to try again or cancel the deletion, touch the "NO" switch. The previous screen will return.

#### **INFORMATION**

*When the vehicle is in motion, "Delete Next" instead of "Delete" is displayed.*

**(d) Deleting the next way point**



When the vehicle is in motion, only the next way point can be deleted. Touch the "Delete Next" switch.

**Avoid Point/Area**

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

Push the "MENU" button on the bezel to display the menu screen and then touch the "Avoid Point/Area" 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 avoid area or the route calculation cannot be made without running through the avoid area, a route passing through the avoid area may be shown.*

**(a) Registering avoid point/area**

1. Touch the "Register Avoid Point/Area" switch.

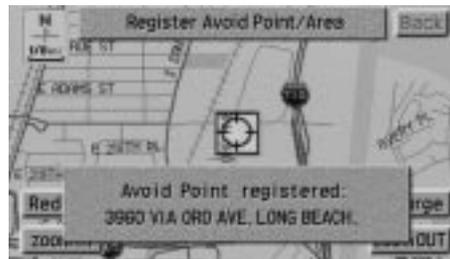


2. Enter the avoid point location in the same way as you input any destination or display the map of the area you want to avoid. (See page 6 through 19.)



3. Depending on the contents to be edited, touch either the "Reduce" or "Enlarge" switch or one of the arrows.

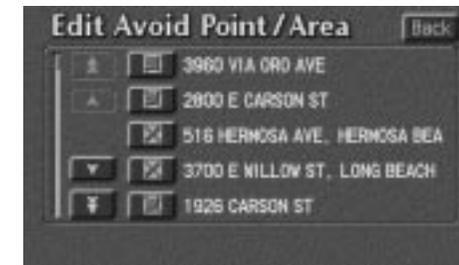
When you touch the "Enter" switch, the following message appears.



After a few seconds, the avoid point/area screen returns.

**(b) Editing avoid points**

1. Touch the "Edit Avoid Point/Area" switch to display the Edit Avoid Point/Area screen.



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



3. Depending on the contents to be edited, touch either the "Reduce" or "Enlarge" switch or one of the arrows.

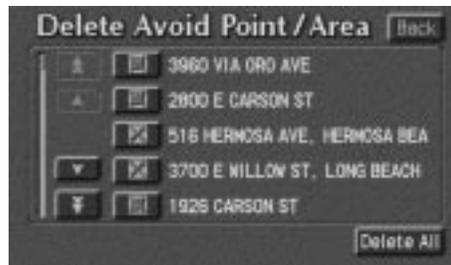
When editing is completed, touch the "Enter" switch.

### INFORMATION

- If you try to change the map to an inappropriate scale, a message appears.
- For enlargement or reduction of the map scale, see page 33.

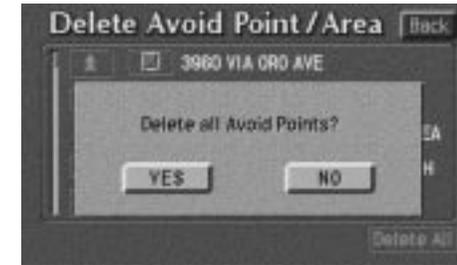
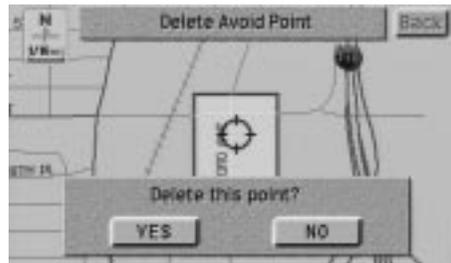
### (c) Deleting avoid point/area

1. Touch the "Delete Avoid Point/Area" switch to display the Delete Avoid Point/Area screen.



2. Select the point you want to delete from the list.

**Delete All:** All avoid points registered in the system are deleted.



3. Either of the above messages appears.

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.

## 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 on the bezel to display the "Menu" screen, and then touch the "System Option" switch.

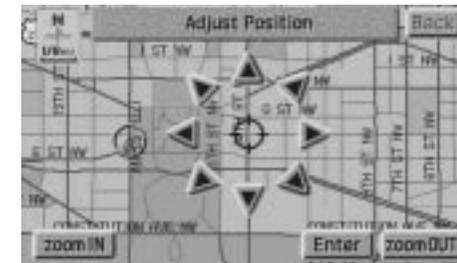


2. Touch the "Position" switch.

### **INFORMATION**

*For additional information on current position accuracy, see "Limitations of the Navigation System" on page 35.*

## • Position



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

Touch the "Enter" switch.



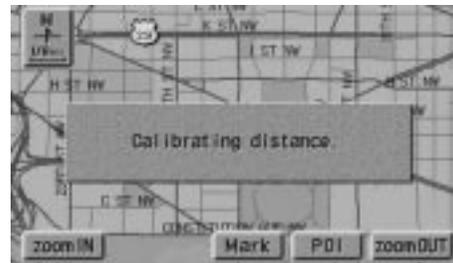
2. Touch either the left or right arrow to correct the direction of the current vehicle position mark on the road.

Touch the "Enter" switch on the screen and the map screen returns.

## • Distance

The distance 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 "Distance" switch on the System Option screen.



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



# SECTION *III*

---

## MORE ADVANCED FUNCTIONS

### Convenient features

- Automatic rerouting ..... 60
- Time to destination ..... 60
- Maintenance information ..... 62
- Dealer setting ..... 64



## Automatic Rerouting

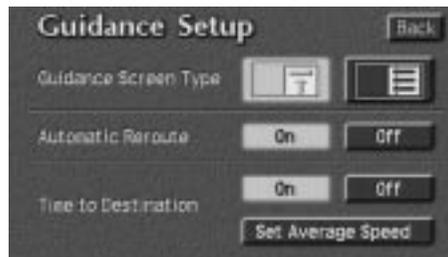
When the "Automatic Rerouting" feature is turned on, the system will automatically search for a new route to the destination if you leave the guidance route. This feature does not operate while you are driving on roads where the guidance is not available.

To turn the "Automatic Reroute" mode on:

1. Push the "MENU" button on the bezel.



2. Touch the "Guidance Setup" switch.



3. Touch the "On" switch on the right of "Automatic Reroute".

Selected switch is highlighted in green.

### 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.*

## Time to Destination

When the "Time to Destination" feature is turned on, the time required to reach the destination is displayed on the route guidance screen.

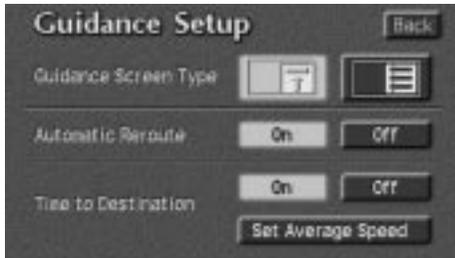


To turn the "Time to Destination" mode on:

1. Push the "MENU" button on the bezel.



2. Touch the "Guidance Setup" switch.



3. Touch the "Set Average Speed" switch on the "Guidance Setup" screen.



4. 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.

5. After you finish setting the desired speeds, touch the "Enter" switch.

6. The guidance setup screen returns. Touch the "On" switch on the right of "Time to Destination".

Selected switch is highlighted in green.

<b>INFORMATION</b>
<ul style="list-style-type: none"> <li>• <i>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.</i></li> <li>• <i>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.)</i></li> <li>• <i>Up to 99 hours 59 minutes can be displayed.</i></li> </ul>

## 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 63.) 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 "Don't display again" switch.



1. Push the "INFO" button on the bezel to display the information menu screen, and then touch the "Maintenance" switch.



2. Touch your desired icon and input the conditions.



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

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

After you input that information, touch the "OK" switch. The screen then returns to the "Maintenance" screen. The icon's color will change to green after the date and 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 screen.

**Delete All:** Cancel all conditions which have been inputted.

**Reset Expired:** Reset an item which has satisfied a condition.

Touch the "OFF" switch at the top of the screen, and the information screen will no longer be displayed.

**INFORMATION**

- *For scheduled maintenance information, please refer to the "Scheduled Maintenance Guide" or "Owner's Manual Supplement".*
- *Depending on your driving or the road conditions, the system may have a time-lag between the data which have been inputted and the actual date and driving distance.*

**Information Items**



Scheduled Maintenance



Oil Change



Replace Oil Filter



Rotate Tires



Replace Tires



Replace Battery



Replace Brake Pad



Replace Wiper Blades



Replace Engine Coolant



Replace Brake Fluid



Replace Automatic Transmission Fluid



Replace Air Conditioning Filter



Replace Air Cleaner Filter



Wedding Anniversary



Birthday

## Dealer Setting



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

## (a) Registering dealer



1. Touch the "Register Dealer" switch.  
2. Enter your dealer's location address in the same way as you input any destination. (See page 6 through 19.)



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

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

By touching the "Go to Dealer" switch the system sets your dealer as a destination. (See (d) Going to dealer.)

**(b) Editing dealer**



1. Touch the "Edit Dealer" switch.



2. Touch the item to edit.

• Editing a "Dealer" or a "Staff"



Touch alphabet or numeral keys directly to input the name.

After you finish your entry, touch the "Enter" switch at the bottom right of the screen. The previous screen will be displayed.

• Editing a "Position"



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

Touch the "Enter" switch when the cursor moves to your desired point.

The previous screen will be displayed.

- Editing a "Phone" (telephone number)



Touch numeral keys directly.

After you finish your entry, touch the "Enter" switch at the bottom of the screen.

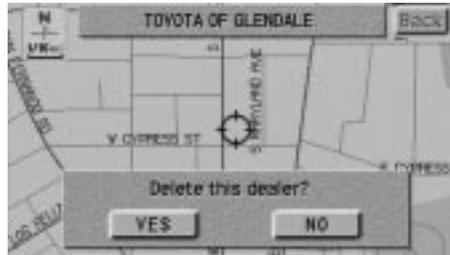
The previous screen will be displayed.

After you finish any editing, touch the "OK" switch.

### (c) Deleting dealer



1. 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.

### (d) Going to dealer

The registered dealer can be set as a destination.



Touch the "Go to Dealer" switch. The screen changes and displays the map location of the registered dealer and the route preference. (See "Entering Destination" on page 19.)

# **SECTION IV**

---

## **OTHER FUNCTIONS**

Screen transition .....	68
Screen adjustment .....	68

## Screen Transition



The function returning to the previous screen from the audio or air conditioner screen is selectable. Select the "ON" or "OFF" and then touch the "OK".

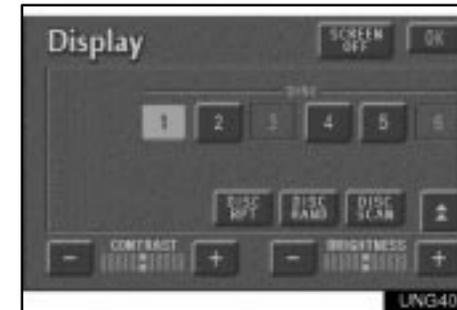
**ON:** The previous screen automatically returns from the audio or air conditioner screen 20 seconds after the end of audio operation.

**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.



#### Color and tone adjustment

You can adjust the color and the tone while the DVD video and Video CD are being played.

#### **COLOR "RED":**

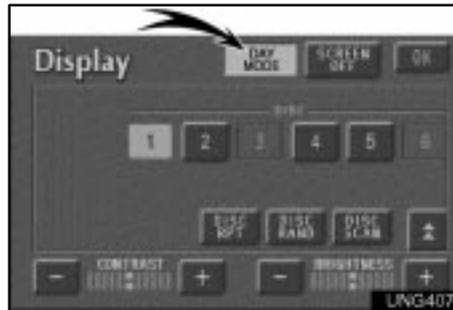
Strengthens the red color of the screen.

#### **COLOR "GREEN":**

Strengthens the green color of the screen.

**TONE "+":** Strengthens the tone of the screen.

**TONE "-":** Weakens the tone of the screen.



**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 head light 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.



# **SECTION V**

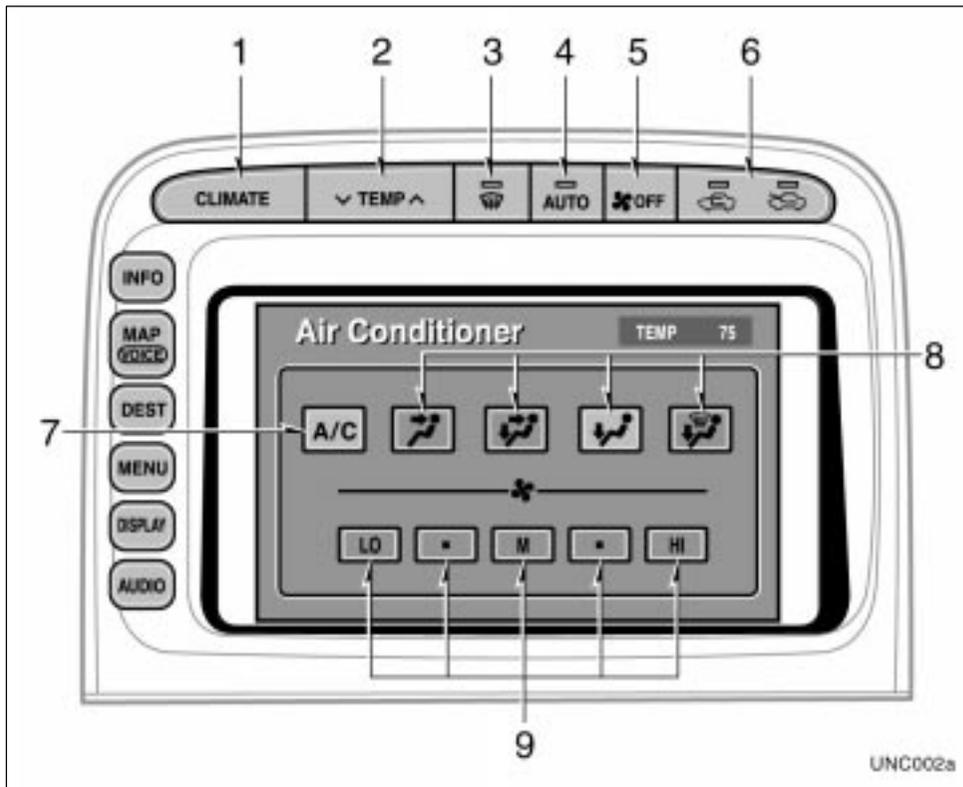
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## **AIR CONDITIONING**

Automatic air conditioning controls ..... 72

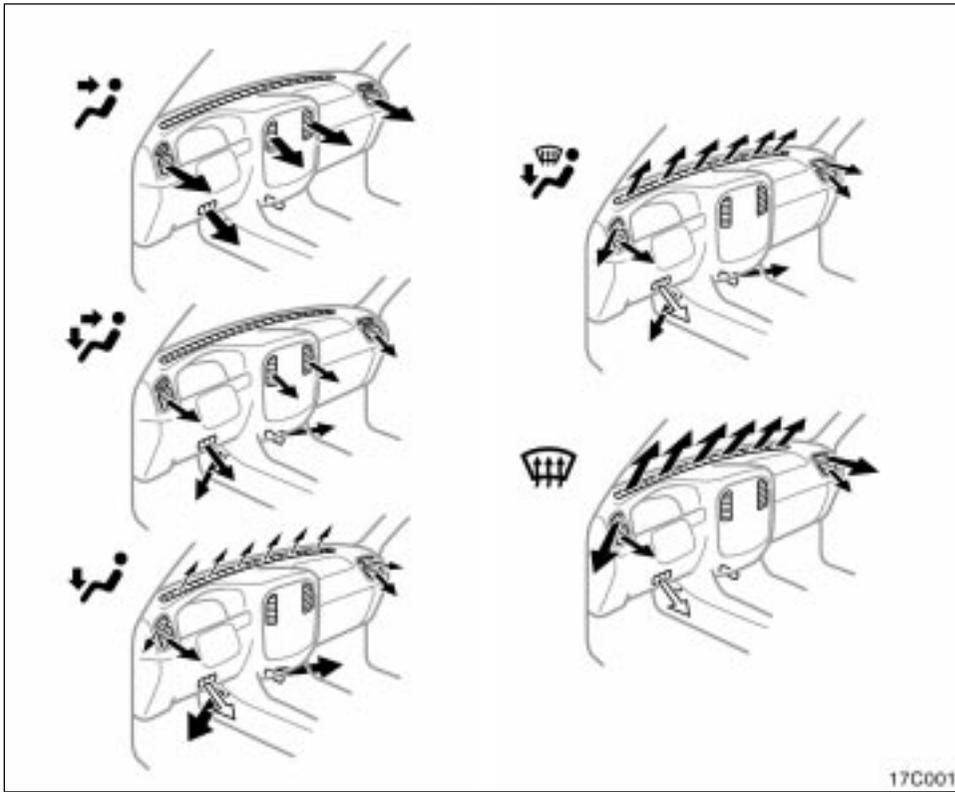


## Automatic Air Conditioning Controls



*Page*

1. Air conditioning operation screen display button ..... 74
2. Driver side temperature control button ..... 75
3. Front windshield button ..... 77
4. Automatic control button ..... 74
5. OFF button ..... 74
6. Air intake control button ..... 76
7. Air conditioning on-off switch ... 77
8. Air flow control switch ..... 75
9. Fan speed control switch ..... 76



► **Air flow selection**

⇒ See "Lower vent" on page 80.

► **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.

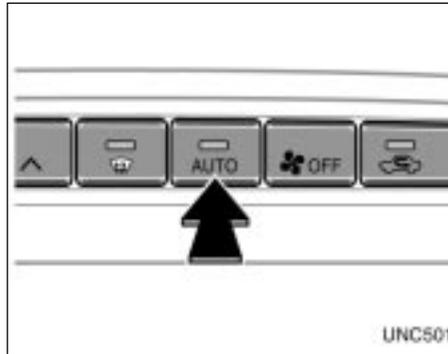
**CLIMATE:** Push this button to display switches for automatic air conditioning controls.

### **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**



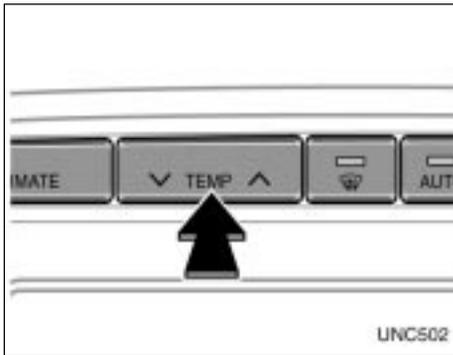
#### **1. Push the "AUTO" button.**

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 to close the lower vent. For details about it, see page 80.



**2. Use the "TEMP" button to set the desired temperature.**

The "TEMP" button is used to set the desired passenger compartment temperature. The temperature of air delivered to the passenger compartment will be controlled automatically according to the setting.

**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.

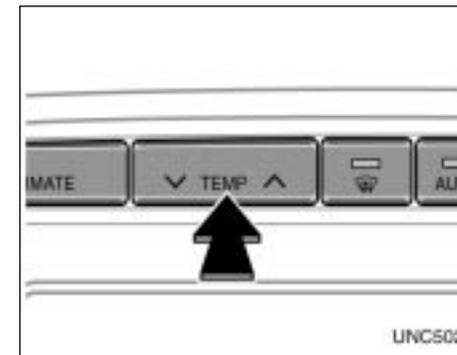
It is recommended to close the lower vent. For details about it, see page 80.

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

It is recommended to close the lower vent. For details about it, see page 80.

The selected mode is highlighted in green.

**If quick heating or cooling is desired –**



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

If manual fan speed control is desired –



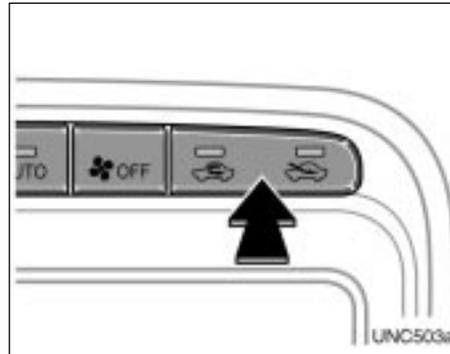
- ▶ **1** Fan speed at low
- ▶ **2** Fan speed at high

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.

If manual switching of air intake is desired –



The air intake control button is used to switch the air intake between the OUTSIDE AIR mode and RECIRCULATED AIR mode.

With the button in the OUTSIDE AIR mode, the OUTSIDE AIR mode indicator light will come on and the system will take fresh outside air into the vehicle.

If quick circulation of cooled air is desired, push the air intake control button for RECIRCULATED AIR. The RECIRCULATED AIR mode indicator light will come on.

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.

If the engine coolant temperature becomes extremely high, the RECIRCULATED AIR mode is automatically selected. This is not a malfunction. When the engine coolant temperature is lowered, the previous mode resumes.

In the following cases, the RECIRCULATED mode may change to the OUTSIDE AIR mode automatically to prevent interior fog.

- When the outside temperature becomes lower than 4°C (39°F).
- When the air conditioning compressor malfunctions.
- When the air conditioning cooler refrigerant decreases.

**If manual on-off of the air conditioning is desired –**

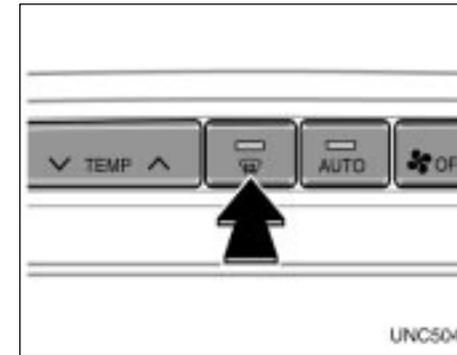
Push the "A/C" button to turn the air conditioning on and push it again to turn the air conditioning off.

If the outside temperature is lowered down to around 0°C (32°F), the air conditioning will turn off automatically.

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.

If the air conditioning compressor does not operate, the indicator of the "A/C" button will blink. If the indicator of the "A/C" button blinks even when the "A/C" button is pushed again, have the compressor checked by your nearest Toyota dealer.

**(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 80.

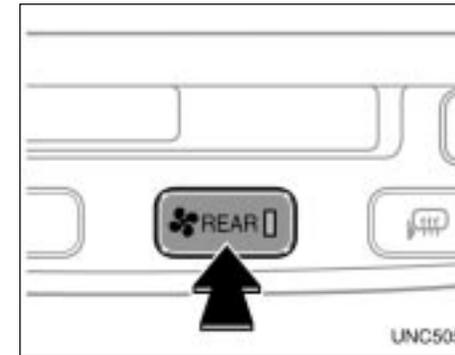
When the **"FRONT WINDSHIELD"** button is pushed while operating in automatic mode, the air conditioning is set to operate and the **OUTSIDE AIR** mode is set.

Push the **"A/C"** button for dehumidified heating or cooling. This setting clears the front view more quickly.

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

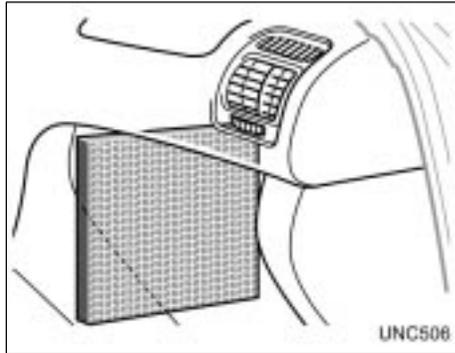
 <b>CAUTION</b>	
<b>Do not use the "FRONT WINDSHIELD" button during cooled air operation in extremely humid weather. The difference between the temperature of the outside air and that of the windshield could cause the outer surface of the windshield to fog up blocking your vision.</b>	

**(c) Rear air conditioning switch**



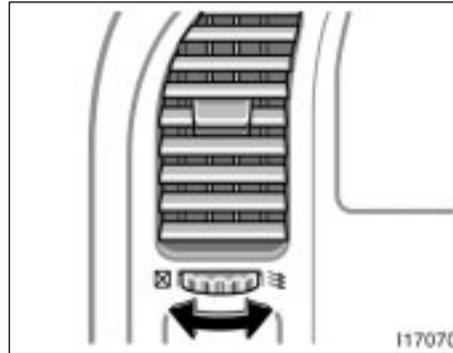
To turn on the rear air conditioning when you sit on the front seat, push this switch. The rear air conditioning operates in the automatic mode. To adjust the air flow and setting temperature, follow the steps in accordance with "Rear air conditioning controls" in the Owner's Manual.

**(d) Air filter**



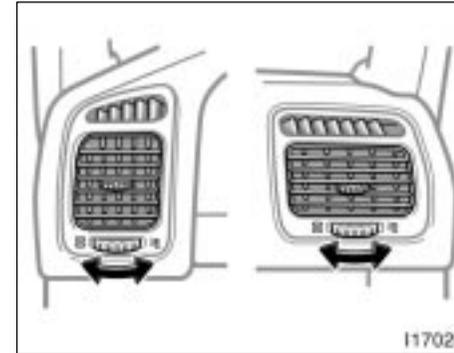
Your vehicle is equipped with an air conditioning filter. The air conditioning filter may clog after long use and reduce the air flow quantity. To maintain the air conditioning efficiency, have the air conditioning filter inspected or replaced by your Toyota dealer according to the maintenance schedule.

**Center vents**



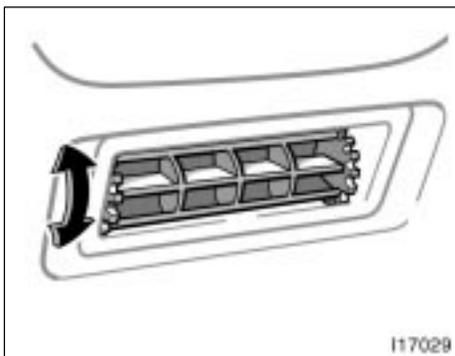
The center vents may be opened or closed as shown.

**Side vents**



The side vents may be opened or closed as shown.

## Lower vent



**The lower vent may be opened or closed as shown.**

For removing frost or fog, it is recommend to close the lower vent when you use the "Floor", the "Floor/Windshield" or the "Windshield" mode.

# **SECTION VI**

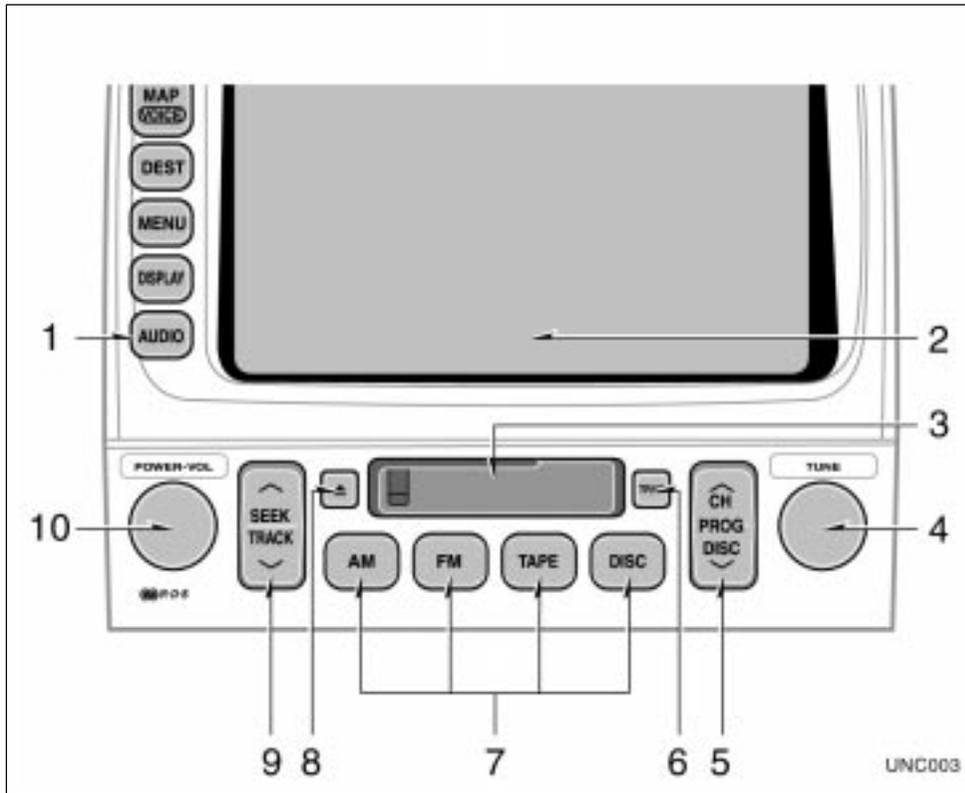
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## **AUDIO SYSTEM**

Audio system ..... 82

**Audio System**  
**Quick reference for your audio system**

*Page*



- 1. Audio operation screen display button ..... 83
- 2. Function switch display screen ..... 84
- 3. Cassette tape slot ..... 92
- 4. Frequency turning knob ..... 87
- 5. [Radio mode] Preset tuning .... 88  
 [Tape mode] Side change of cassette tape ..... 93  
 [DISC mode] Disc selection .... 97
- 6. Traffic function button ..... 89
- 7. Mode selectors ..... 83
- 8. Stopping and ejecting a cassette tape ..... 92
- 9. [Radio mode] Seek tuning ..... 88  
 [Tape/DISC mode] Direct access to a desired program ..... 94/98
- 10. Turning the system on and adjusting volume ..... 83

### Using your audio system: some basics

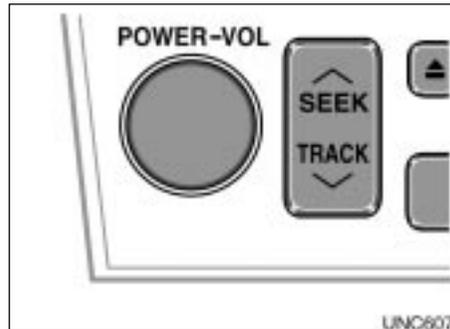
This section describes some of the basic features of the audio system. Some information may not pertain to your system.

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

#### **NOTICE**

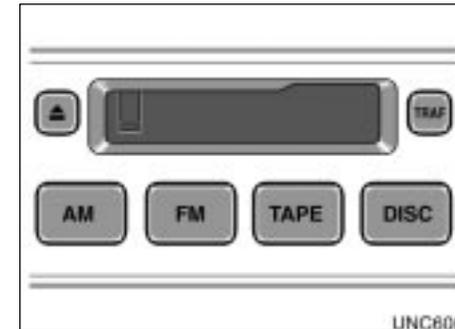
*To prevent the battery from being discharged, do not leave the car audio on longer than necessary when the engine is not running.*

### (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.



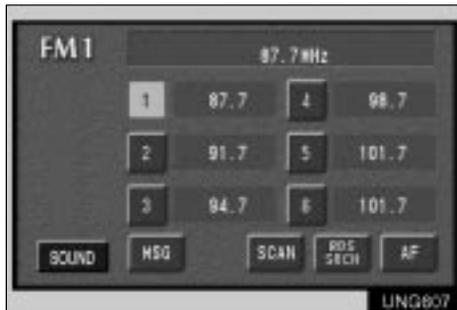
The switches for radio, cassette tape and disc player operation are displayed on the liquid crystal display. Touch them lightly and directly on the screen.

### (b) 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.

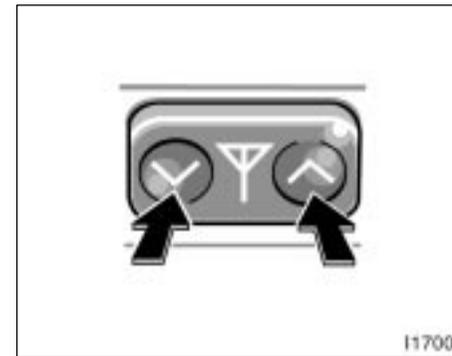
**TREB "+" or "-"**: Adjusts high-pitched tones.

**"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.

**(c) Your radio antenna**



**To adjust the height of the antenna manually, push the switch.**

Clean the antenna mast periodically with a clean dry cloth.

 **CAUTION**

**Before extending the antenna, confirm that no one is close enough to get injured.**

**NOTICE**

*To prevent damage to the antenna, make sure it is retracted before driving your vehicle through an automatic car wash.*

**(d) 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.*

**(e) Your automatic changer**



If your vehicle 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 "DISC CHECK" and the disc number.

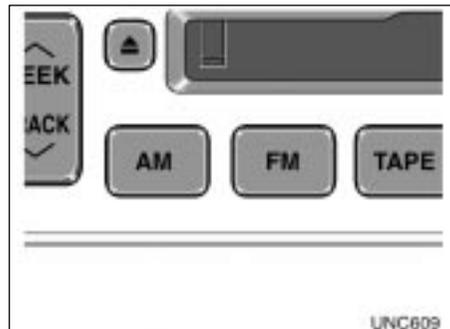
**NOTICE**

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

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

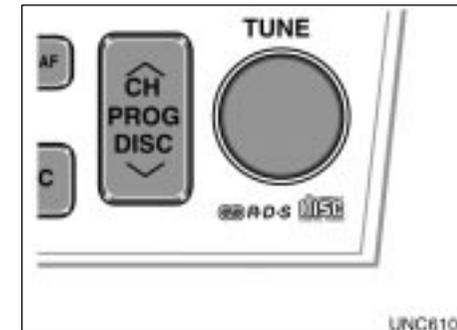
## Radio operation

### (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.

### (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 vehicle 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.

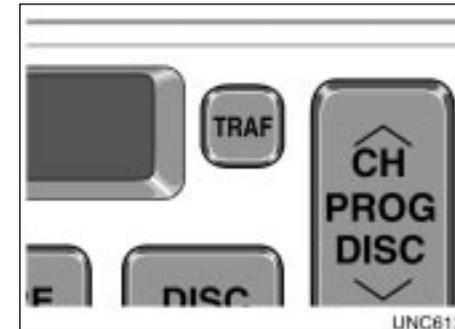
**Preset scan tuning:** Touch the "SCAN" switch and hold it until you hear a beep. "P. SCAN" appears on the display. The radio will tune in the next preset station up or down the band, stay there for a few seconds, and then move to the next preset station. To select a station, touch the "SCAN" switch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

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



**AF (Alternative Frequency) function:** A station providing good reception is automatically selected if current reception worsens.

This function switches over to the broadcasting station providing good reception within the same RDS network and is convenient for following the appropriate stations.



**TRAF (Traffic) function:** A station that regularly broadcasts traffic information is automatically sought and broadcasts when the program starts.

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. When traffic announcement program starts broadcasting, "Traffic" will appear on the screen.

After the traffic announcement program is over, the previous mode returns.

### (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.

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) Emergency broadcast**



If an emergency broadcast is received during reception of other than AM broadcasting, "Alert" appears and an emergency broadcast will start.

**(g) 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 has memory to store three messages consisting of 64 characters. 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.

To recall a radio text message, touch the "RECALL" switch. Each time you touch the switch, the message will be displayed from the new 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.



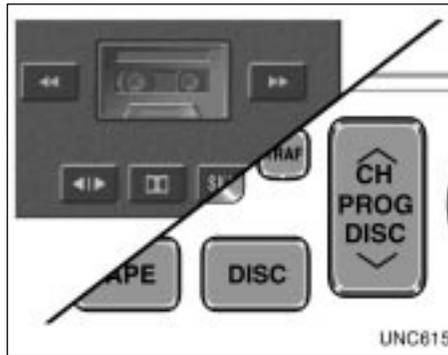
**If a cassette is already in the slot, push the "TAPE" button.**

**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.

\* 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 at the same time. 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 that 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.

### (c) Automatic program selection



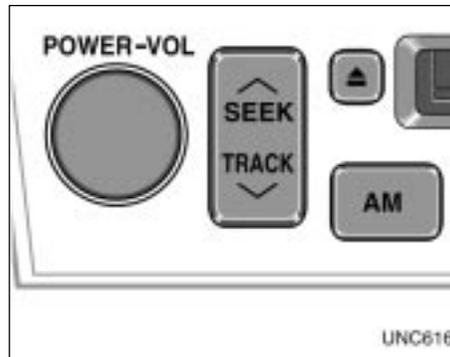
**"RPT" switch:** The repeat feature automatically replays the current program.

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.

## DVD player operation

The DVD player can play audio CDs, DVD video discs and video CDs.

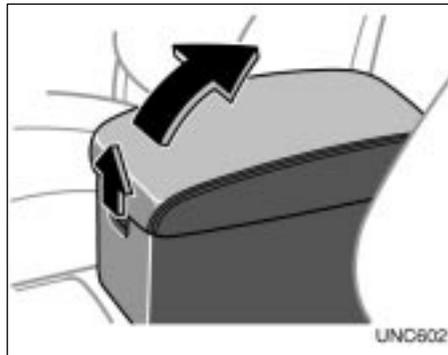
For safety reasons, you can enjoy DVD video discs and video CDs only when the vehicle is completely stopped with the ignition switch in the "ACC" or "ON" position and the parking brake applied. While you are driving, you can hear audio alone even in the DVD video or video CD mode.

The DVD player can play the discs labeled as shown below.

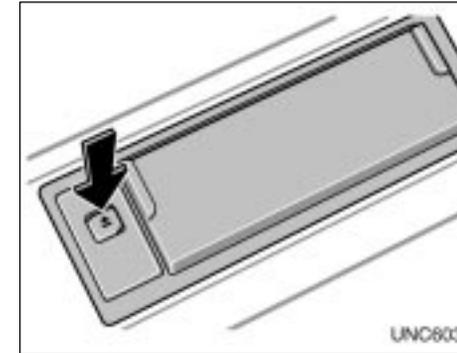
Audio CDs	
DVD video discs	
Video CDs	 

CD-R (CD-Recordable), CD-RW (CD-Re-writable) and personal computer use CD-ROMs may not be playable on this DVD player.

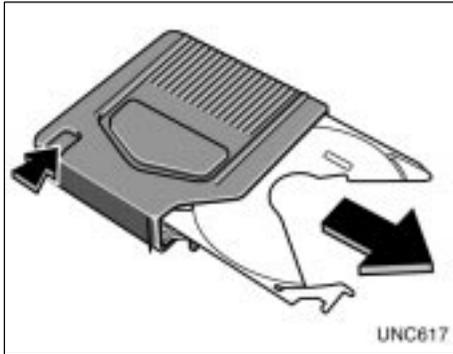
### (a) Inserting discs



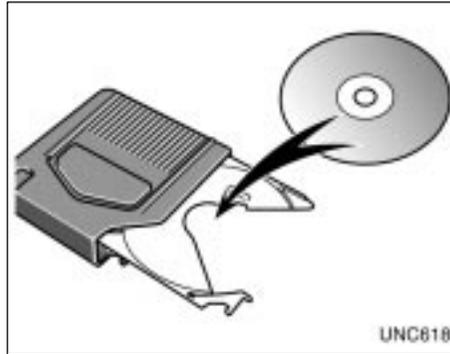
1. Push the lock release button and open the console box.



2. Push this button to eject the magazine.

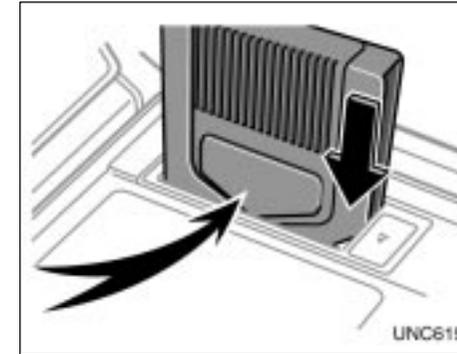


**3. Pull out the tray while pushing the lock release button.**



**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, "DISC CHECK" and disc number appears on the display.



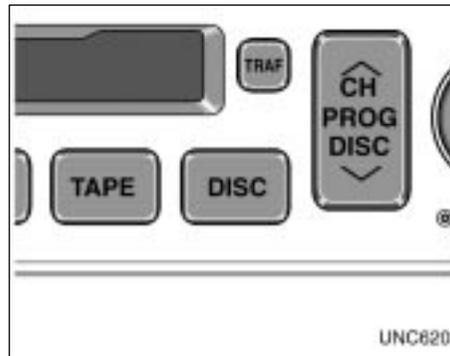
**5. Insert the magazine into the player as indicated by the arrow ahead on the magazine, close the door and console box.**

When the magazine is set completely, the system will be in a "Load" cycle for approximately 30 seconds while the system searches for discs in the magazine. Upon completion of this cycle, the DVD player unit will be ready to play. If the "DISC" button is pushed during the "Load" cycle, "LOAD" appears on the display until the system has completed the load cycle, after which the system will begin normal play.

**CAUTION**

To reduce the chance of injury in case of an accident or a sudden stop, always keep the console box closed while driving.

(b) Playing a disc

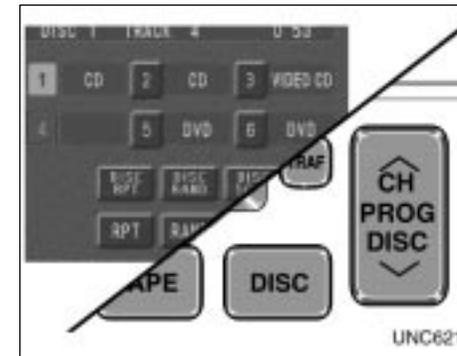


Push the “DISC” button if the magazine is already loaded in the player.

“DVD CHANGER” 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.

(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 “v” side of the “DISC” button.

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

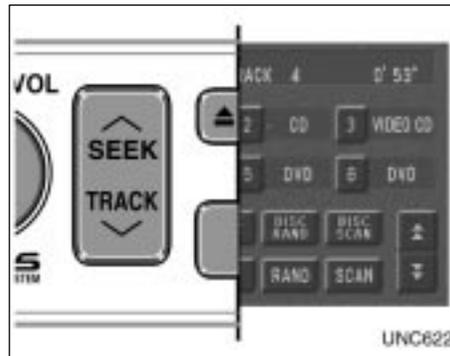
(d) Operating an audio CD

(i) Playing an audio CD



Push the number of the disc you want to play. The selected disc is automatically played.

(ii) 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 player will resume playing from that position.

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

(iii) Searching for a desired track or a disc



**Touch the “SCAN” switch.**

“SCAN” will be highlighted in green. The 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.

**Touch the “DISK SCAN” switch.**

“DISK SCAN” will be 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 “DISK SCAN” switch a second time.

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

**(iv) Other 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 switch once again.

**“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.

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

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

**(e) Operating a DVD video disc**

**Precautions:** The playback condition of some DVD video discs may be determined by a DVD video software producer. This DVD player plays a disc as the software producer intended. So some functions may not work properly. Be sure to read the instruction manual for the DVD video disc separately provided.

**(i) DVD video discs**

**This DVD player conforms to NTSC color TV formats. The DVD video disc conforming to another formats such as PAL or SECAM cannot be used.**

**Region codes:** Some DVD video discs have a region code indicating a country where you can use the DVD video disc on this DVD player. If the DVD video disc is not labeled as "ALL" or "1", you cannot use it on this DVD player. If you attempt to play an inappropriate DVD video disc on this player, "REGION CODE ERROR" appears on the screen. Even if the DVD video disc does not have a region code, there is a case that you cannot use it.

**Marks shown on DVD video discs:**

	indicates NTSC format of color TV.
	indicates the number of audio tracks.
	indicates the number of language subtitles.
	indicates the number of angles.
	indicates the screen to be selected. Wide screen: 16:9 Standard: 4:3
	indicates a region code by which this video disc can be played. ALL: in all countries Number: region code

## (ii) DVD video disc glossary

**DVD video discs:** DVD in which animated pictures are memorized. DVD video discs have adopted “MPEG2”, one of the world standards of digital compression technologies. The picture data is compressed by 1/40 on average and memorized. The variable rate encoded technology in which the volume of data assigned to the picture is changed depending on the picture format has also been adopted. Audio data is memorized using PCM and Dolby digital, which enables higher quality of sound. Furthermore, multi-angle and multi-language features will also help you enjoy more advanced technology of DVD video.

**Viewer restrictions:** This feature limits the viewers in conformity with a level of restrictions of the country. The level of restrictions varies depending on the DVD video disc. Some DVD video discs cannot be played at all, or violent scenes are skipped or replaced with other scenes.

Level 1: DVD video discs for children can be played.

Level 2 – 7: DVD video discs for children and G-rated movie can be played.

Level 8: All types of the DVD video discs can be played.

**Multi-angle feature:** You can enjoy the same scene at different angles.

**Multi-language feature:** You can select a language of the subtitle and audio.

**Region codes:** The region codes are provided on DVD players and DVD discs. If the DVD video disc does not have the same region code as on the DVD player, you cannot play the disc on the DVD player. For region codes, see page 106.

**Audio:** This DVD player can play liner PCM and Dolby digital and MPEG audio format DVD. Other decoded type cannot be playable.

**Title and chapter:** Video and audio programs stored in DVD video disc are divided in parts by title and chapter.

**Title:** The largest unit of the video and audio programs memorized in DVD video discs. Usually, one piece of movie, one album, or one audio program is assigned as a title.

**Chapter:** The unit smaller than that of title. A title comprises plural chapters.

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**“DTS” is a trademark of Digital Theater Systems, Inc.**

### (iii) Precautions on DVD video disc

When recording with a DVD video or video CD, audio tracks may not record in some cases while the menu is displayed. As audio will not play in this case, verify that the video tracks are playing and then activate playback.

When playback of a disc is completed:

- If an audio CD is playing, the next CD will be selected and playback will begin automatically.
- If a DVD video or video CD is playing, playback will stop or the menu screen will be displayed. The next disc will not play back automatically. (Audio tracks cannot be heard while the disc is stopped)

The title/chapter number and playback time display may not appear while playing back certain DVD video discs.

Conversational speech on some DVDs is recorded at a low volume to emphasize the impact of sound effects. If you adjust the volume assuming that the conversations represent the maximum volume level that the DVD will play, you may be startled by louder sound effects or when you change to a different audio source. Be sure to adjust the volume with this in mind.

### (iv) Playing a DVD video disc



**Push the number of the disc you want to play. The selected disc is automatically played.**

When you touch the "PICTURE" switch, the video screen appears.

### (v) Displaying operation switches



If you touch the part where switches are not located while you are watching video, DVD video operation switches will appear.

**“Second Page” switch:** Use this switch to display the operation switches on the second page.

**“Top Page” switch:** Use this switch to display the operation switches on the top page.

**“Hide Keys” switch:** Use this switch to turn off the operation switches from the display.

If “” appears on the display when you touch a switch, the operation relevant to the switch is not permitted.

#### (vi) Description of each switch

##### ● Switches on top page

**“SET UP” switch:** The initial set up screen appears. (See page 105.)

**“”, “Menu” and “Top Menu” switches:** If you touch any of the above switches, the menu screen for DVD video appears. (For the operation, see the manual for the DVD video disc provided separately.)

**“Angle” switch:** The angle selection screen appears. (See page 105.)

**“Sub Title” switch:** The subtitle changing screen appears. (See page 104.)

**“Audio” switch:** The audio changing screen appears. (See page 104.)

##### ● Switches on second page

**“Search” switch:** The title search screen appears. (See page 104.)

**“” switch:** Use this switch to pause the video screen. When you touch this switch again, the video screen advances frame by frame.

**“” switch:** Use this switch to stop playing video.

**“” switch:** Touch this switch to fast reverse during the playback and reverse slowly during the pause.

**“” switch:** Use this switch to cancel the stop and pause to normal playing.

**“” switch:** Touch this switch to fast forward during the playback and forward slowly during the pause.

**“” switch:** Use this switch to display the predetermined scene and start playing from there.

**(vii) Searching by title**



Enter the title number using “-”, “+” and “+10” switches and touch “Enter”. The player starts playing video for that title number.

When you push “^” or “v” on the “TRACK” switch, you can select a chapter.

Touch “Return”, the previous screen returns.

**(viii) Changing the subtitle language**



Each time you touch “Sub Title”, the language is selected from the ones stored in the discs and changed.

To turn off the subtitle, touch “Hide”.

Touch “Return”, the previous screen returns.

**(ix) Changing the audio language**



Each time you touch “Audio”, the language is selected from the ones stored in the discs and changed.

Touch “Return”, the previous screen returns.

**(x) Changing the angle**



The angle can be selected from the disc in which the multi-angle is memorized and changed when the angle mark appears on the display.

Each time you touch "Angle", the angle changes.

Touch "Return", the previous screen returns.

**(xi) Setup menu**



The initial setting can be changed.

- **Audio language**

You can change the audio language.

1. Touch "Audio Lang."

2. Touch a language you want to hear on the "Select Audio Lang." screen and "Enter".

If you cannot find a language you want to hear on this screen, touch "Others" and enter a language code. For the entry of language code, see page 106.

- **Subtitle language**

You can change the subtitle language.

1. Touch "Subtitle Lang."

2. Touch a language you want to read on the "Select Subtitle Lang." screen and "Enter".

If you cannot find a language you want to read on this screen, touch "Others" and enter a language code. For the entry of language code, see page 106.

- **DVD language**

You can change the language on the DVD video menu.

1. Touch "DVD Language"

2. Touch a language you want to read on the "Select DVD Language" screen and "Enter".

If you cannot find a language you want to read on this screen, touch "Others" and enter a language code. For the entry of language code, see page 106.

- **Angle mark**

The multi-angle mark can be turned on or off on the screen while the disc in which the multi-angle is memorized is being played.

Each time you touch “Angle Mark”, the angle mark on the display turns on or off alternately.

- **Parental**

The level of viewer restrictions can be changed.

1. Touch “Parental”.

2. Touch the numbers of the personal code on the “Enter personal code” screen and touch “Enter”. If you enter the wrong numbers, touch “Clear” to delete the numbers.

10 touches of “Clear” will initialize the personal code.

3. Touch a parental level (1–8) on the “Select Restriction Level” and “Enter”.

**(xii) Entry of language code**



If you touch “Others” on the “Select Audio Lang.” screen, “Select Subtitle Lang.” screen or “Select DVD language” screen, you can select a language you want to hear or read by entering a language code.

1. Touch the numbers of language code.

If you enter the wrong numbers, touch “Clear” to delete the numbers.

2. Touch “Enter”.

Code	Language
1001	Japanese
0514	English

0618	French
0405	German
0920	Italian
0519	Spanish
2608	Chinese
1412	Dutch
1620	Portuguese
1922	Swedish
1821	Russian
1115	Korean
0512	Greek
0101	Afar
0102	Abkhazian
0106	Afrikaans
0113	Amharic
0118	Arabic
0119	Assamese
0125	Aymara
0126	Azerbaijani

0201	Bashkir
0205	Byelorussian
0207	Bulgarian
0208	Bihari
0209	Bislama
0214	Bengali
0215	Tibetan
0218	Breton
0301	Catalan
0315	Corsican
0319	Czach
0325	Welsh
0401	Danish
0426	Bhutani
0515	Esperanto
0520	Estonian
0521	Basque
0601	Persian
0609	Finnish

0610	Fiji
0615	Faroese
0625	Frisian
0701	Irish
0704	Scots–Gaelic
0712	Galician
0714	Guarani
0721	Gujarati
0801	Hausa
0809	Hindi
0818	Croatian
0821	Hungarian
0825	Armenian
0901	Interlingua
0905	Interlingue
0911	Inupiak
0914	Indonesian
0919	Icelandic
0923	Hebrew

1009	Yiddish
1023	Javanese
1101	Georgian
1111	Kazakh
1112	Greenlandic
1113	Cambodian
1114	Kannada
1119	Kashmiri
1121	Kurdish
1125	Kirghiz
1201	Latin
1214	Lingala
1215	Laothian
1220	Lithuanian
1222	Latvian
1307	Malagasy
1309	Maori
1311	Macedonian
1312	Malayalam

1314	Mongolian
1315	Moldavian
1318	Marathi
1319	Malay
1320	Maltese
1325	Burmese
1401	Nauru
1405	Nepali
1415	Norwegian
1503	Occitan
1513	(Afan)Oromo
1518	Oriya
1601	Panjabi
1612	Polish
1619	"Pashto,Pushto"
1721	Quechua
1813	Rhaeto–Romance
1814	Kirundi
1815	Romanian

1823	Kinyarwanda
1901	Sanskrit
1904	Sindhi
1907	Sangho
1908	Serbo–Croatian
1909	Sinhalese
1911	Slovak
1912	Slovenian
1913	Samoaan
1914	Shona
1915	Somali
1917	Albanian
1918	Serbian
1919	Siswati
1920	Sesotho
1921	Sundanese
1923	Swahili
2001	Tamil
2005	Telugu

2007	Tajik
2008	Thai
2009	Tigrinya
2011	Turkmen
2012	Tagalog
2014	Setswana
2015	Tonga
2018	Turkish
2019	Tsonga
2020	Tatar
2023	Twi
2111	Ukrainian
2118	Urdu
2126	Uzbek
2209	Vietnamese
2215	Volapük
2315	Wolof
2408	Xhosa

2515	Yoruba
2621	Zulu

**(f) Operating a video CD**

**(i) Playing a video CD**



**Push the number of the disc you want to play.**

When you touch the "PICTURE" switch, the video screen appears.

**(ii) Displaying operation switches**



If you touch the part where switches are not located while you are watching video on the video CD, video CD operation switches will appear.

**“Second Page” switch:** Use this switch to display the operation switches on the second page.

**“Top Page” switch:** Use this switch to display the operation switches on the top page.

**“Hide Keys” switch:** Use this switch to turn off the operation switches from the display.

If “” appears on the display when you touch the switch, the operation is not permitted.

### (iii) Description of each switch

#### ● Switches on top page

**“D. Menu Next” switch:** When you touch this switch while the disc menu is displayed, the next page appears on the display. If you touch this switch while the player is playing video, the next track is searched and played.

**“D. Menu Prev.” switch:** When you touch this switch while the disc menu is displayed, the previous page appears on the screen. If you touch this switch while the player is playing video, the previous track is searched and played.

**“Sel. Number” switch:** The track or number search screen appears. (See “Searching by track or number” on the next page.)

**“Main/Sub” switch:** A multiplex transmission changing switch. The mode changes from Main/Sub to Main, to Sub and back to Main/Sub by touching this switch.

**“” switch:** The video CD menu appears. (For the operation, see the instruction manual for the video CD provided separately.)

#### ● Switches on second page

**“” switch:** Use this switch to pause the video screen. When you touch this switch again, the video screen advances by frame by frame.

**“▶” switch:** Touch this switch during the pause to resume playing.

**“◀◀” switch:** Touch this switch to fast reverse during the playback.

**“▶▶” switch:** Touch this switch to fast forward during the playback and start playing slowly during the pause.

**“PBC” switch:** Use this switch to turn off playback control.

(iv) Searching by track or number



Enter the track numbers using “-”, “+” and “+10” switches and touch “Enter”. The player starts playing video for that title number.

You can select a track number by pushing “^” or “v” on the “TRACK” button.

Touch “Return”, the previous screen returns.

(h) If the player malfunctions

If the player or another unit equipped with the player malfunction, your audio system will display one of the six following messages.

**If “DISC CHECK” appears on the display:** It indicates that the disc dirty, damaged, or it was inserted up-side down. Clean the disc or insert it correctly.

**If “NO DISC” appears on the display:** It indicates that there is no disc in the DVD player.

**If “REGION CODE ERROR” appears on the display:** It indicates that the DVD region code is not set properly.

**If “DVD DOOR OPEN” appears on the display:** It indicates that the door of the DVD player is open.

**If “DVD ERROR” appears on the display:** It indicates that the inside of the player unit may be too hot due to the very high ambient temperature. Remove the magazine from the player and allow the player to cool down.

**If “NO DVD MAGAZINE” appears on the display:** It indicates that the magazine is not inserted into the DVD player.

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 magazine into the cassette tape slot or DVD player.*
- *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, lightning, 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.

- 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.)

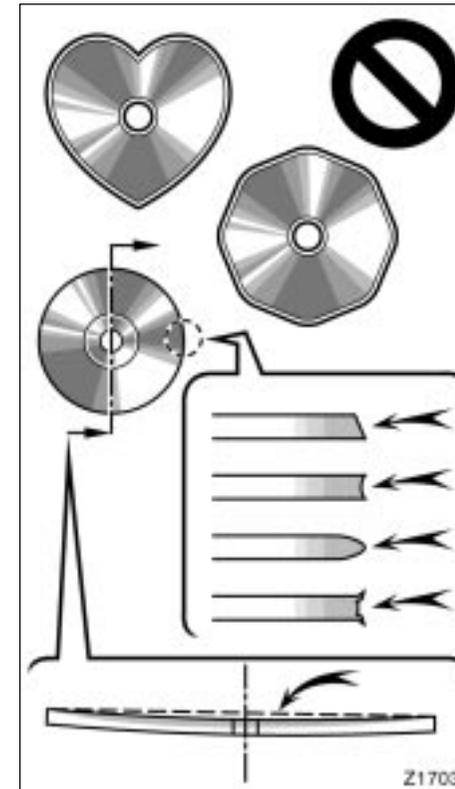
Use high-quality cassettes:

- 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 cassette is thin and could get stuck or tangled in the cassette player.

### Caring for your DVD player and discs

Audio CDs	
DVD video discs	
Video CDs	 

- Use only discs labeled as shown. CD-R (CD-Recordable), CD-RW (CD-Re-writable) and personal computer use CD-ROMs may not be playable on your DVD player.
- Your DVD player is intended for use with 12 cm (4.7 in.) discs only.
- Extremely high temperature can keep your DVD 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 multi-disc player skip.
- If moisture gets into your DVD player, you may not hear any sound even though your DVD player appears to be working. Remove the magazine from the player and wait until it dries.



- Your DVD player cannot play special shaped or low-quality discs as those shown here. Do not use them as the player could be damaged.
- Handle 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.)
- Remove discs from the compact disc player when you are not listening to them. Store them in their plastic cases away from moisture, heat, and direct sunlight.

To clean a 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.



#### CAUTION

**DVD players use an invisible laser beam which could cause hazardous radiation exposure if directed outside the unit. Be sure to operate the player correctly.**