



# Navigation System Owner's Manual

*For your safety and comfort, read carefully and keep in the vehicle.*

**LAND CRUISER**  
STATION WAGON



# Introduction

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

The 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 indicates your present position and assists 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 also designed to direct you to a destination that is unfamiliar to you in an efficient manner. Map database is made based on DENSO maps, whose information source comes from Sensis Maps. The calculated routes may not be the shortest nor the least traffic congested. Your own personal local knowledge or "short cut" may at times be faster than the calculated routes.

The navigation system's database includes about 35 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 guide you there.

The system will provide both a visual map and audio instructions. The audio instructions will announce the distance remaining and the direction to turn in approaching an 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 274 through 275.**

**TOYOTA MOTOR CORPORATION**

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## Important information about this manual

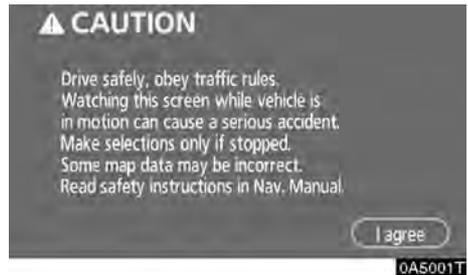
For safety reasons, this manual indicates items requiring particular attention with the following marks.

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

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

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

## Safety Instruction



To use this system in the safest possible manner, follow all the safety tips shown below.

This system is intended to assist in reaching the destination and, if used properly, can do so. The driver is 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 becomes a distraction and prevents safe driving. The first priority while driving should always be the safe operation of the vehicle. While driving, be sure to observe all traffic regulations.

Prior to the actual use of this system, learn how to use it and become thoroughly familiar with it. Read the entire Navigation System Owner's Manual to make sure you understand the system. Do not allow other people to use this system until they have read and understood the instructions in this manual.

For your safety, some functions may become inoperable when driving. Unavailable touch-screen buttons are dimmed. Only when the vehicle is not moving, can the destination and route selection be done.



## CAUTION

- **For safety, the driver should not operate the navigation system while he/she is driving. Insufficient attention to the road and traffic may cause an accident.**
- **While driving, be sure to obey the traffic regulations and maintain awareness of the road conditions. If a traffic sign on the road has been changed, route guidance may provide wrong information such as the direction of a one way street.**

While 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 reference. If the system cannot determine the current vehicle 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 following any instruction from the system, look to see whether the instruction can be done safely and legally.

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

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

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\*: Point of Interest

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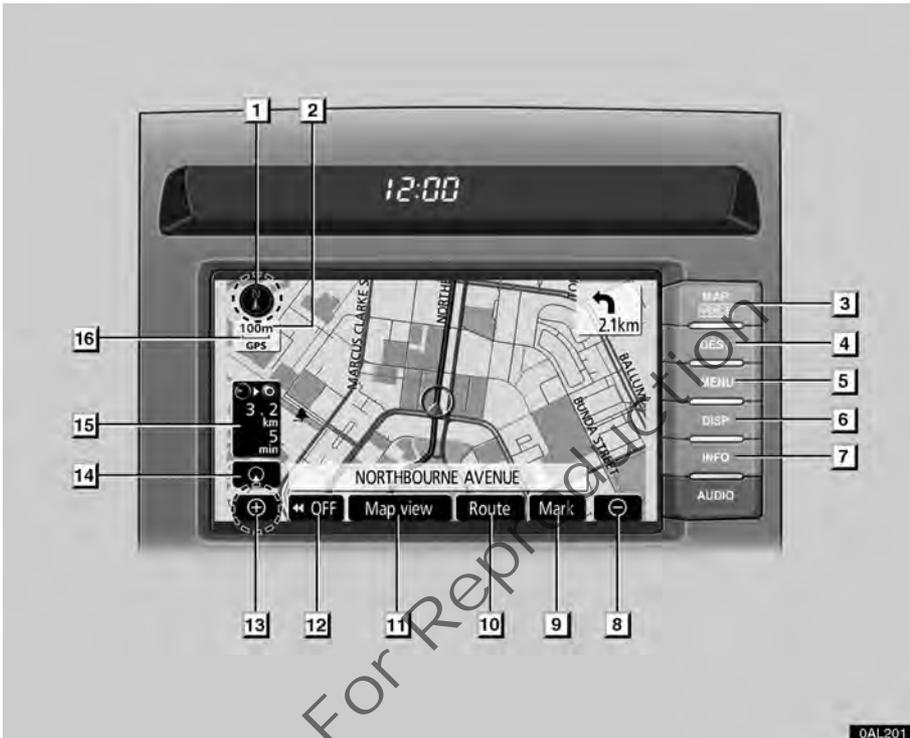
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# Quick guide— — Overview buttons and guidance screen



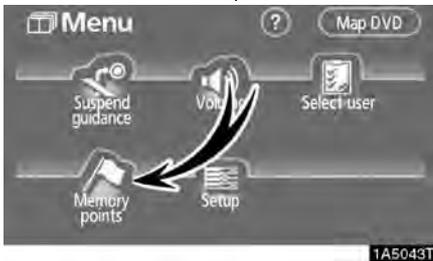
No.	Name	Function	Page
1	North-up or heading-up symbol	This symbol indicates a map view with north-up or heading-up. Touching this symbol changes the map orientation.	35
2	Scale indicator	This figure indicates the map scale.	34
3	“MAP/VOICE” button	Push this button to repeat a voice guidance, cancel one touch scroll, start guidance, and display the current position.	28, 63
4	“DEST” button	Push this button to display the “Destination” screen.	16, 18, 38, 39
5	“MENU” button	Push this button to display the “Menu” screen.	12, 14, 78, 80, 81, 83, 85, 98, 277

No.	Name	Function	Page
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11	“Map view”	Touch this button to browse information about guidance route, to set the Points of Interest to be displayed on the screen, or to record the route.	71, 73, 74, 75
12	“◀◀OFF”	Touch this button to obtain a broader view. Some of the buttons on the screen are not displayed. They are displayed again by touching “ON▶▶”.	101
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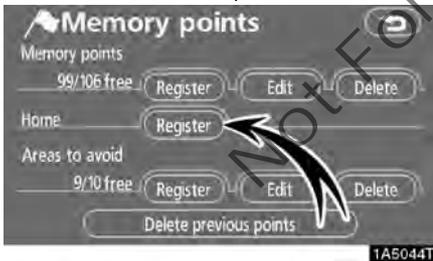
## — Registering home



1 Push "MENU" button.



2 Touch "Memory points".



3 Touch "Register" of the home.



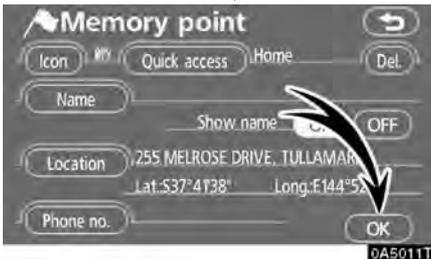
4 There are 10 different methods to search your home.

See "Destination search" on page 39.



**5 Touch “Enter”.**

The “Memory point” screen is displayed.



**6 Touch “OK”.**

Registration of home is complete.

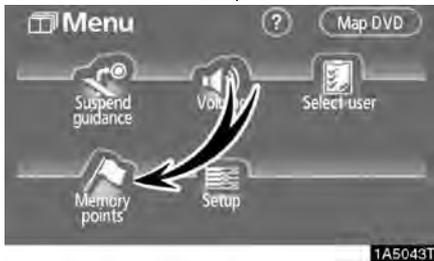
You can change the icon, quick access, name, location and phone number. (See “Editing memory points” on page 87.)

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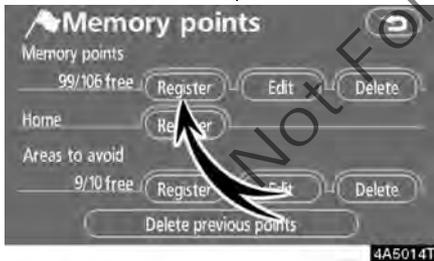
## — Registering preset memory point (Quick access)



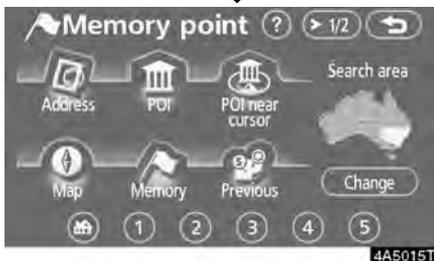
1 Push “MENU” button.



2 Touch “Memory points”.



3 Touch “Register” of the memory points.



4 There are 11 different methods to search preset destinations.

See “Destination search” on page 39.



**5 Touch “Enter”.**

The “Memory points” screen is displayed.



**6 Touch “Quick access”.**



**7 Touch one of preset buttons 1 to 5.**



**8 Touch “OK”.**

Registration of preset destinations is complete.

You can change the icon, quick access, name, location and phone number. (See “—Editing memory points” on page 87.)

The registered points can be used on the “Destination” screen. (See “—Destination search by Quick access” on page 42.)

## — Operation flow: guiding the route

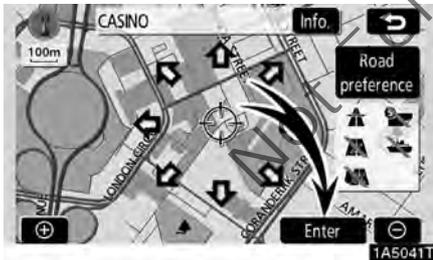


**1** Push “DEST” button.



**2** There are 11 different methods to search destinations.

See “Destination search” on page 39.



**3** Touch “Enter”.

The navigation system performs a search for the route.



**4** Touch “Guide”, and start driving.

Routes other than the one recommended can also be selected. (See “Starting route guidance” on page 56.)

**5** Guidance to the destination is given via voice and on the guidance screen.

## — Setting home as the destination

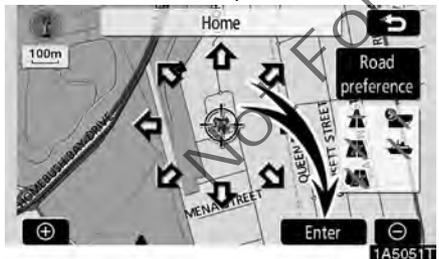


1 Push “DEST” button.



2 Touch  .

The  can be used if your home has been registered. (To register “Home”, see “— Registering home” on page 92.)



3 Touch “Enter”.

The navigation system performs a search for the route.



4 Touch “Guide”, and start driving.

Routes other than the one recommended can also be selected. (See “Starting route guidance” on page 56.)

5 Guidance to the destination is given via voice and on the guidance screen.

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\*: Point(s) of Interest

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### **⟨Useful functions⟩**

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# SECTION 1

## BASIC FUNCTIONS

### Basic information before operation

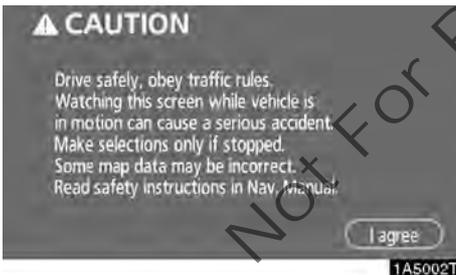
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### Initial screen



When the “ENGINE START STOP” switch is in ACCESSORY or IGNITION ON mode, the initial screen will be displayed and the system will begin operating.



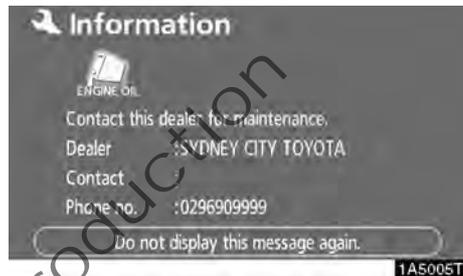
**Read and follow the instructions.**

**When “I agree” is touched on the screen, the map screen will be displayed.**

- **Maintenance information**

This system informs about when to replace certain parts or components and shows dealer information (if registered) on the screen.

When the vehicle reaches a previously set driving distance or date specified for a scheduled maintenance check, the “Information” screen will be displayed when the navigation system is in operation.



**To disable this screen, touch “Do not display this message again.”. This screen goes off if the screen is not operated for several seconds.**

**To prevent this information screen from being displayed again, touch “Do not display this message again.”.**

To register “Maintenance information”, see “Maintenance information” on page 110.

### ● Memo information

This system notifies about a memo entry. At the specified date, the memo information will be displayed when the navigation system is in operation. The memo information screen will be displayed every time the system is turned on.



The memo of the current date can be viewed by touching “Memo”. (See “—Editing a memo” on page 117.)

To disable this screen, touch “Do not display this message again.”. This screen goes off if the screen is not operated for several seconds.

To prevent this information screen from being displayed again, touch “Do not display this message again.”.

To register “Memo information”, see “Calendar with memo” on page 114.

## Touch screen operation

This system is operated mainly by the touch-screen buttons on the screen.

To prevent damage to the screen, lightly touch buttons on the screen with the finger. When a button on the screen is touched, a beep sounds.

Do not use objects other than the finger to touch the screen.

### INFORMATION

- *If the system does not respond to a touch on a touch-screen button, move the finger away from the screen and then touch it again.*
- *Dimmed touch-screen buttons cannot be operated.*
- *Wipe off fingerprints using a glass cleaning cloth. Do not use chemical cleaners to clean the touch screen.*
- *The displayed image may become darker and moving images may be slightly distorted when the display is cold.*
- *When you look at the screen through polarized material such as polarized sunglasses, the screen may be dark and hard to see. If so, look at the screen from different angles, adjust the screen settings on the “Display” screen, or take off your sunglasses.*

## Inputting letters and numbers/List screen operation

When searching for an address or a name, or entering a memo, letters and numbers can be input via the touch screen.

### INFORMATION

*Keyboard layout can be changed. (See page 100.)*

- **To input letters**

To display the alphabet keys, touch “A-Z” or “À-ÿ”.



Enter letters by touching the alphabet keys directly.



Touching this button erases one letter. By holding this button, letters will continue to be erased.

On certain letter entry screens, letters can be entered in upper or lower case.



To enter in lower case.



To enter in upper case.

● **To input numbers and symbols**

To display the number keys and symbol keys, touch “0-9”.



Enter numbers and symbols by touching the number keys and symbol keys directly.

 : Touching this button erases one letter. By holding this button, letters will continue to be erased.

 : Touching this button displays other symbols.  


● **To display the list**



To search for an address or a name, touch “List”. Matching items from the database are listed even if the entered address or name is incomplete.

If the number of matches is four or less, the list is displayed without touching “List”.



**INFORMATION**

*The number of matching items is shown to the right side of the screen. If the number of matching items is more than 9,999, the system displays “\*\*\*\*” on the screen.*

● **List screen operation**

When a list is displayed, use the appropriate button to scroll through the list.



1A5010T

▲ 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 ▶ appears to the right of the item name, the complete name is too long for the display. Touch ▶ to scroll to the end of the name.



◀ Touch ◀ to scroll to the beginning of the name.



● **Sorting**

The order of a list displayed on the screen can be rearranged.

**TYPE A**



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**1. Touch "Sort by".**



1A5012T

**2. Select the desired sorting criteria.**

Sorting criteria are as follows:

“**Distance**”: To sort in the order of distance from your current location.

“**Date**”: To sort in the order of the date.

“**Category**”: To sort in the order of the category.

“**Icon**”: To sort in the order of the icons.

“**Name**”: To sort in order by name.

“**Attribute**”: To sort in order by attribute.

**TYPE B**



**“Dist. sort”**: To sort in the order of distance from the current vehicle location. The distance from current vehicle position up to the destination is displayed to the right of the name.

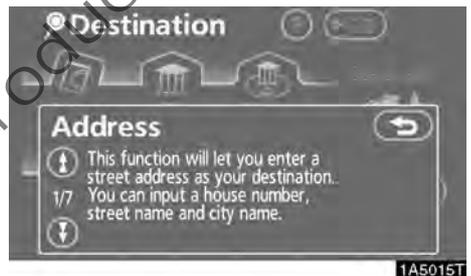
**“Name sort”**: To sort in alphabetical order by name.

**Function help**

Explanations for the functions of the “Destination”, “Setup” and “Menu” screens can be viewed.



**Touch ?**



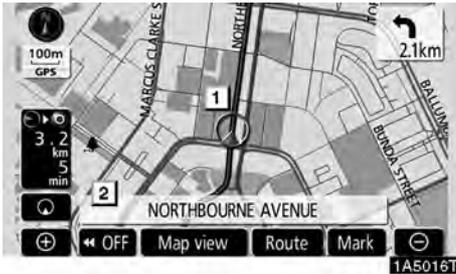
- : To view the previous page.
- : To view the next page.
- : To return to the previous screen.

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## Map screen operation — — Current position display

When starting the navigation system, the current position is displayed first.

This screen displays the current vehicle position and a map of the surrounding local area.



The current vehicle position mark (1) appears in the centre or bottom centre of the map screen.

A street name will appear on the bottom of the screen, depending on the scale of the map (2).

You can return to this map screen that shows your current position at any time from any screen by pushing the “MAP/VOICE” button.

While driving, the current vehicle position mark is fixed on the screen and the map moves.

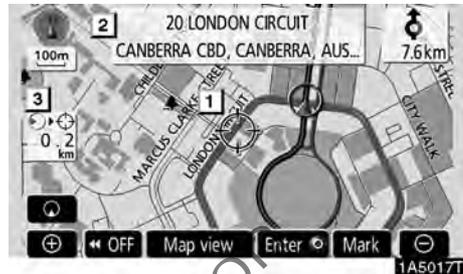
The current position is automatically set as the vehicle receives signals from the GPS (Global Positioning System). If the current position is not correct, it is automatically corrected after the vehicle receives signals from the GPS.

### INFORMATION

- **After 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.**
- **To correct the current position manually, see page 105.**

## — Screen scroll operation (one-touch scroll)

When any point on the map is touched, that point moves to the centre of the screen and is shown by the cursor mark (1).



Use the scroll feature to move the desired point to the centre of the screen for looking at a point on the map that is different from the current position of the vehicle.

If the finger is continuously held on the screen, the map will continue scrolling in that direction until the finger is removed.

A street name, city name, etc. of the touched point will be shown, depending on the scale of the map (2). Distance from the current position to the cursor mark (3) will also be shown.

After the screen is scrolled, the map remains centred at the selected location until another function is activated. The current vehicle position mark will continue to move along your actual route and may move off the screen. When the “MAP/VOICE” button is pushed, the current vehicle position mark returns to the centre of the screen and the map moves as the vehicle proceeds along the designated route.

### INFORMATION

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

- **To set the cursor position as a destination**

A specific point on the map can be set as a destination using the one-touch scroll function.



**Touch “Enter”.**

The screen changes and displays the map location of the selected destination and the road preference. (See “Starting route guidance” on page 56.)

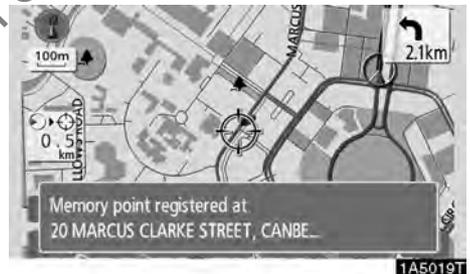
- **To register the cursor position as a memory point**

Memory point registration enables easy access to a specific point.



**Touch “Mark”.**

When you touch “Mark”, the following screen appears for a few seconds, and then the map screen returns.

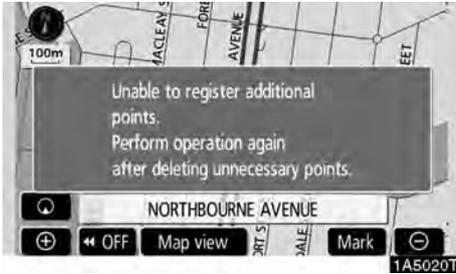


The registered point is shown by  on the map.

To change the icon or name, etc., see “—Editing memory points” on page 87.

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Up to 106 memory points can be registered. If there is an attempt to register more than 106, a message appears for confirmation.



- To see information about the icon where the cursor is set



To display information about an icon, set the cursor on it.

### POI INFORMATION

When the cursor is set on a POI icon, the name and “Info.” are displayed on the top of the screen.



### Touch “Info.”



Information such as the name, address, and phone number are displayed.

If “Enter” is touched, the position of the cursor is set as a destination.

If there is already a set destination, “Add to” and “Replace” are displayed.

“Add to”: To add a destination.

“Replace”: To delete the existing destinations and set a new one.

To register this POI as a memory point, touch “Mark”. (See “—Registering memory points” on page 86.)

If is touched, the registered telephone number can be called.

### INFORMATION

*The desired point of interest can be displayed on the map screen. (See “—Display POI icons” on page 71.)*

### MEMORY POINT INFORMATION

When the cursor is set on a memory point icon, the name and “Info.” are displayed on the top of the screen.



Touch “Info.”.



Information such as the name, address, position and phone number are displayed.

If “Enter” is touched, the position of the cursor is set as a destination.

If there is already a set destination, “Add to” and “Replace” are displayed.

“Add to”: To add a destination.

“Replace”: To delete the existing destinations and set a new one.

To edit a memory point, touch “Edit”. (See “—Editing memory points” on page 87.)

To delete a memory point, touch “Delete”.

If is touched, the registered telephone number can be called.

### DESTINATION INFORMATION

When the cursor is set on a destination icon, the name and “Info.” are displayed on the top of the screen.



Touch “Info.”.



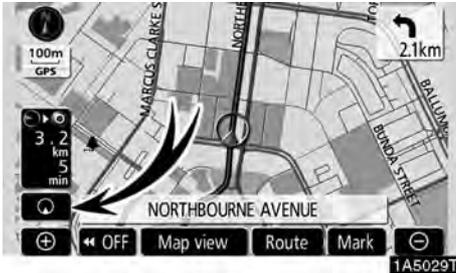
Information such as the name, address, and phone number are displayed.

To delete a destination, touch “Delete”.

If is touched, the registered telephone number can be called.

**— Switching the screens**

Any one of the screen configurations can be selected.



**1. Touch this button to display the following screen.**



**2. To select the desired screen configuration, touch one of the following buttons.**

Depending on the conditions, certain screen configuration buttons cannot be selected.

-  : To display the single map screen. (See page 33.)
-  : To display the dual map screen. (See page 33.)
-  : To display the compass mode screen. (See page 34.)
-  : To display the turn list screen. (See page 61.)
-  : To display the arrow screen. (See page 61.)
-  : To display the intersection guidance screen or the guidance screen on the freeway. (See page 60.)

Not for reproduction

● **Screen configurations**

**SINGLE MAP**

This is a regular map screen.

While on a different screen, touching  will display the single map screen.

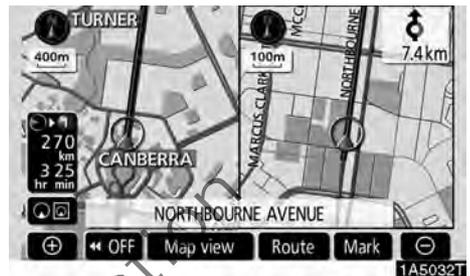


The screen shows the single map.

**DUAL MAP**

A map can be displayed split in two.

While on a different screen, touching  will display the dual map screen.



The screen shows the dual map. The map on the left is the main map.

The right side map can be edited.

**Touch the right side map to display the edit screen.**



This screen can perform the following procedures.

1. Changing the map scale
2. Displaying the POI icons
3. Changing the orientation of the map

**Touch "OK" when you complete editing.**

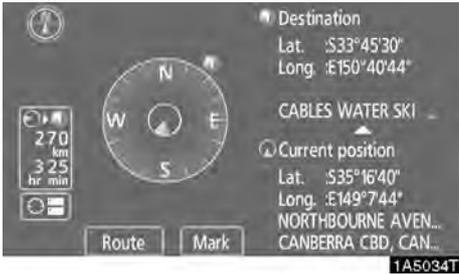
The screen returns to the dual map screen.

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**COMPASS MODE**

Current vehicle position is indicated with a compass, not with a map.

While on a different screen, touching  will display the compass mode screen.



Information about the destination and current position, as well as a compass, is displayed on the screen.

The destination mark is displayed in the direction of the destination. When driving refer to the longitude and latitude coordinates, and the compass, to make sure that your vehicle is headed in the direction of the destination.

**INFORMATION**

*When the vehicle travels out of the coverage area, the guidance screen changes to the compass mode screen.*

**— Map scale**



Touch  or  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 range is 50 m to 400 km.

Touch  or  until the scale bar changes. By continuing to touch the button, the scale bar changes smoothly.

The scale of the map display can be changed by touching the scale bar directly. It is not available while driving.

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

**INFORMATION**

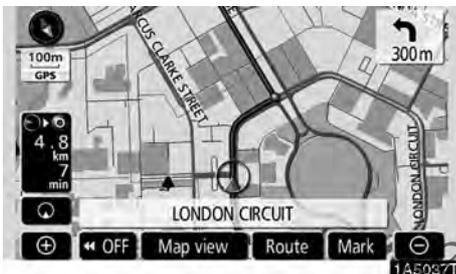
*When the map scale is at the maximum range of 400 km,  is not shown.*

*When the map scale is at the minimum range of 50 m,  is not shown.*

## — Orientation of the map



### ► North-up screen



### ► Heading-up screen

The orientation of the map can be changed from North-up to Heading-up by touching the orientation 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 vehicle travel is always up. A red arrow indicates North.

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# SECTION 2

## DESTINATION SEARCH

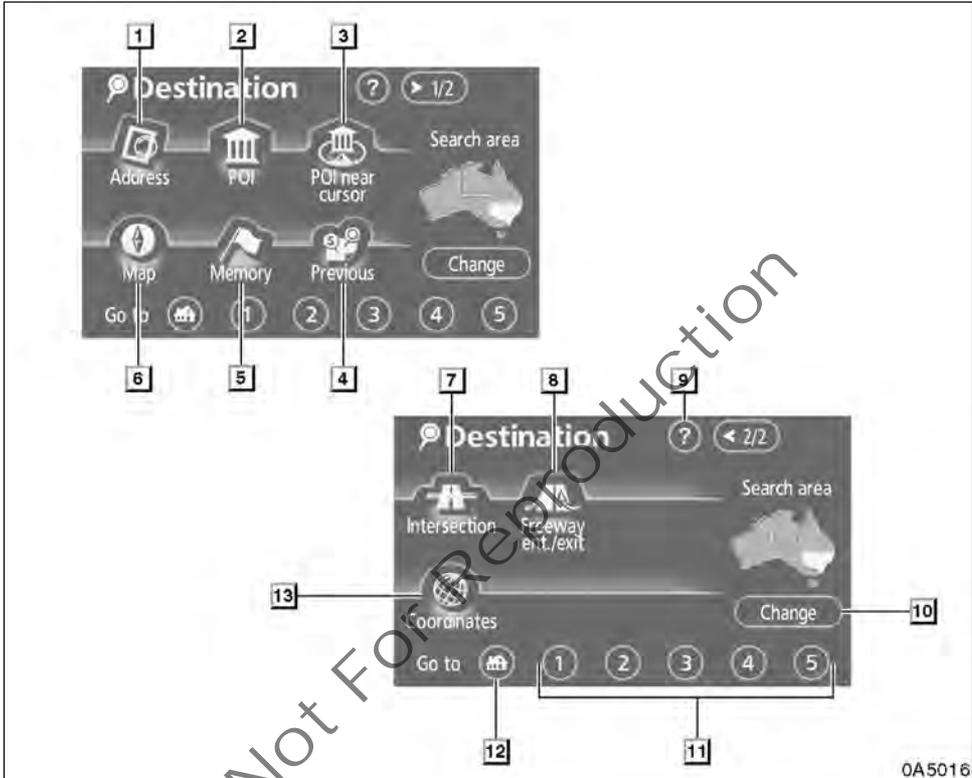
- Quick reference (“Destination” screen) ..... 38
- **Destination search** ..... 39
  - Selecting the search area ..... 40
  - Destination search by Home ..... 41
  - Destination search by Quick access ..... 42
  - Destination search by “Address” ..... 42
  - Destination search by “POI\*” ..... 46
  - Destination search by “POI\* near cursor” ..... 49
  - Destination search by “Memory” ..... 52
  - Destination search by “Previous” ..... 52
  - Destination search by “Map” ..... 53
  - Destination search by “Intersection” ..... 53
  - Destination search by “Freeway ent./exit” ..... 54
  - Destination search by “Coordinates” ..... 55
- Starting route guidance ..... 56

Not For Reproduction

\*: Point of Interest

**Quick reference (“Destination” screen)**

The “Destination” screen allows you to search for a destination. To display the “Destination” screen, push the “DEST” button.

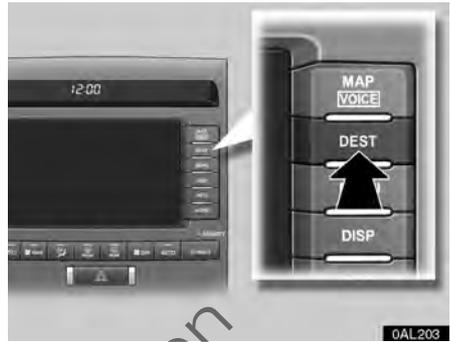


- 1 “Address”**  
A house number and the street address can be input by using the input keys. . . . . 42
- 2 “POI”**  
Select one of the many POIs (Points of Interest) that have already been stored in the system’s database. . . . . 46
- 3 “POI near cursor”**  
A destination can be selected from the POI category. . . . . 49
- 4 “Previous”**  
A destination can be selected from any of the last 100 previously set destinations and from the previous starting point. . . . . 52

- 5 “Memory”**  
The location can be selected from the registered “Memory points”. (To register memory points, see “ — Registering memory points” on page 86.) . . . . . 52
- 6 “Map”**  
A destination can be selected simply by touching the location on the displayed map. . . . . 53
- 7 “Intersection”**  
The names of two intersecting streets can be entered. This is helpful if only the general vicinity, not the specific address, is known. . . . . 53

- 8 “Freeway ent./exit”**  
The name of a freeway (interstate) entrance or exit can be entered. . . . . 54
- 9 “?”**  
Function help for the “Destination” screen can be viewed on this screen. . . . . 27
- 10 “Change”**  
To change the search area, touch this button. . . . . 40
- 11 Quick access touch–screen button**  
One of 5 preset destinations can be selected by touching the screen directly. To use this function, it is necessary to set the “Quick access” for each memory point. (To register a “Quick Access”, see “ — Editing memory points” on page 87.) . . . . . 42
- 12 Home touch–screen button**  
A personal home address can be selected without entering the address each time. To use this function, it is necessary to set “Home” for the memory point. (To register “Home”, see “ — Registering home” on page 93.) . . . . . 41
- 13 “Coordinates”**  
A destination can be set by using latitude and longitude as coordinates. . . . . 55

**Destination search —**



Push the “DEST” button and the “Destination” screen appears.



You can use one of 11 different methods to search your destination. (See pages 41 through 55.)

**INFORMATION**

*When searching the destination, the response to the touch–screen button may be slow.*

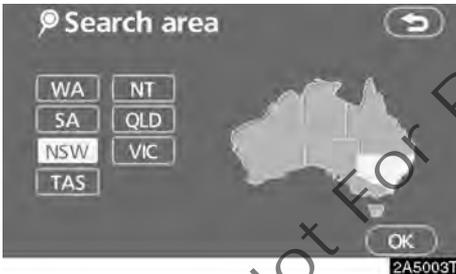
— Selecting the search area

**SELECTING THE SEARCH AREA ON THE DESTINATION SCREEN**

1. Push the “DEST” button.



2. Touch “Change” on the “Destination” screen to display a map divided into 7 areas. (For map database information and updates, see “Map database information and updates” on page 276.)



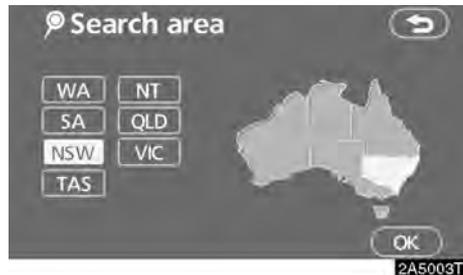
3. Touch the button indicating the states or territories to select a search area.  
 4. Touch “OK” and the “Destination” screen returns.

**SELECTING THE SEARCH AREA ON THE INPUT SCREEN**

Change the search area in order to set a destination from a different area by using “Address”, “POI”, “Freeway ent./exit” or “Intersection”.



1. Touch the search area button like “NSW” on the input screen to display a map divided into 7 areas. (For map database information and updates, see “Map database information and updates” on page 276.)



2. Touch the button indicating the states or territories to select a search area.  
 3. Touch “OK” and the previous screen returns.

Button	States or Territories
"WA"	Western Australia
"NT"	Northern Territory
"SA"	South Australia
"QLD"	Queensland
"NSW"	New South Wales Australian Capital Territory (ACT)
"VIC"	Victoria
"TAS"	Tasmania

## — Destination search by Home

1. Push the "DEST" button.



2. Touch the home touch-screen button on the "Destination" screen.

The screen changes and displays the map location for home and the road preference. (See "Starting route guidance" on page 56.)

To use this function, it is necessary to set "Home" for the memory point. (To register "Home", see page 12.)

### **INFORMATION**

***Guidance starts from the current vehicle position to your home if "Enter" is touched even while driving.***

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## — Destination search by Quick access

1. Push the “DEST” button.



2. Touch any of the quick access touch-screen buttons on the “Destination” screen.

The screen changes and displays the map location of the quick access point and the road preference. (See “Starting route guidance” on page 56.)

To use this function, it is necessary to set “Quick access” for each memory point. (To register “Quick access”, see page 14.)

### **INFORMATION**

**Guidance starts from the current vehicle position to the quick access point if “Enter” is touched even while driving.**

## — Destination search by “Address”

There are 2 ways to input a destination by address.

1. Push the “DEST” button.
2. Touch “Address” on the “Destination” screen.



(a) Inputting a street name



1. Input the street name.



2. Touch the button of the desired street name.

The screen changes and displays the map location of the selected destination and the road preference. (See “Starting route guidance” on page 56.)

If the same street exists in more than one city, the current screen changes to the city list screen.



3. Select or enter the desired city.

“Input name”: To narrow down the listed items by inputting the city name.



4. Input the house number.

If the house number list screen appears, an address range on that screen can be selected.



If the above screen appears, an address range on the screen can be selected.



If the same street exists in more than one city, the current screen changes to the city list screen.

### (b) Selecting a city to search



### Touch "City".



To search by city, the following three methods are possible.

1. Input the city name
2. Select from the nearest 5 cities
3. Select from the last 5 cities

### INFORMATION

- To change the search area, touch "Search area".
- To cancel the city setting, touch "Any city".

**INPUTTING THE CITY NAME**

1. Touch “Input city name”.



2. Input the city name.



3. Touch the button of the desired city name from the displayed list.

“Map”: To display the selected destination and the road preference. (See “Starting route guidance” on page 56.)

The current screen changes to the screen for inputting a street name. After inputting a street name, the screen may change to the screen for inputting a house number or a street map.

**SELECTING FROM THE NEAREST 5 CITIES**

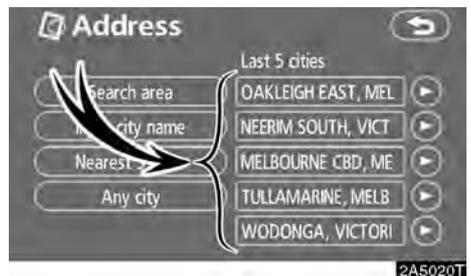
1. Touch “Nearest 5 cities”.



2. Touch the button of the desired city name from the displayed list.

The current screen changes to the screen for inputting a street name. After inputting a street name, the screen may change to the screen for inputting a house number or a street.

**SELECTING FROM THE LAST 5 CITIES**



- Touch the button of the desired city name.

If the navigation has not be used, no cities will be displayed on the screen.

The current screen changes to the screen for inputting a street name. After inputting a street name, the screen may change to the screen for inputting a house number or a street map.

— Destination search by “POI”

1. Push the “DEST” button.
2. Touch “POI” on the “Destination” screen.



3. Input the name of the Point of Interest.



4. Touch the button of the desired destination.

The screen changes and displays the map location of the selected destination and the road preference. (See “Starting route guidance” on page 56.)

When inputting the name of a specific Point of Interest, and there are two or more sites with the same name, the list screen is displayed.



- Touch the button of the desired destination.

If the same name exists in more than one city, a search can be performed more easily with “City” and “Category”. (See “(a) Selecting a city to search” on page 47 and “(b) Selecting from the categories” on page 48.)

<b>INFORMATION</b>
<i>The desired point of interest can be displayed on the map screen. (See “ — Display POI icons” on page 71.)</i>

(a) Selecting a city to search



Touch "City".



To search by city, the following three methods are possible.

1. Input the city name
2. Select from the nearest 5 cities
3. Select from the last 5 cities

**INFORMATION**

- To change the search area, touch "Search area".
- To cancel the city setting, touch "Any city".

INPUTTING THE CITY NAME

1. Touch "Input city name".



2. Input the city name.



3. Touch the button of the desired city name from the displayed list.

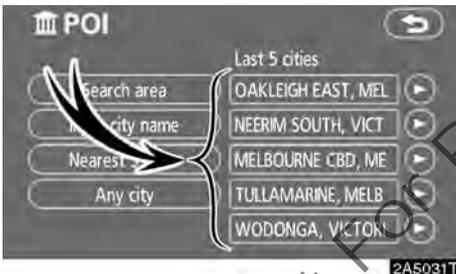
**SELECTING FROM THE NEAREST 5 CITIES**

1. Touch “Nearest 5 cities”.



2. Touch the button of the desired city name.

**SELECTING FROM THE LAST 5 CITIES**



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

If the navigation has not been used, no cities will be displayed on the screen.

**(b) Selecting from the categories**



**Touch “Category”.**



If the desired POI category is on the screen, touch the name to display a detailed list of the POI category.

If the desired POI category is not on the screen, touch “**List all categories**” to list all POI categories.



When the desired category is touched, the POI name list or POI name input screen is displayed.

## — Destination search by “POI near cursor”

The destination can be set by selecting the POI category and the search point.

1. Push the “DEST” button.
2. Touch “POI near cursor” on the “Destination” screen.



3. Set the search point by the following method:

1. Input the city centre
2. Set the current position as the search point
3. Set the search point via the map screen
4. Set the search point from any destination

It is possible to display the names of POIs located within approximately 32 km from the selected search point.

### INPUTTING THE CITY CENTRE

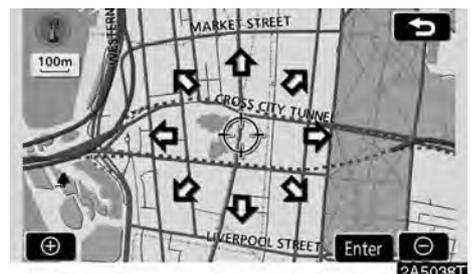
1. Touch “Input city centre”.



2. Input the city centre name.



3. Touch the button of the desired city centre name.



When an arrow facing the desired point is touched, the map scrolls in that direction. Releasing the finger from the arrow will stop the scrolling

4. Touch “Enter”.

The search point is set and the “POI near cursor” screen will be displayed.

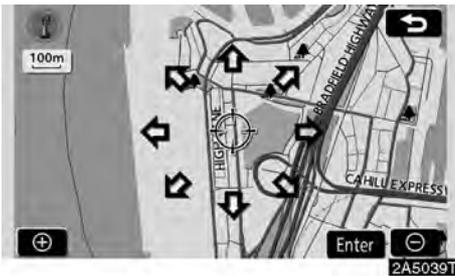
### SETTING THE CURRENT POSITION AS THE SEARCH POINT

#### Touch “Current position”.

The search point is set at the current position, and the “POI near cursor” screen is displayed.

### SETTING THE SEARCH POINT VIA THE MAP SCREEN

#### 1. Touch “Map”.



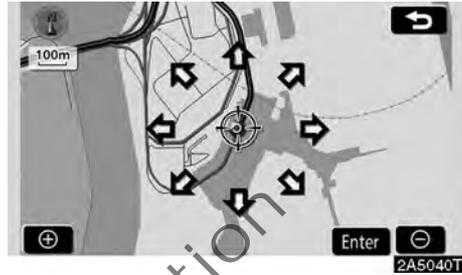
When an arrow facing the desired point is touched, the map scrolls in that direction. Releasing the finger from the arrow will stop the scrolling.

#### 2. Touch “Enter”.

The search point is set and the “POI near cursor” screen will be displayed.

### SETTING THE SEARCH POINT FROM DESTINATIONS

#### 1. Touch the destination buttons at the bottom of the screen.



When an arrow facing the desired point is touched, the map scrolls in that direction. Releasing the finger from the arrow will stop the scrolling.

#### 2. Touch “Enter”.

The search point is set and the “POI near cursor” screen will be displayed.

● **To search POIs near the search point**

When the search point is set, the “POI near cursor” screen will be displayed.



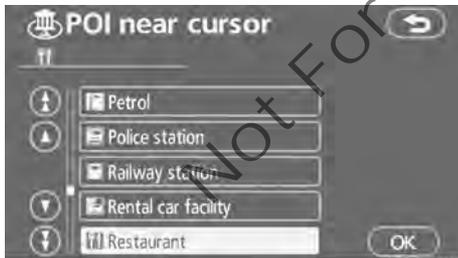
2A5041T

**Select the desired POI categories.**

“**List**”: If the desired POI categories have already been selected, a list of POI will be displayed from among the selected categories.

The selected category icon appears on the top left of the screen.

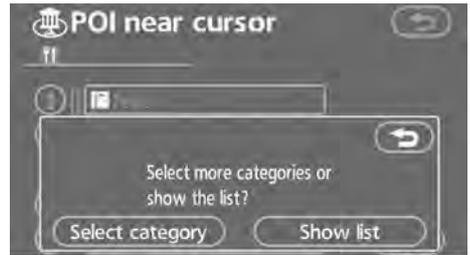
If the desired POI category is not on the screen, touch “**List all categories**” to list all POI categories.



2A5042T

**Select the desired POI categories from the list and touch “OK”.**

The selected category icon appears on the top left of the screen.



2A5043T

“**Select category**”: To return to the POI category selection screen.

“**Show list**”: To display the list of POIs in the selected categories.



2A5044T

By touching the button of the desired item, the screen changes and displays the map location of the selected destination and the road preference. (For details, see “Starting route guidance” on page 56.)

The direction arrows of POIs are displayed only when the current position is set as the search point.

“**On route**”: When the indicator is illuminated by touching this button, the list of the items searched along the route is displayed.

### — Destination search by “Memory”

1. Push the “DEST” button.
2. Touch “Memory” on the “Destination” screen.

A list of registered memory points is displayed. (To register or edit memory points, see “Memory points” on page 85.)



3. Touch the button of your desired memory point.

The screen changes and displays the map location of the selected destination and the road preference. (See “Starting route guidance” on page 56.)

### — Destination search by “Previous”

1. Push the “DEST” button.
2. Touch “Previous” on the “Destination” screen.



The previous starting point and up to 100 previously set destinations are displayed on the screen.

3. Touch the button of the desired destination.

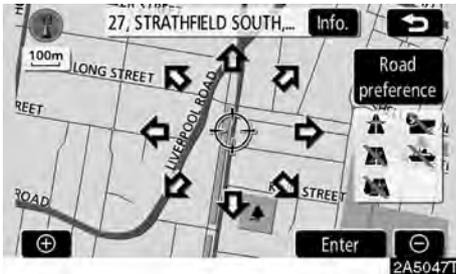
The screen changes and displays the map location of the selected destination and the road preference. (See “Starting route guidance” on page 56.)

#### **INFORMATION**

*The list of previous destinations can be deleted when the vehicle is stopped. (See “ — Delete previous points” on page 98.)*

## — Destination search by “Map”

1. Push the “DEST” button.
2. Touch “Map” on the “Destination” screen.



The screen changes and displays the map location that was previously displayed just before the destination input operation and the road preference. (See “Starting route guidance” on page 56.)

### INFORMATION

**Guidance starts if “Enter” is touched even while driving. However, the cursor cannot be moved.**

## — Destination search by “Intersection”

1. Push the “DEST” button.
2. Touch “Intersection” on the second page of the “Destination” screen.

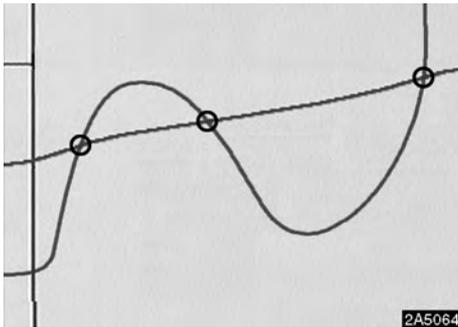


3. Input the name of the two intersecting streets which are located near the destination to be set.



4. Touch the button of the desired item.  
After inputting the two intersecting streets, the screen changes and displays the map location of the selected destination and the road preference. (See “Starting route guidance” on page 56.)

— Destination search by “Freeway ent./exit”



2A5064

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 road preference. (See “Starting route guidance” on page 56.)

1. Push the “DEST” button.
2. Touch “Freeway ent./exit” on the seconds page of the “Destination” screen.



2A5050T

Be sure to use the complete name of the freeway, including the hyphen, when entering the destination.



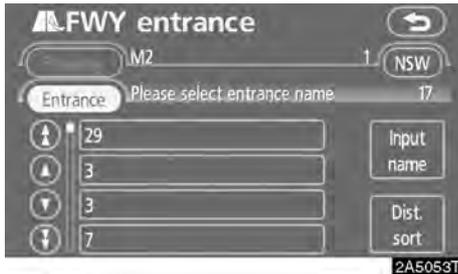
2A5051T

3. Select the desired freeway by touching the button.



2A5052T

4. Either a freeway “Entrance” or “Exit” can be selected.



**5. Touch the button of the desired entrance or exit name.**

The screen changes and displays the map location of the selected destination and the road preference. (See “Starting route guidance” on page 56.)

“**Input name**”: An applicable list is displayed by touching this button and inputting the name.

## — Destination search by “Coordinates”

1. Push the “DEST” button.
2. Touch “Coordinates” on the second page of the “Destination” screen.



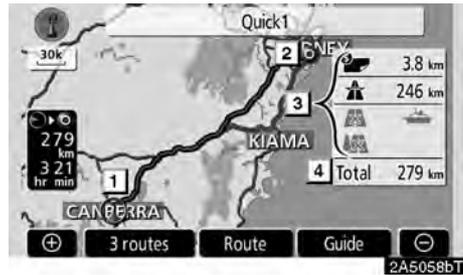
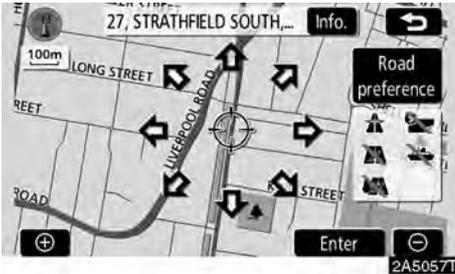
3. Input the latitude and the longitude.
4. When the input is finished, touch “OK”.

By touching the button of the desired point, the screen changes and displays the map location of the selected destination and the road preference. (See “Starting route guidance” on page 56.)

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## Starting route guidance

After inputting the destination, the screen changes and displays the map location of the selected destination and the road preference.



- 1 Current position
- 2 Destination point
- 3 Type of the route and the distance
- 4 Distance of the entire route

3. To start guidance, touch “Guide”.

“3 routes”: To select the desired route from three possible routes. (See page 58.)

“Route”: To change the route. (See pages 65 and 67.)

1. When an arrow facing the desired point is touched, the map scrolls in that direction.

Releasing the finger from the arrow will stop the scrolling.

2. Touch “Enter”.

The system starts route search and displays recommended routes.

If there is already a set destination, “Add to ” and “Replace ” are displayed.

“Add to ”: To add a destination.

“Replace ”: To delete the existing destinations and set a new one.

“Road preference”: To change the road preference. (See page 57.)

“Info.”: If this button is displayed on the top of the screen, touch it to view items such as name, address, and phone number.

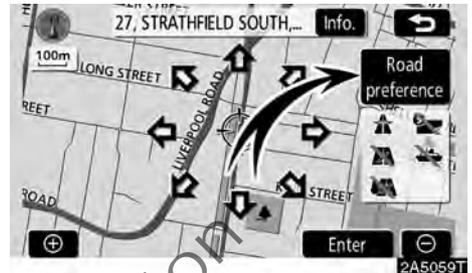
**INFORMATION**

- *Guidance can be suspended or resumed. (See “Suspending and resuming guidance” on page 80.)*
- *If “Guide” is touched until a beep sounds, Demo mode will start. Push the “MAP/VOICE” button to finish demo mode.*
- *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 nor 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 on a map with a scale larger than 800 m, the map scale changes to 800 m automatically. Set the destination again.*
- *If a destination is entered, the road nearest to the point you selected is set as the destination.*

**CAUTION**

Be sure to obey traffic regulations and keep road conditions in mind while driving. If a traffic sign on the road has been changed, the route guidance may provide wrong information.

- To change the route before starting guidance

**ROAD PREFERENCE**

1. You can change road preference by touching “Road preference”.



2. Select the desired route preference by touching the button.

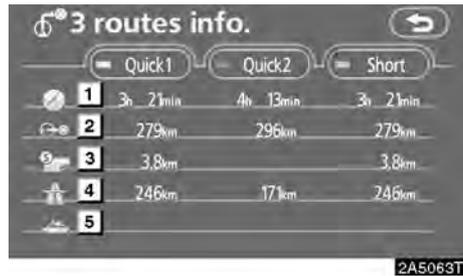
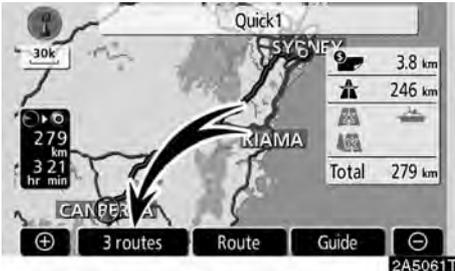
When searching for a route, the system will avoid routes when the indicator is off.

3. After choosing the desired route preference, touch “OK”.

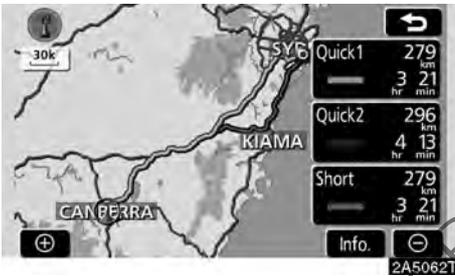
**INFORMATION**

- *Even if the “Allow freeway” indicator is dimmed, the route cannot avoid including a freeway in some cases.*
- *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.*

3 ROUTES SELECTION



1. To select the desired route from three routes, touch “3 routes”.



- 1 Time necessary for the entire trip
- 2 Distance of the entire trip
- 3 Toll road
- 4 Freeway
- 5 Ferry

2. Touch “Quick1”, “Quick2” or “Short” to select the desired route.

“Quick1”: Recommended route.  
This route is indicated by an orange line.

“Quick2”: Alternative route.  
This route is indicated by a purple line.

“Short”: A route by which you can reach the destination in the shortest distance.  
This route is indicated by a green line.

“Info.”: To display the following information about each of the 3 routes.

# SECTION 3

## ROUTE GUIDANCE

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\*: Point of Interest

## Route guidance screen

During route guidance, various types of guidance screens can be displayed depending on conditions.

### ● Screen layout



- 1 Distance to the next turn and the arrow indicating turning direction
- 2 Current street name
- 3 Distance and travel/arrival time to the destination
- 4 Current position
- 5 Guidance route

### INFORMATION

- If the vehicle goes off the guidance route, the route is searched again.
- For some areas, the roads have not been completely digitized in our database. For this reason, the route guidance may select road that should not be traveled on.
- When you arrive at your destination, the destination name will be displayed on the top of the screen. Touching "OFF" clears the display.

### ● When approaching an intersection

When the vehicle approaches an intersection, the intersection guidance screen will be displayed.



- 1 Next street name
- 2 Distance to the intersection
- 3 Current position

“OFF”: The intersection guidance screen disappears and the map screen appears.

When touching  or pushing the “MAP/VOICE” button, the intersection guidance screen reappears.

● Other screens

**TURN LIST SCREEN**

On this screen, the list of turns on the guidance route can be viewed.

Touching  during guidance displays the turn list.



- 1 Next street name or destination name
- 2 Turn direction
- 3 Distance between turns
- 4 Current street name

**ARROW SCREEN**

On this screen, information about next turns on the guidance route can be viewed.

Touching  during guidance displays the arrow screen.

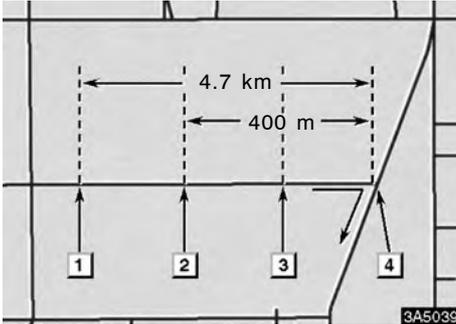


- 1 Exit number, street name containing number or next street name
- 2 Turn direction
- 3 Distance between turns
- 4 Current street name

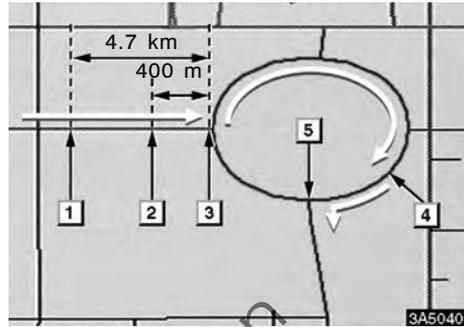
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## Typical voice guidance prompts

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



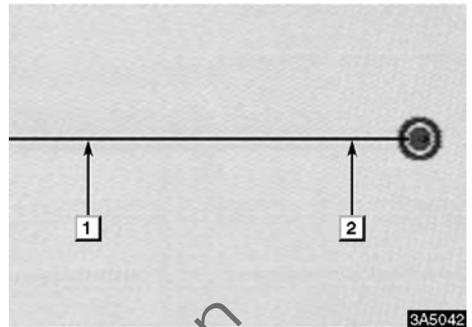
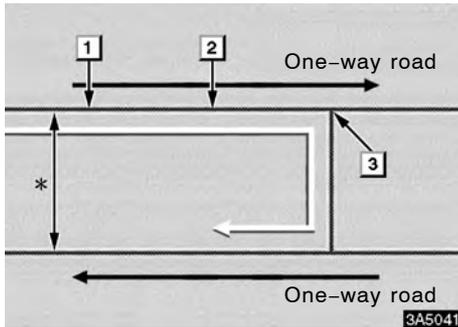
- 1 "Proceed about 5 kilometers."
- 2 "In 400 meters, right turn."
- 3 "Right turn coming up."
- 4 (Beep sound only)



- 1 "Proceed about 4 kilometers to the round about."
- 2 "In 800 meters round about coming up, then take 3rd exit."
- 3 "The 3rd exit coming up."
- 4 "The exit coming up."
- 5 (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.*



\*: The system indicates a U-turn if the distance between two one-way roads (of opposite directions) is less than 50 m.

- 1  "In 800 meters, make a U-turn if possible."
- 2  "Make a U-turn if possible."
- 3  (Beep sound only)

The system announces the approach to the final destination.

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

**INFORMATION**

- *If the system cannot determine the current vehicle position correctly (in cases of poor GPS signal reception), the voice guidance may be made early or delayed.*
- *If you did not hear the voice guidance command, push the "MAP/VOICE" button to hear it again.*
- *To adjust the voice guidance volume, see "Volume" on page 81.*

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## Distance and time to destination



Estimated travel time is displayed.



Estimated arrival time is displayed.



To switch to estimated arrival time.



To switch to estimated travel time.



Displayed while driving off the guidance route. The destination direction is indicated by an arrow.

When the vehicle is on the guidance route, the distance and the estimated travel/arrival time to the destination are displayed. When the vehicle is not on the guidance route, the distance and the direction of the destination are displayed.

When driving on the guidance route and more than one destination is set, the distance and the estimated travel/arrival time from the current position to each destination are displayed.

1. Touch this button to display the following screen.



2. Touch the number button to display the desired destination.

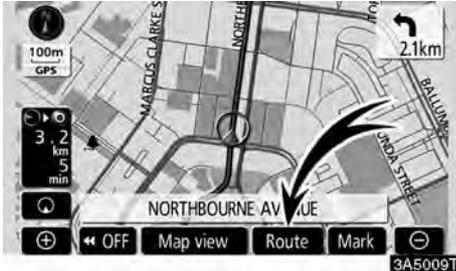
The distance, the estimated travel time and the estimated arrival time from the current position to the selected destination are displayed.

### INFORMATION

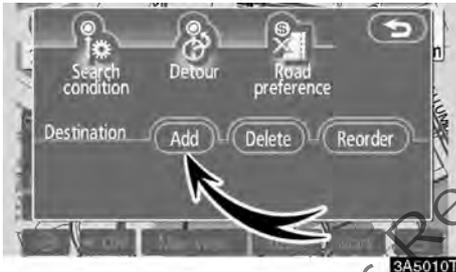
**When the vehicle is on the guidance route, the distance measured along the route is displayed. Travel time and arrival time is calculated based on the set vehicle speed information. (See page 99.) However, when the vehicle is not on the guidance route, the distance is the linear distance between the current position and the destination.**

## Setting and deleting destination — — Adding destinations

Adding destinations and searching again for the routes can be done.



1. Touch “Route”.



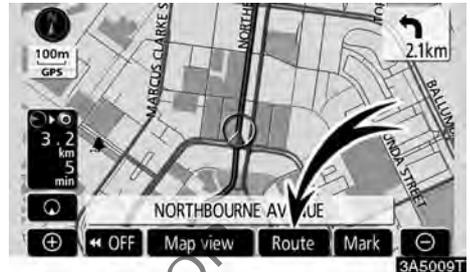
2. Touch “Add”.
3. Input an additional destination in the same way as the destination search. (See “Destination search” on page 39.)



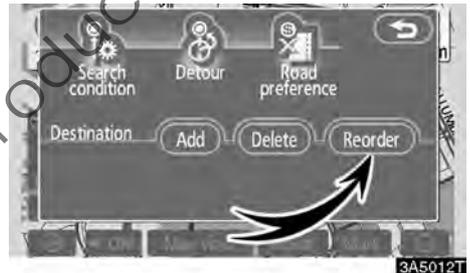
4. Touch the desired “Add” to determine the arrival order of the additional destination.

## — Reordering destinations

When more than one destination is set, you can change the arrival order of the destinations.



1. Touch “Route”.



2. Touch “Reorder”.



**3. Select the destination in the order of arrival by touching the destination button.**

Reordered number of arrival is displayed on the right side of the screen.

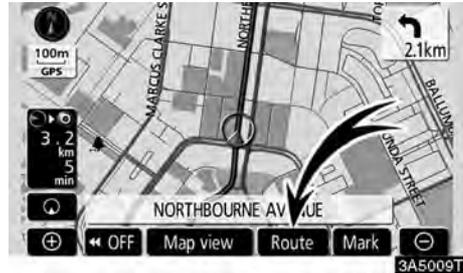
Touching **“Undo”** will cancel each selected order number from the previously input number.

**4. After selecting the destinations, touch “OK”.**

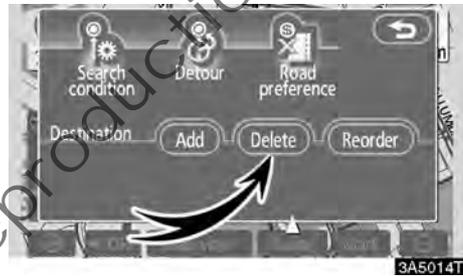
The system searches for the guidance route again, and displays the entire route. Even if **“OK”** is not touched, the entire route is displayed automatically within a few seconds when the order is fixed.

## — Deleting destinations

A set destination can be deleted.



**1. Touch “Route”.**



**2. Touch “Delete”.**

When more than one destination is set, a list will be displayed on the screen.



**3. Touch the destination for deletion.**

“Delete all”: To delete all destinations on the list.

A message appears to confirm the request to delete.

**4. To delete the destination(s), touch “Yes”.**

If “Yes” is touched, the data cannot be recovered.

If “No” is touched, the previous screen will return.

**5. If more than one destination is set, touch “OK” after deleting the destinations.**

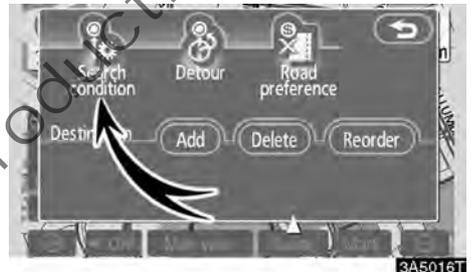
The system searches for the guidance route again, and displays the entire route.

**Setting route —  
— Search condition**

You can designate the route conditions of the route to the destination.



**1. Touch “Route”.**



**2. Touch “Search condition”.**



**3. Touch “Quick”, “Quick1”, “Quick2” or “Short” and touch “OK”.**



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

“**Guide**” : To start guidance.

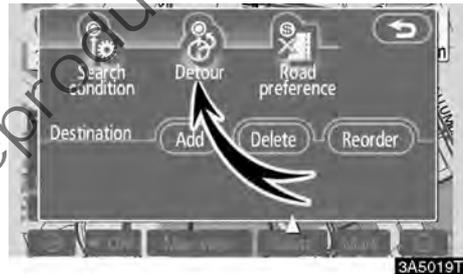
“**Route**” : To change a route. (See pages 65 and 67.)

### — Detour setting

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, or an accident, etc.



1. Touch “Route”.



2. Touch “Detour”.

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**3. Select the button below to select the desired detour distance.**

**“1 km”, “3 km” or “5 km”:** Touch one of these buttons to start the detour process. After detouring, the system returns to the original guidance route.

**“Whole route”:** By touching this button, the system will calculate an entire new route to the destination.



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

- 1** This position indicates the location of a traffic jam caused by road repairs or an accident.
- 2** This route indicates the detour suggested by the system.

### INFORMATION

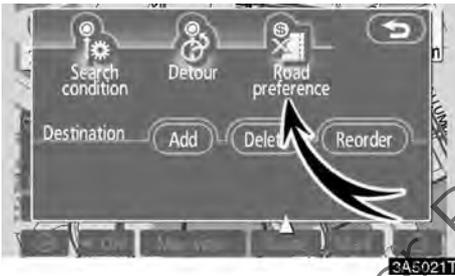
- *When your vehicle is on a freeway, the detour distance selections are 5, 15, and 25 km.*
- *The system may not be able to calculate a detour route depending on the selected distance and surrounding road conditions.*

## — Road preference

A number of choices are provided on the conditions which the system uses to determine the route to the destination.



1. Touch "Route".



2. Touch "Road preference" to change the conditions that determine the route to the destination.



3. Select the desired road preference by touching the button.

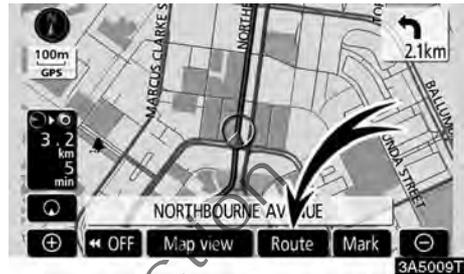
When searching for a route, the system will avoid routes when the indicator is off.

4. After choosing the desired road preference, touch "OK".

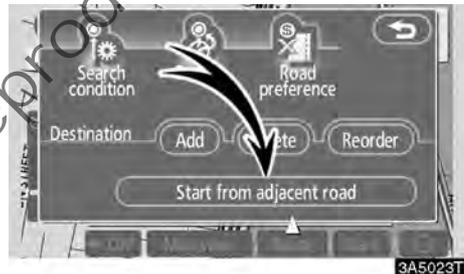
## — Starting route from adjacent road

You can start the route guidance from the adjacent road.

(ex. When route guidance is set on the freeway, but the vehicle is driven parallel along the freeway.)



1. Touch "Route".



2. Touch "Start from adjacent road".

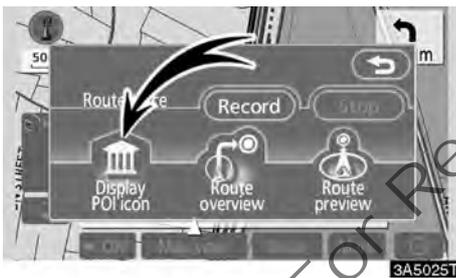
When there is no adjacent road, this button will not be displayed.

## Map view — — Display POI icons

Points of Interest such as petrol 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.



1. Touch “Map view”.



2. Touch “Display POI icon” to display a particular type of Point of Interest on the screen.



A screen with a limited choice of Points of Interest will be displayed. (To change the displayed POI, see page 102.)

### ● Selecting POIs to be displayed

Up to 5 categories of icons can be displayed on the screen.



Touch the desired Point of Interest category to display POI location symbols on the map screen.

By selecting the desired POI category and then touching “OK”, the selected POI icons are displayed on the map screen.

To turn off the Points of Interest icon on the map screen, touch “Delete”.

“Other POI’s”: If the desired Point of Interest can not be found on the limited choice screen, touch this button.

“Local POI list”: When searching for the nearest Point of Interest, select the desired category button then touch this button. The choose one of the categories. The system will list the points within 32 km. (See page 72.)

Touch “Other POI’s” on the “Display POI icons” screen.

When a Point of Interest category is selected from either the limited list or the complete list, the screen will display symbols of those locations on the map screen.

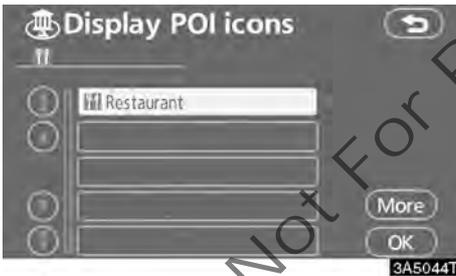


### Select the desired POI categories.

The selected category icon appears on the top left of the screen.

By selecting the desired POI category and then touching “OK”, the selected POI icons are displayed on the map screen.

If the desired POI category is not on the screen, touch “List all categories” to list all POI categories.



### Select the desired POI categories from the list.

The selected category icon appears on the top left of the screen.

By selecting the desired POI category and then touching “OK”, the selected POI icons are displayed on the map screen.

To return to the POI category selection screen, touch “More”.

- To select from the entire POI list

Points of Interest that are within 32 km of the current position will be listed from among the selected categories.



### 1. Touch “Local POI list” on the “Display POI icons” screen.



### 2. Touch the button of the desired Point of Interest.

The selected Points of Interest are displayed on the map screen.

“On route”: When the indicator is illuminated by touching this button, the list of the items searched along the route is displayed.

● **To set a POI as a destination**

You can select one of the Points of Interest icons on the map screen as a destination and use it for route guidance.



**1. Directly touch the Point of Interest icon that you want to set as a destination.**

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

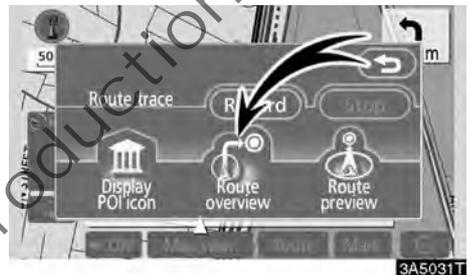
**2. When the desired Point of Interest overlaps with the cursor, touch “Enter”.**

The screen changes and displays the map location of the selected destination and road preference. (See “Starting route guidance” on page 56.)

— **Route overview**



**1. Touch “Map view”.**



**2. Touch “Route overview”.**



The entire route from the current position to the destination is displayed.

“**Guide**”: To start guidance.

“**Route**”: To change the route. (See pages 65 and 67.)

“**Turn list**”: The following screen displays the list of the roads up to the destination.



You can scroll through the list of roads by touching ▲ or ▼. 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 names will be displayed in order from the starting point, along with the distance to the next turn.

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

#### Touch “Map” on the “Turn list” screen.

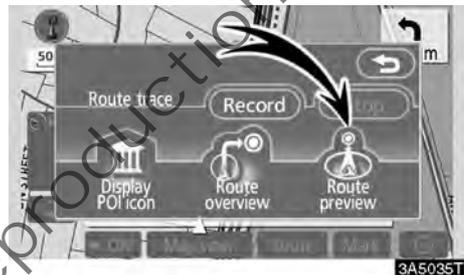
The point which you choose is displayed on the map screen.



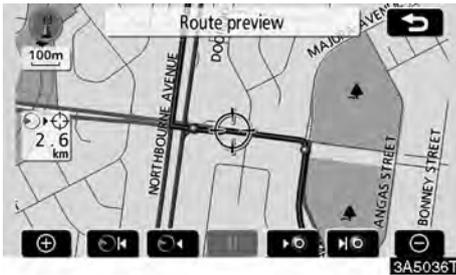
## — Route preview



### 1. Touch “Map view”



### 2. Touch “Route preview”.



-  : To indicate the next destination.
-  : To preview the route to the next destination.
-  : To preview the route to the next destination in fast-forward mode.
-  : To stop the preview.
-  : To review the route to the previous destination or starting point.
-  : To review the route to the previous destination or starting point in fast-forward mode.
-  : To indicate the previous destination or starting point.

## — Route trace

It is possible to store the traveled route up to 200 km and retrace the route on the display.

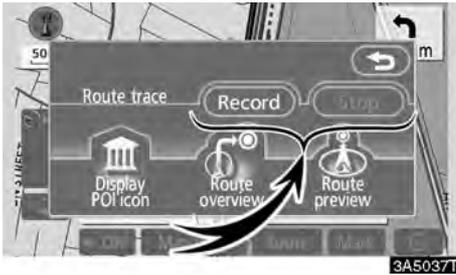
### INFORMATION

*This feature is available on the map with more detailed map scale than 50 km.*



Touch "Map view".

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“**Record**”: To start recording the route trace.

“**Stop**”: To stop recording the route trace.

If you touch “**Stop**” to display the following screen.



Touching “**Yes**” stops recording and the route trace remains displayed on the screen.

Touching “**No**” stops recording and the route trace is erased.

# SECTION 4

## ADVANCED FUNCTIONS

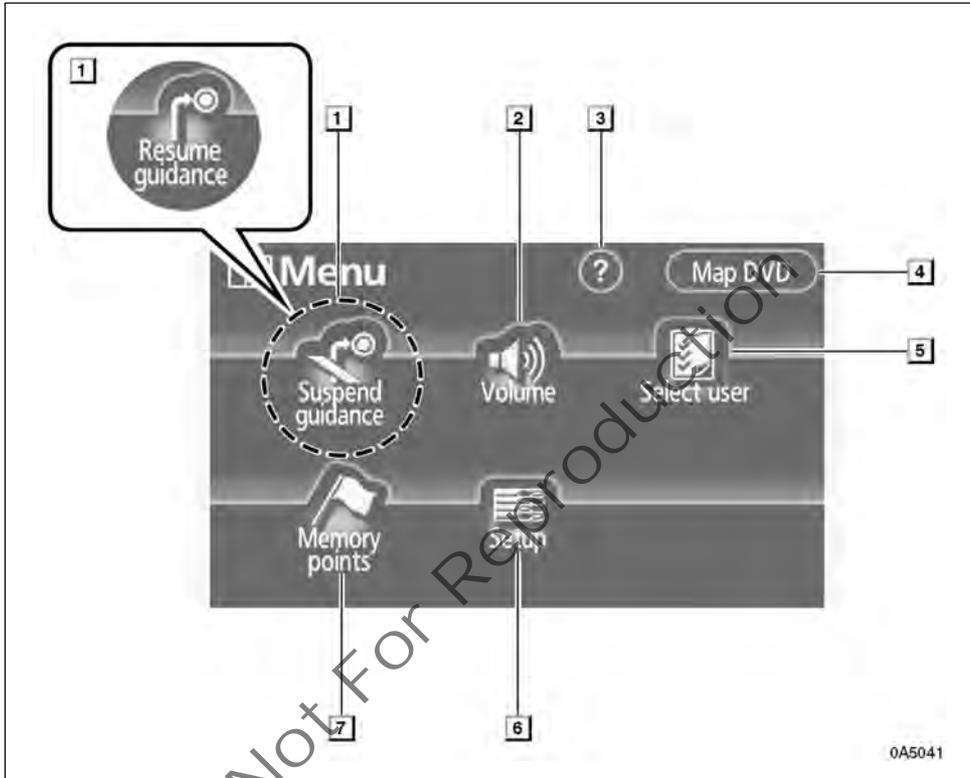
### Descriptions of functions for more effective use

● Quick reference (“Menu” screen) .....	78
● Quick reference (“Setup” screen) .....	79
● Suspending and resuming guidance .....	80
● Volume .....	81
● User selection .....	83
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Registering memory points .....	86
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Deleting area to avoid .....	97
Delete previous points .....	98
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## Quick reference (“Menu” screen)

The “Menu” screen allows effective use of the navigation system. To display the “Menu” screen, push the “MENU” button.



**1 “Suspend guidance” and “Resume guidance”**

Suspends or resumes guidance. . . . . 80

**2 “Volume”**

Sets the volume for voice guidance. . . . 81

**3 “?”**

Function help for the “Menu” screen can be viewed on this screen. . . . . 27

**4 “Map DVD”**

Displays information regarding the disc version or covered area. . . . . 277

**5 “Select user”**

Up to 3 different settings for different users can be memorized. . . . . 83

**6 “Setup”**

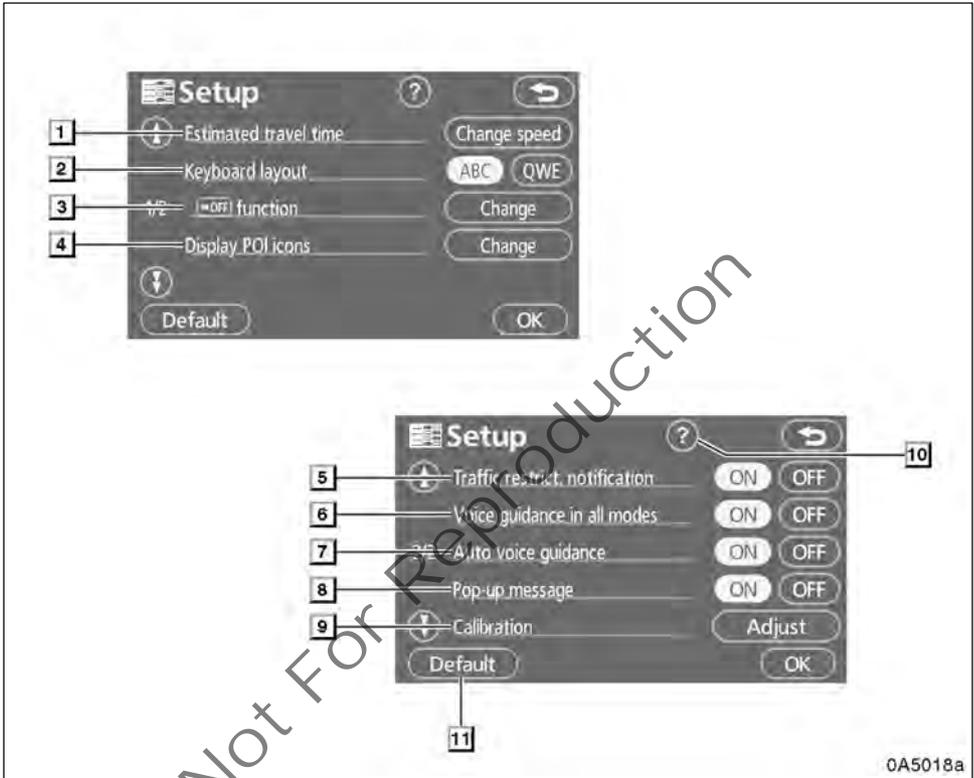
Enables various settings of the navigation system. . . . . 79, 98

**7 “Memory points”**

Enables changes to “Memory points”, “Home” and “Areas to avoid”. Enables deletion of the previous point. . . . . 85

## Quick reference (“Setup” screen)

The items shown on the “Setup” screen can be set. To display the “Setup” screen, push the “MENU” button and touch “Setup”.



**1 “Estimated travel time”**

The system to display the travel time and the arrival time to the destination on the route guidance screen can be set. . . . . 99

**2 “Keyboard layout”**

Key layout can be changed. . . . . 100

**3 “OFF Function”**

The choice whether to display each touch-screen button and current street name on the map screen can be set. . . . . 101

**4 “Display POI icons”**

A selection of 6 icons displayed on the “Display POI Icons” top screen is possible. . . . . 102

**5 “Traffic restrict. notification”**

Notification of seasonal restrictions can be selected. . . . . 103

**6 “Voice guidance in all modes”**

Voice guidance can be set in all modes. . . . . 103

**7 “Auto voice guidance”**

Automatic voice guidance can be set. . 104

**8 “Pop-up message”**

Selection of either ON or OFF to display the pop-up message is possible. . . . . 104

**9 “Calibration”**

Adjustment of the current vehicle position mark can be done manually. . . . . 105

**10 “?”**

Function help for the “Setup” screen can be viewed. . . . . 27

**11 “Default”**

This touch-screen button initializes all of the settings. . . . . 98

## Suspending and resuming guidance

- To suspend guidance



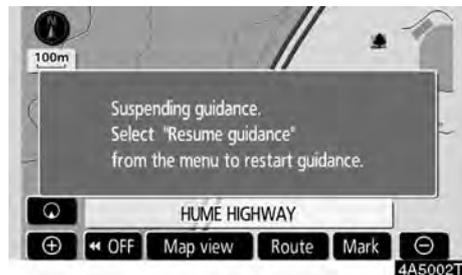
1. Push the “MENU” button.



2. Touch “Suspend guidance”.

### INFORMATION

**Without route guidance, “Suspend guidance” cannot be used.**



The screen will return to the current position map without route guidance.

- To resume guidance

1. Push the “MENU” button.



2. Touch “Resume guidance”.



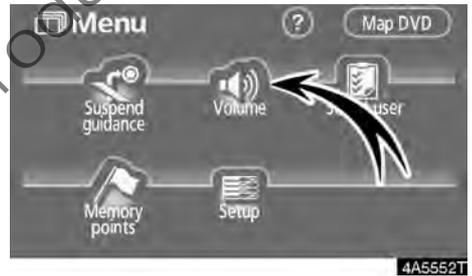
The screen will change to the current position map with route guidance.

## Volume

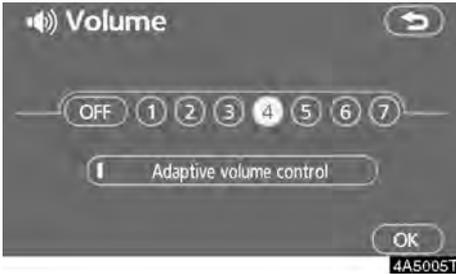
The voice guidance volume can be adjusted or switched off.



1. Push the “MENU” button.



2. Touch “Volume”.



To adjust the volume, select the desired level by touching the appropriate number.

If voice guidance is not needed, touch “OFF” to disable the feature.

When selected the number or “OFF” will be highlighted.

**3. Touch “OK” to confirm your selection.**

### INFORMATION

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

“Adaptive volume control”: By turning “Adaptive volume control” on, the volume is turned up automatically when the vehicle speed exceeds 80 km/h.

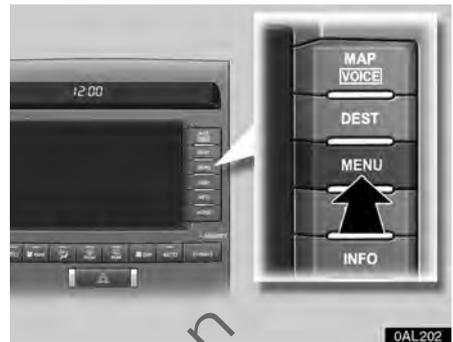
To turn the “Adaptive volume control” system on, touch the button. The indicator will be highlighted.

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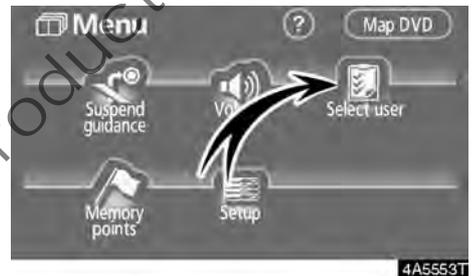
## User selection

The system can memorize the following settings for up to three users.

- Map direction
- Map scale
- Map configuration
- Guidance mode
- Setup
- Volume
- Route trace
- Travel time/arrival time
- Right screen of dual map
- Road preference
- Maintenance notification



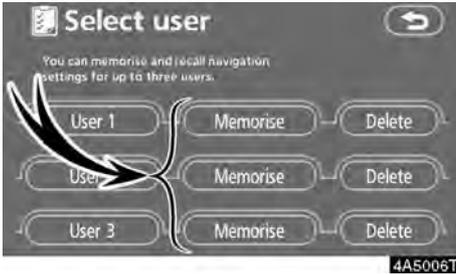
1. Push the "MENU" button.



2. Touch "Select user".

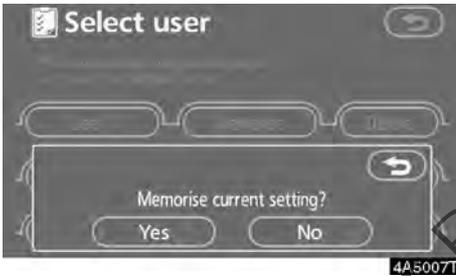
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● To register



1. Touch “Memorise”.

The confirmation screen will be displayed.



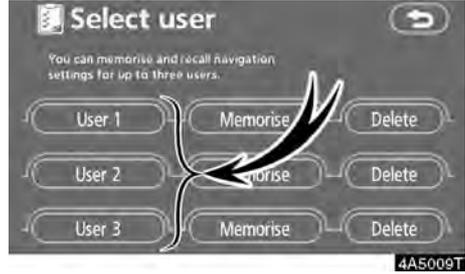
2. To register, touch “Yes”. To return to the previous screen, touch “No” or .

When a button that is already registered is touched, the following screen appears.

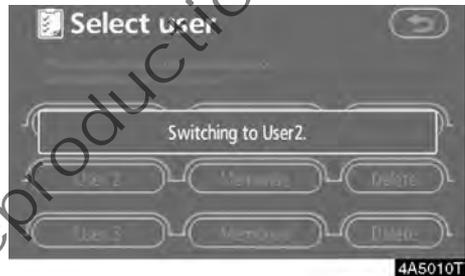


To replace, touch “Yes”. To cancel the replacement, touch “No” or .

● To change user

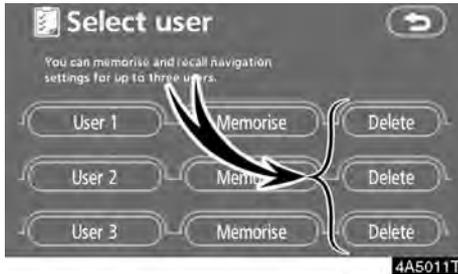


Touch “User number”



The above message appears, then the map screen will be displayed.

● **To delete user**



**1. Touch "Delete".**

The confirmation screen will be displayed.



**2. To delete, touch "Yes". To return to the previous screen, touch "No" or .**

**Memory points —**

Points or areas on the map can be registered. The registered points can be used on the "Destination" screen. (See "—Destination search by Home" on page 41, "—Destination search by Quick access" on page 42 and "—Destination search by Memory" on page 52.)

Registered areas are avoided at the time of route search.

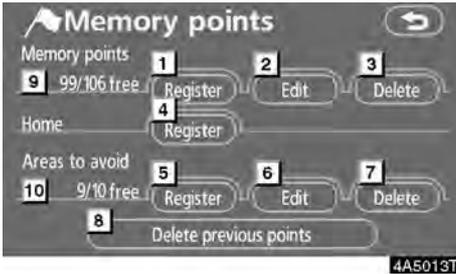


**1. Push the "MENU" button.**



**2. Touch "Memory points".**

## — Registering memory points

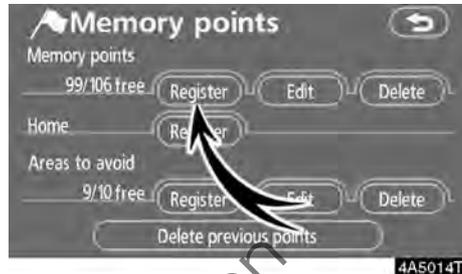


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On this screen, the following operations can be performed.

- 1 **Registers memory points**  
(See “—Registering memory points” on page 86.)
- 2 **Edits memory points**  
(See “—Editing memory points” on page 87.)
- 3 **Deletes memory points**  
(See “—Deleting memory points” on page 92.)
- 4 **Registers or deletes home**  
(See “—Registering home” on page 93 or “—Deleting home” on page 93.)
- 5 **Registers areas to avoid**  
(See “—Registering area to avoid” on page 94.)
- 6 **Edits areas to avoid**  
(See “—Editing area to avoid” on page 95.)
- 7 **Deletes areas to avoid**  
(See “—Deleting area to avoid” on page 97.)
- 8 **Deletes previous points**  
(See “—Deleting previous points” on page 98.)
- 9 **Number of remaining memory points**
- 10 **Number of remaining areas to avoid**

1. Push the “MENU” button.
2. Touch “Memory points”.



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3. Touch “Register”.



4A5015T

4. Enter the location in the same way as for a destination search. (See “Destination search” on page 39.)

After memory point registration is completed, the “Memory point” screen will be displayed.



**5. Touch “OK”.**

To edit registered information, see “—Editing memory points” on page 87.

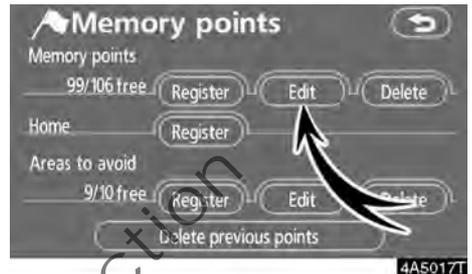
**INFORMATION**

*Up to 106 memory points can be registered.*

**— Editing memory points**

1. Push the “MENU” button.
2. Touch “Memory points”.

The icon, attribute, name, location and/or telephone number of a registered memory point can be edited.



**3. Touch “Edit”.**



**4. Touch the desired memory point button.**

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**5. Touch the button to be edited.**

**“Icon”**: To select icons to be displayed on the map. (See page 88.)

**“Quick access”**: To set an attribute. Memory points with a set attribute can be used as a “Quick access” or “Home” button. (See page 89.)

**“Name”**: To edit memory point names. The names can be displayed on the map. (See page 90.)

**“Location”**: To edit location information. (See page 91.)

**“Phone no.”**: To edit telephone numbers. (See page 91.)

**6. Touch “OK”.**

● To change “Icon”

**1. Touch “Icon” on the “Memory point” screen.**



**2. Touch the desired icon.**

Turn the page by touching **“Page 1”**, **“Page 2”** or **“With sound”**.

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**SOUND ICONS**

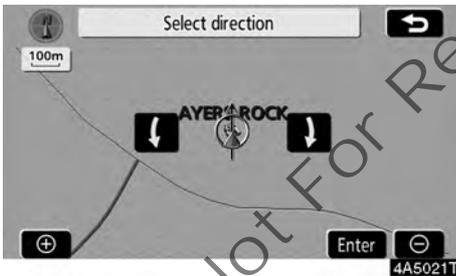
When the vehicle approaches the memory point, the selected sound will be heard.

1. Touch **“With sound”** on the **“Change icon”** screen.



2. Touch the desired sound icon.

The next screen appears when **“Bell (with direction)”** is touched.



Touch either **←** or **→** to adjust the direction. Touch **“Enter”**.

The bell sounds only when the vehicle approaches this point in the direction that has been set.

- To change **“Quick access”**

It is possible to change attributes of the quick access points. Memory points with a set attribute can be used as a **“Quick access”** or **“Home”** touch-screen button. (See **“—Destination search by Home”** on page 41 and **“—Destination search by Quick access”** on page 42.)

1. Touch **“Quick access”** on the **“Memory point”** screen.



2. Touch the desired attribute.

It is possible to replace a registered attribute.



3. To replace the attribute, touch **“Yes”**. To return to the previous screen, touch **“No”** or **↩**.

**INFORMATION**

*One “Home” and five “Quick access” can be set.*

**DELETING “Quick access”**



1. Touch “Del.”.



2. To delete an attribute, touch “Yes”. To return to the previous screen, touch “No” or .

● To change “Name”

1. Touch “Name” on the “Memory point” screen.



2. Enter the name using the alphanumeric keys.

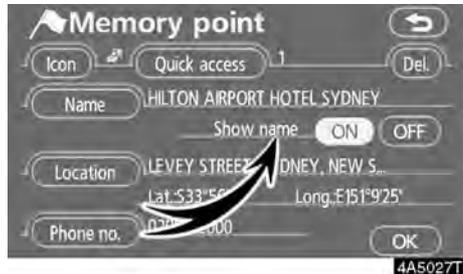
Up to 24 letters can be entered.

3. Touch “OK”.

The previous screen will be displayed.

**DISPLAYING MEMORY POINT NAMES**

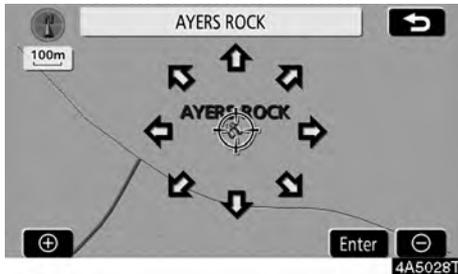
The name of a memory point that may be displayed on the map can be set.



To show the name, touch “ON” on the “Memory point” screen. To not show it, touch “OFF”.

- To change “Location”

1. Touch “Location” on the “Memory point” screen.



2. Touch the eight directional touch-screen button to move the cursor  to the desired point on the map.
3. Touch “Enter”.

The previous screen will be displayed.

- To change “Phone no.” (telephone number)

1. Touch “Phone no.” on the “Memory point” screen.



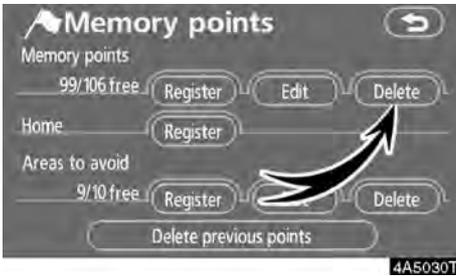
2. Enter the number using number keys.
3. Touch “OK”.

The previous screen will be displayed.

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## — Deleting memory points

1. Push the “MENU” button.
2. Touch “Memory points”.



3. Touch “Delete”.

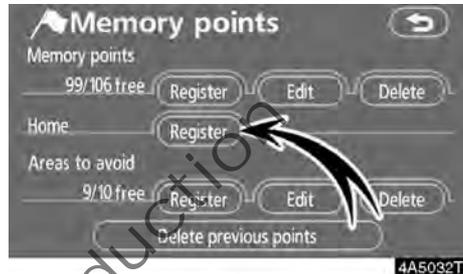


4. Touch the button to be deleted.  
 “Delete all”: To delete all memory points in the system.
5. To delete the memory point, touch “Yes”. To cancel the deletion, touch “No”.

## — Registering home

If home has been registered, that information can be recalled by using the “Home” touch-screen button on the “Destination” screen. (See “— Destination search by Home” on page 41.)

1. Push the “MENU” button.
2. Touch “Memory points”.

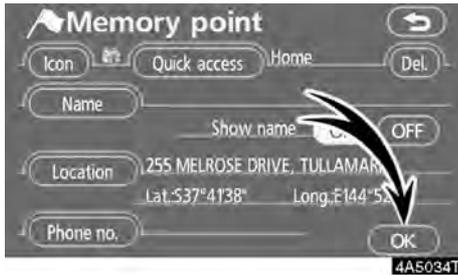


3. Touch “Register”.



4. Enter the location in the same way as for a destination search. (See “Destination search” on page 39.)

When registration of home is completed, the “Memory point” screen will be displayed.

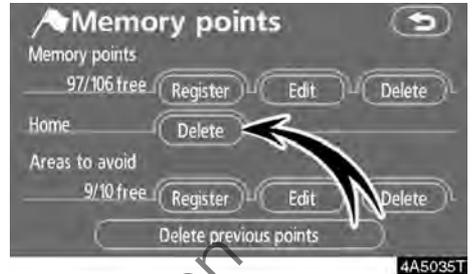


**5. Touch “OK”.**

To edit registered information, see “—Editing memory points” on page 87.

**— Deleting home**

1. Push the “MENU” button.
2. Touch “Memory points”.



**3. Touch “Delete”.**

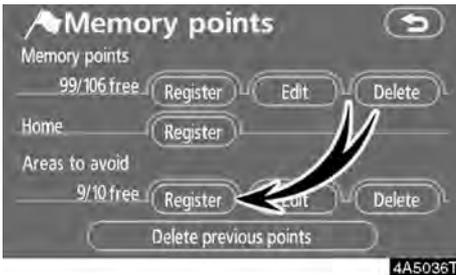
4. To delete the home, touch “Yes”. To cancel the deletion, touch “No”.

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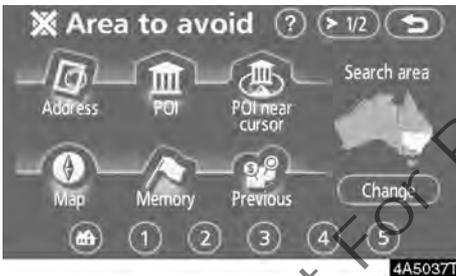
## — Registering area to avoid

Areas you want to avoid because of traffic jams, construction work or other reasons can be registered as areas to avoid.

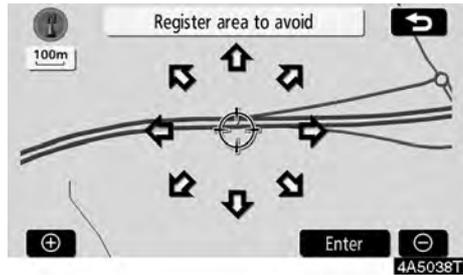
1. Push the “MENU” button.
2. Touch “Memory points”.



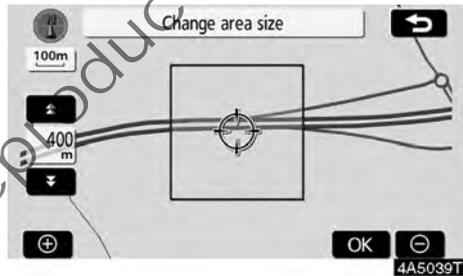
3. Touch “Register”.



4. Enter the location in the same way as for a destination search, or display the map of the area to be avoided. (See “Destination search” on page 39.)



5. Touch the eight directional touch-screen button to move the cursor to the desired point on the map.
6. Touch “Enter”.



7. Touch either [up arrow] or [down arrow] to change the size of the area to be avoided.
8. Touch “OK”.

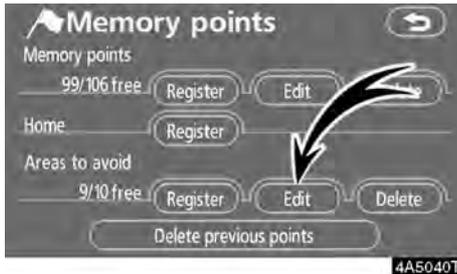
### INFORMATION

- If a destination is input in the area to avoid or the route calculation cannot be made without running through the area to avoid, a route passing through the area to be avoided may be shown.
- Up to 10 locations can be registered as points/areas to avoid. If there are 10 locations already registered, the following message will be displayed: “Unable to register additional points. Perform operation again after deleting unnecessary points”.

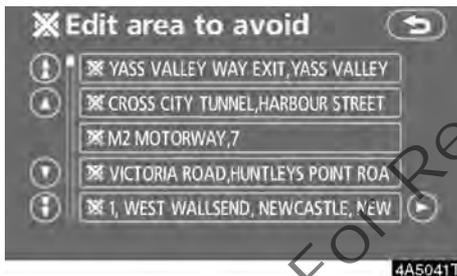
## — Editing area to avoid

The name, location and/or area size of a registered area can be edited.

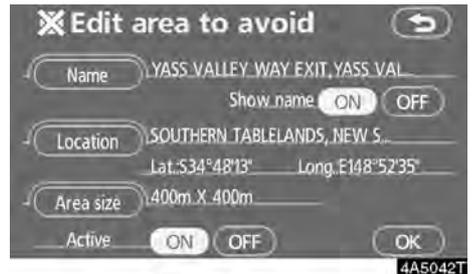
1. Push the “MENU” button.
2. Touch “Memory points”.



3. Touch “Edit”.



4. Touch the desired area button.



5. Touch the button to be edited.

“Name”: To edit the name of the area to avoid. The names can be displayed on the map. (See page 96.)

“Location”: To edit area location. (See page 96.)

“Area size”: To edit area size. (See page 97.)

“Active”: To turn on or off the area to avoid feature. To turn on the feature touch “ON” on the “Edit area to avoid” screen. To turn off the feature touch “OFF” on the “Edit area to avoid” screen.

6. Touch “OK”.

- To change “Name”

1. Touch “Name” on the “Edit area to avoid” screen.



2. Enter the name using alphanumeric keys.

Up to 24 letters can be entered.

3. Touch “OK”.

The previous screen will be displayed.

### DISPLAYING NAMES OF AREAS TO BE AVOIDED

The name of an area to be avoided that may be displayed on the map can be set.



To show the name, touch “ON” on the “Edit area to avoid” screen. To not show it, touch “OFF”.

- To change “Location”

1. Touch “Location” on the “Edit area to avoid” screen.



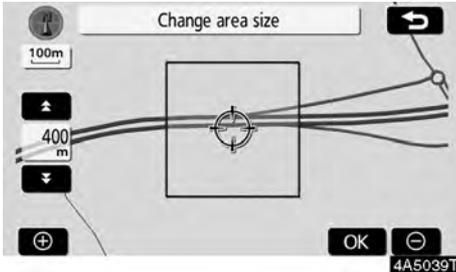
2. Touch the eight directional touch-screen button to move the cursor to the desired point on the map.

3. Touch “Enter”.

The previous screen will be displayed.

● To change “Area size”

1. Touch “Area size” on the “Edit area to avoid” screen.

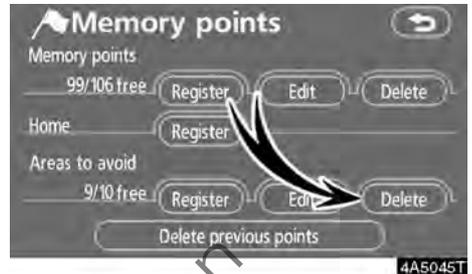


2. Touch either  or  to change the size of the area to be avoided.
3. Touch “OK”.

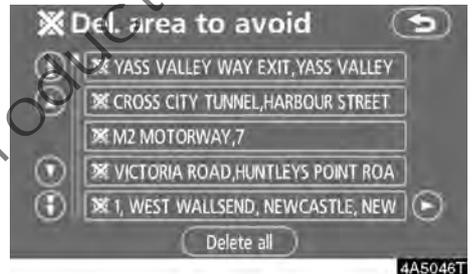
The previous screen will be displayed.

— Deleting area to avoid

1. Push the “MENU” button.
2. Touch “Memory points”.



3. Touch “Delete”.



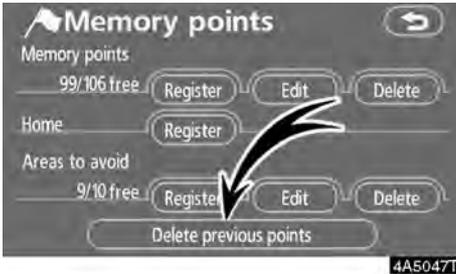
4. Touch the button to be deleted.  
 “Delete all”: To delete all registered areas to avoid in the system.
5. To delete the area, touch “Yes”. To cancel the deletion, touch “No”.

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## — Deleting previous points

The previous destination can be deleted.

1. Push the “MENU” button.
2. Touch “Memory points”.



3. Touch “Delete previous points”.



4. Touch the button to be deleted.

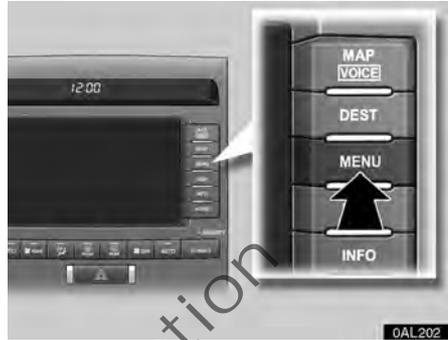
“Delete all”: To delete all previous points in the system.



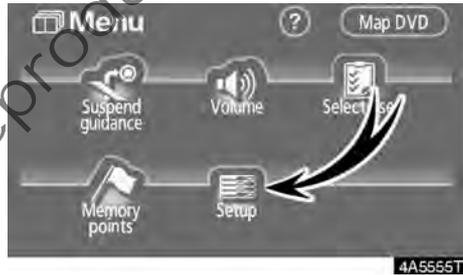
5. To delete the point, touch “Yes”. To cancel the deletion, touch “No”.

## Setup

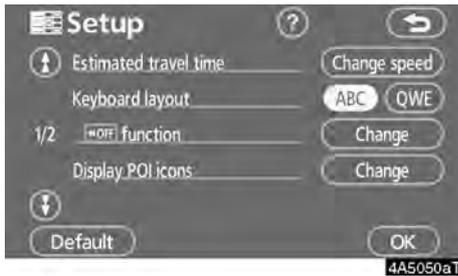
Setting the items shown on the “Setup” screen can be done. (See page 79.)



1. Push the “MENU” button.



2. Touch “Setup”.



3. Touch the items to be set.

4. Touch "OK".

The previous screen will be displayed.

**INFORMATION**

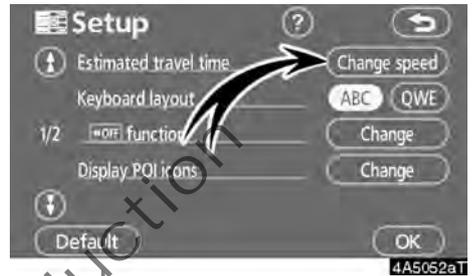
To reset all setup items, touch "Default".

● **Estimated travel time**

The speed that is used for the calculation of the estimated travel time and the estimated arrival time can be set.

1. Push the "MENU" button.

2. Touch "Setup" on the "Menu" screen.



3. Touch "Change speed" of the "Estimated travel time".



4. Touch ◀ or ▶ to set the average vehicle speeds for "Residential", "Main street" and "Freeway".

To set the default speeds, touch "Default".

5. After setting of desired speeds is completed, touch "OK".

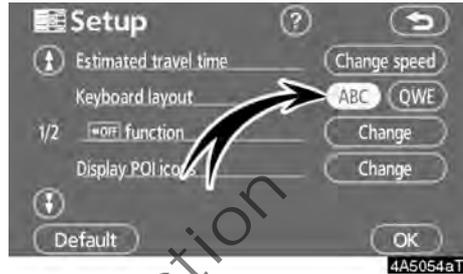
**INFORMATION**

- *The displayed time to the destination is the approximate driving time that is calculated based on the selected speeds actual position along the guidance route.*
- *The time shown on the screen may vary greatly depending on progress along the route, which may be affected by conditions such as traffic jams and, construction work.*
- *It is possible to display up to 99 hours 59 minutes.*

● **Keyboard layout**

Keyboard layout can be changed.

1. Push the “MENU” button.
2. Touch “Setup” on the “Menu” screen.



3. Touch “ABC” or “QWE” of “Keyboard layout” to choose the input keyboard layout.

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LAYOUT TYPE



► “ABC” type



► “QWE” type

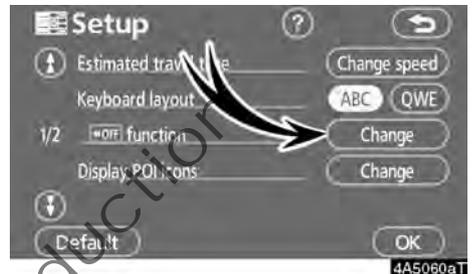
The selected button is highlighted.

4. Touch “OK”.

● Screen layout function  
(**OFF** function)

Each touch-screen button and current street name on the map screen can be displayed or hidden.

1. Push the “MENU” button.
2. Touch “Setup” on the “Menu” screen.



3. Touch “Change” of “**OFF** function”.



4. Touch the button to be turned off. The button becomes dimmed.

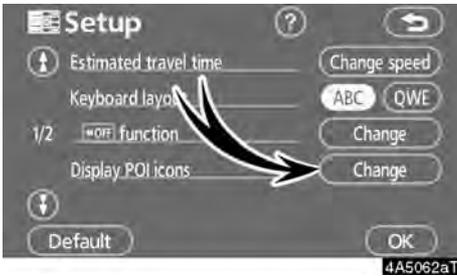
To set the default, touch “Default”.

5. Touch “OK”.

- **POI category change (Display POI icons)**

Select from among the 6 icons displayed on the “Display POI icons” top screen, so that setting of the icons to be displayed on the map screen can be done easily.

1. Push the “MENU” button.
2. Touch “Setup” on the “Menu” screen.



3. Touch “Change” of “Display POI icons”.



4. Touch the category button to be change.



5. Touch the category button to be displayed on the “Display POI icons” top screen.
6. Touch “OK”.

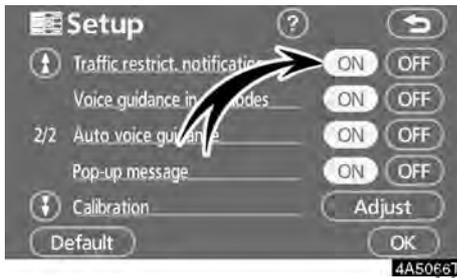
- **Notifying traffic restriction**

When the “Traffic restrict. notification” feature is turned on, the system notifies you of traffic or seasonal restrictions.

To turn the “Traffic restrict. notification” mode on:

1. Push the “MENU” button.
2. Touch “Setup” on the “Menu” screen.

Then touch  to display page 2 of the “Setup” screen.



3. Touch “ON” of “Traffic restrict. notification”.

The selected button is highlighted.

4. Touch “OK”.

- **Voice guidance in all modes**

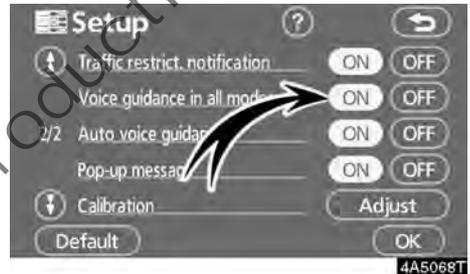
When the “Voice guidance in all modes” feature is turned on, the voice guidance in all modes can be heard.

When the “Voice guidance in all modes” feature is turned off, voice guidance cannot be heard when using the audio system.

To turn the “Voice guidance in all modes” on:

1. Push the “MENU” button.
2. Touch “Setup” on the “Menu” screen.

Then touch  to display page 2 of the “Setup” screen.



3. Touch “ON” of “Voice guidance in all modes”.

The selected button is highlighted.

4. Touch “OK”.

● **Auto voice guidance**

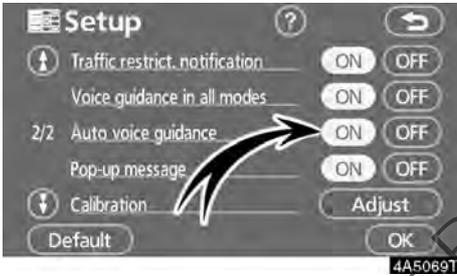
When the “Auto voice guidance” feature is turned on, the voice guidance can be heard automatically.

When the “Auto voice guidance” feature is turned off, the voice guidance can be heard only if the “MAP/VOICE” button is pushed.

To turn the “Auto voice guidance” mode on:

1. **Push the “MENU” button.**
2. **Touch “Setup” on the “Menu” screen.**

Then touch  to display page 2 of the “Setup” screen.



3. **Touch “ON” of “Auto voice guidance”.**

The selected button is highlighted.

4. **Touch “OK”.**

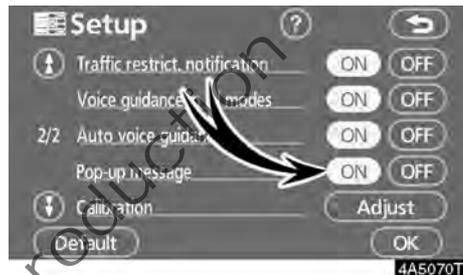
● **Pop-up message**

When the “Pop-up message” is turned on, the pop-up message will be displayed.

To turn the “Pop-up message” on:

1. **Push the “MENU” button.**
2. **Touch “Setup” on the “Menu” screen.**

Then touch  to display page 2 of the “Setup” screen.

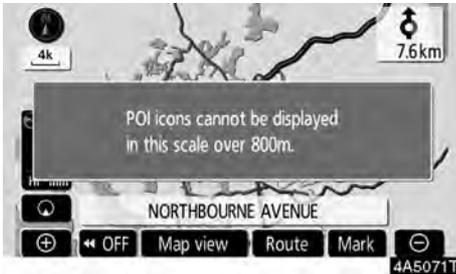


3. **Touch “ON” of “Pop-up message”.**

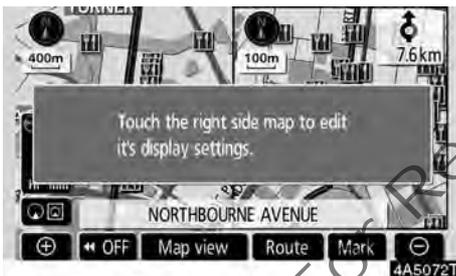
The selected button is highlighted.

4. **Touch “OK”.**

When the “Pop-up message” is turned off, the following messages will not be displayed.



This message appears when the system is in the POI mode and the map scale is 1.6 km or greater.



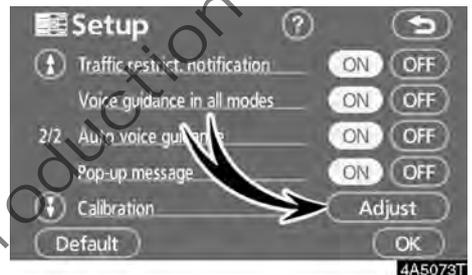
The message appears when the map is switched to the dual map screen mode.

● **Current position/tyre change calibration**

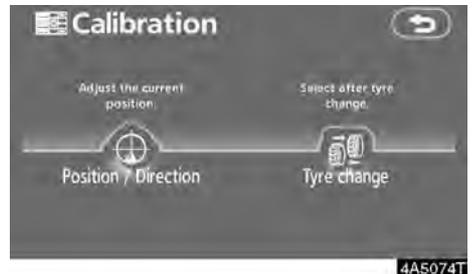
The current vehicle position mark can be adjusted manually. Miscalculation of the distance caused by tyre replacement can also be adjusted.

1. Push the “MENU” button.
2. Touch “Setup” on the “Menu” screen.

Then touch to display page 2 of the “Setup” screen.



3. Touch “Adjust” of “Calibration”.



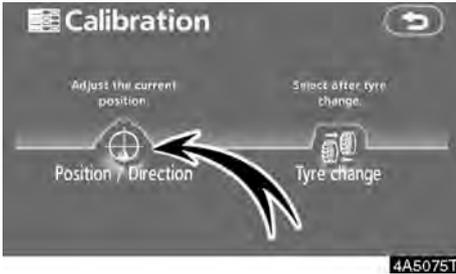
4. Touch the desired button.

**INFORMATION**

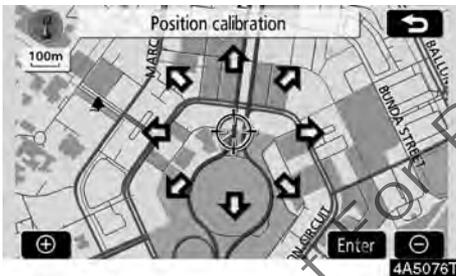
*For additional information on the accuracy of a current vehicle position, see “Limitations of the navigation system” on page 274.*

### POSITION/DIRECTION CALIBRATION

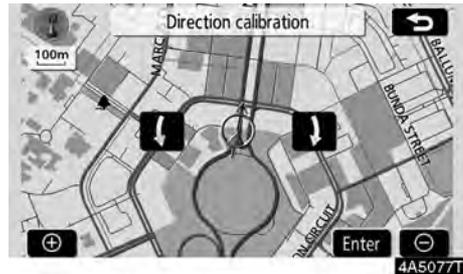
When driving, the current vehicle position mark will be automatically corrected GPS signals. If GPS reception is poor due to location, you can manually adjust the current vehicle position mark.



1. Touch "Position/Direction".



2. Touch the eight directional touch-screen button to move the cursor  to the desired point on the map.
3. Touch "Enter".



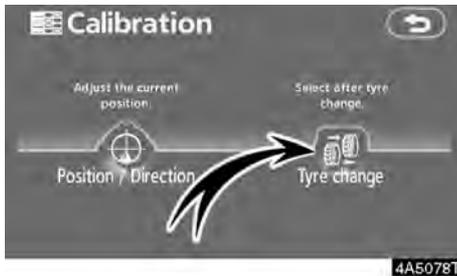
4. Touch either  or  to adjust the direction of the current vehicle position mark.

5. Touch "Enter".

The map screen will be displayed.

## TYRE CHANGE CALIBRATION

The tyre change calibration function will be used when replacing the tyres. This function will adjust the miscalculation caused by the circumference difference between the old and new tyres. If this procedure is not performed when the tyres are replaced, the current vehicle position mark may be incorrectly displayed.



**To perform a distance calibration procedure, touch “Tyre change” on the “Calibration” screen.**

The message appears and the quick distance calibration is automatically started. A few seconds later, a map screen will be displayed.

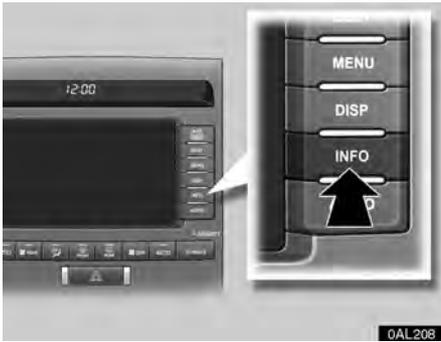
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# SECTION 5

## OTHER FUNCTIONS

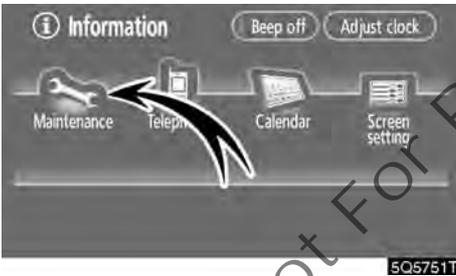
● <b>Maintenance information</b> .....	110
Maintenance information setting .....	110
Dealer setting .....	112
● <b>Calendar with memo</b> .....	114
Adding a memo .....	116
Editing a memo .....	117
Memo list .....	117
● <b>Hands-free system (for cellular phone)</b> .....	118
Enter a Bluetooth® phone .....	122
Call on the Bluetooth® phone .....	125
Receive on the Bluetooth® phone .....	131
Talk on the Bluetooth® phone .....	132
Change the setting of the Bluetooth® phone .....	134
Set a Bluetooth® phone .....	158
● Clock adjustment .....	165
● Screen adjustment .....	166
● Screen setting .....	168
● Beep setting .....	171

## Maintenance information — — Maintenance information setting



When the navigation system is turned on, the “Information” screen displays when it is time to replace a part or certain components. (See page 22.)

**1. Push the “INFO” button.**



**2. Touch “Maintenance”.**



**3. Touch the desired button.**

For details of each touch–screen button, see “INFORMATION ITEMS” on page 111.

“Delete all”: To cancel all conditions which have been inputted.

“Reset all”: To reset the item which has satisfied a condition.

“Set dealer”: To register or edit dealer information. (See “ — Dealer setting ” on page 112.)

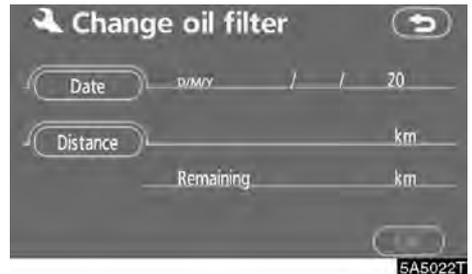
If “ON” is selected, the system gives maintenance information with the “Information” screen when the system is turned on.(See page 22.)

If “OFF” is selected, the “Information” screen is disabled.

When the vehicle needs to be serviced, the touch–screen button colour will change to orange.

**INFORMATION ITEMS**

- “ENGINE OIL”: Replace engine oil
- “OIL FILTER”: Replace engine oil filter
- “ROTATION”: Rotate tyres
- “TYRES”: Replace tyres
- “BATTERY”: Replace battery
- “BRAKE PAD”: Replace brake linings
- “WIPERS”: Replace wiper blades
- “LLC”: Replace engine coolant
- “BRAKE OIL”: Replace brake fluid
- “ATF”: Replace ATF (Automatic Transmission Fluid)
- “SERVICE”: Scheduled maintenance
- “AIR FILTER”: Replace air filter
- “PERSONAL”: New information items can be created separately from provided ones.

**4. Input the conditions.**

**Notice of “Date”:** The next maintenance date can be input.

**Notice of “Distance”:** The driving distance until the next maintenance check can be input.

**“Delete”:** To cancel the date and distance conditions.

**“Reset”:** To reset the date and distance conditions.

**5. Touch “OK”.**

The screen then returns to the “Maintenance” screen.

**INFORMATION**

- *For scheduled maintenance information, please refer to the separate “Warranty and Service Booklet”.*
- *Depending on driving or road conditions, the actual date and distance may differ from the stored date and distance in the system.*

## — Dealer setting

It is possible to register a dealer in the system. With dealer information registered, route guidance to the dealer is available.

1. Push the “INFO” button.
2. Touch “Maintenance”.
3. Touch “Set dealer” on the “Maintenance” screen.



4. If the dealer has not been registered, enter the location of the dealer in the same way as for a destination search. (See “Destination search” on page 39.)

When “Set dealer” registration is finished, the “Edit dealer” screen will be displayed.



5. Touch the button to be edited.

“**Dealer**” : To enter the name of a dealer. (See page 113.)

“**Contact**” : To enter the name of a dealer member. (See page 113.)

“**Location**” : To set a location. (See page 113.)

“**Phone no.**” : To set a telephone number. (See page 114.)

“**Delete dealer**” : To delete the dealer information displayed on the screen.

“**Enter**” : To set the displayed dealer as a destination. (See “Starting route guidance” on page 56.)

- To edit “Dealer” or “Contact”

1. Touch “Dealer” or “Contact” on the “Edit dealer” screen.



2. Enter the name using the alphanumeric keys.

Up to 24 letters can be entered.

3. Touch “OK”.

The previous screen will be displayed.

- To edit “Location”

1. Touch “Location” on the “Edit dealer” screen.



2. Touch the eight directional touch-screen button to move the cursor to the desired point on the map.

3. Touch “Enter”.

The previous screen will be displayed.

Not For Reproduction

- To edit “Phone no.” (telephone number)

1. Touch “Phone no.” on the “Edit dealer” screen.



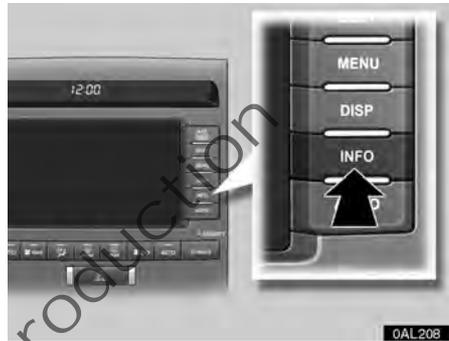
2. Enter the number using numeral keys.  
3. Touch “OK”.

The previous screen will be displayed.

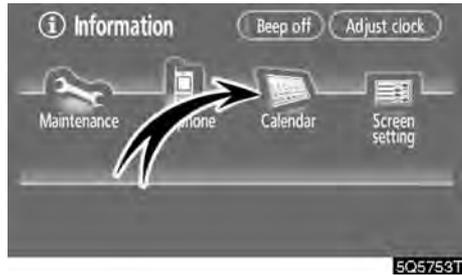
## Calendar with memo —

It is possible to enter memos for particular dates on the calendar. The system informs you of the memo entry when the system is turned on. (See page 23.)

Memos can also be used for route guidance if the memo has been registered with location information.



1. Push the “INFO” button.



2. Touch “Calendar”.



On this screen, the current date is highlighted in yellow.

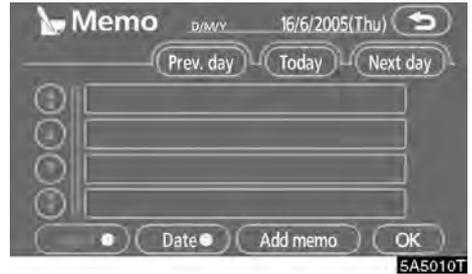
**▲M** or **▼M**: To change month.

**▲Y** or **▼Y**: To change year.

**“Today”**: To display the current month calendar (if another month will be displayed).

**“List”**: To display the list of registered memos. (See “ — Memo list” on page 117.)

Touching a date button on the “Calendar” screen displays the “Memo” screen.



Memos can be edited by touching the list button. (See “ — Editing a memo” on page 117.)

**“Add memo”**: To add a memo. (See “ — Adding a memo” on page 116.)

**“Mark O”**: To change the colour of the mark displayed next to the date. To default the mark colour, touch **“Delete”** on the “Mark colour” screen.

**“Date O”**: To change the colour of the date. To default the date colour, touch **“Delete”** on the “Date colour” screen.

**“Prev. day”**: To go to the “Memo” screen of the previous date.

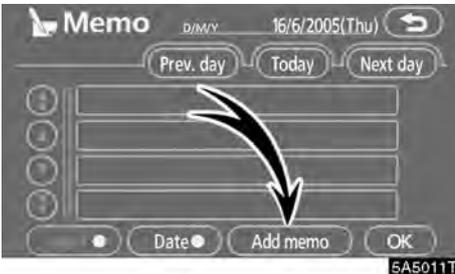
**“Today”**: To go to the “Memo” screen for the current day.

**“Next day”**: To go to the “Memo” screen of the next date.

— Adding a memo

If a memo is added, the system informs of the memo entry when the system is started on the memo date. (See page 23.)

1. Push the “INFO” button.
2. Touch “Calendar”.
3. Touch the date you want to add a memo on the “Calendar” screen.



4. Touch “Add memo”.
- Up to 100 memos can be added.



5. Touch “Memo”.



6. Enter text using the keys.
- Up to 24 letters can be entered.  
After entering the text, touch “OK” at the bottom right of the screen.



7. When registering information on the memo, touch “Location”.
- A screen similar to the destination search screen appears. Search the same way as searching a destination. (See “Destination search” on page 39.)

## — Editing a memo

The registered memo can be edited.

1. Push the “INFO” button.
2. Touch “Calendar”.
3. Touch the day you want to edit a memo on the “Calendar” screen.



4. Touch the memo to be edited.



5. Touch the item to be edited.

“Memo”: To edit a memo. (See “ — Adding a memo” on page 116.)

“Location”: To change a registered location. (See “ — Adding a memo” on page 116.)

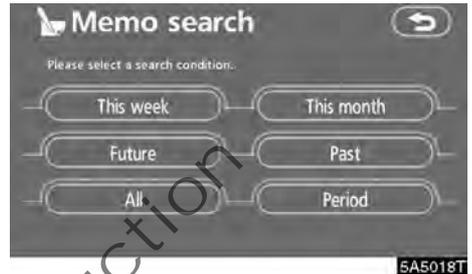
“Enter”: To set the registered location as a destination. (See “Starting route guidance” on page 56.)

“Delete”: To delete the memo.

## — Memo list

It is possible to display a memo list by setting a condition.

1. Push the “INFO” button.
2. Touch “Calendar”.
3. Touch “List” on the “Calendar” screen.



4. Touch the desired search condition to list the memos.

“This week”: To display the list of memos for the current week.

“This month”: To display the list of memos for the current month.

“Future”: To display a list of future memos.

“Past”: To display the list of past memos.

“All”: To display the list of all memos.

“Period”: To display the list of memos for a specified period. (See page 118.)



5. To delete and/or edit the memo, touch the desired memo button.

“Delete all”: To delete all the displayed memos.

6. To delete, touch “Yes”. To cancel deletion, touch “No”.

- To display memos for a specified period of time

1. Touch “Period” on the “Memo search” screen.



2. Enter the period using the numeral keys.

The period from January 1, 2005 through December 31, 2024 can be set for searching.

3. After setting the period, touch “OK”.

The “Memo list” screen will be displayed.

## Hands-free system (for cellular phone)

Hands-free system allows you to make or receive a call without taking your hands off the steering wheel by connecting your cellular phone.

This system supports Bluetooth®. Bluetooth® is a wireless data system by which you can call without your cellular phone being connected with a cable or placed on a cradle.

If your cellular phone does not support Bluetooth®, this system can not function.



### CAUTION

While driving, do not use a cellular phone or connect the Bluetooth® phone.

### NOTICE

Do not leave your cellular phone in the car. The temperature indoor may be high and damage the phone.

Not For Reproduction

**INFORMATION**

*In the following conditions, the system may not function.*

- *The cellular phone is turned off.*
- *The current position is outside the communication area.*
- *The cellular phone is not connected.*
- *The cellular phone has a low battery.*



By pushing the telephone switch above, you can receive a call or hang up without taking your hands off the steering wheel.



You can use the microphone above when talking on the phone.

The other party's voice outputs from the driver's speaker. When the received calls or received voice outputs, the audio from the audio system or voice guidance from the navigation system will be muted.

Not For Reproduction

**INFORMATION**

- *Talk alternately with the other party on the phone. If you talk at the same time, the voice may not reach each other. (It is not a malfunction.)*
- *Keep the volume of receiving voice down. Otherwise, echo is coming up. When you talk on the phone, speak clearly towards the microphone.*
- *In the following situations, your voice may not reach the other party.*
  - *Driving on unpaved road. (Making a traffic noise.)*
  - *Driving at the high speed.*
  - *The window is open.*
  - *Turning the air-conditioning vents towards the microphone.*
  - *The sound of the air-conditioning fan is loud.*



**1** Indicates the condition of Bluetooth® connection.

“Blue” indicates an excellent connection to Bluetooth®.

“Yellow” indicates a bad connection to Bluetooth®, resulting in possible deterioration of voice quality.

 No connection to Bluetooth®.

**2** Indicates the amount of battery charge left.



It is not displayed while the Bluetooth® is connecting or the phone book data is being transferred.

The amount left does not always correspond with the one of your cellular phone. This system doesn't have a charging function.

**3** Indicates the receiving area.

“Rm” is displayed when receiving in Roaming area.

“Ho” is displayed when receiving in Home area.

**4** Indicates the level of reception.



Too bad ←————→ Excellent

The level of reception does not always correspond with the one of your cellular phone.

### INFORMATION

***This system supports the following service.***

- ***HFP (Hands Free Profile) Ver. 1.0***
- ***OPP (Object Push Profile) Ver. 1.1***

***If your cellular phone does not support HFP, you cannot enter the Bluetooth® phone, and take OPP service individually.***

**An antenna for the Bluetooth® connection is built in the display. The indication of the Bluetooth® connection may turn yellow and the system may not function when you use the Bluetooth® phone in the following conditions and places.**

- Your cellular phone is hiding behind the display (behind the seat or in the glove box and console box).
- Your cellular phone touches or is covered with metal materials.

Leave the Bluetooth® phone on the place where “Blue” indication is displayed.



Bluetooth is a registered trademark of Bluetooth SIG, Inc.

**When you release your car:**

**A lot of personal data is registered when you use the Hands-free system. When you release your car, initialize your data. (See “(c) Delete personal data” on page 170.)**

If you initialize it, the former state will never come back again. Pay much attention when initializing the data.

You can initialize the following data in the system.

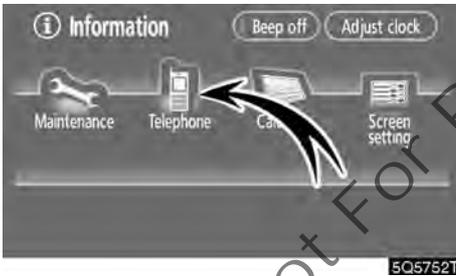
- Phonebook data
- Dialed numbers and received calls
- Speed dial
- Bluetooth® phone data
- Security code

### — Enter a Bluetooth® phone

To use the hands-free system, you need to enter your phone into the system. Once you have registered it, you can make a hands-free call.



1. Push the “INFO” button.

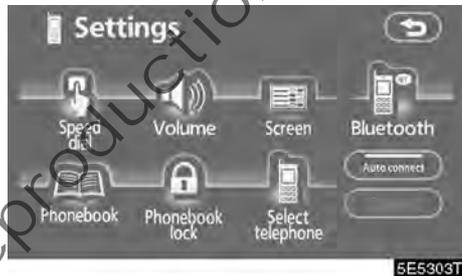


2. Touch “Telephone” to display the “Telephone” screen.

You can also push  of the steering wheel to display this screen when the vehicle is stopped.



3. Touch “Settings” to display “Settings” screen.



4. Touch “Bluetooth\*” to display the “Bluetooth\* settings” screen.



5. Touch “Register” to connect your cellular phone to the system.

\*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.



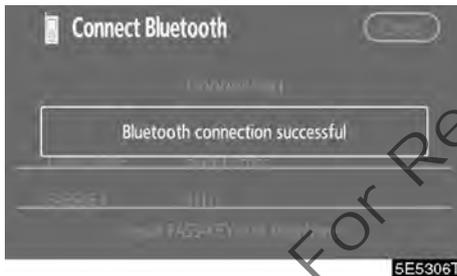
**6. When this screen is displayed, input the PASS-KEY displayed on the screen into the phone.**

For the operation of the phone, see the manual that comes with your cellular phone.

If you want to cancel it, touch “**Cancel**”.



When this screen is displayed, follow the guidance on the screen to try again.



**7. When the connection is completed, this screen is displayed.**

You do not need to enter the phone in case of using the same one.

● Connecting a Bluetooth® phone  
AUTOMATICALLY



When you register your phone, auto connection will be turned on. Always set it to this mode and leave the Bluetooth® phone in a condition where connection can be established.

Each time you touch “Auto connect”, auto connection will be switched on or off.



When the “ENGINE START STOP” switch is in ACCESSORY or IGNITION ON mode, the selected Bluetooth® phone will be automatically connected and the connection result is displayed.

This screen appears when the Bluetooth® phone is first connected after the “ENGINE START STOP” switch is in ACCESSORY or IGNITION ON mode.

MANUALLY

When the auto connection failed or turned off, you have to connect Bluetooth® manually.



Touch “Connect” after having enabled the Bluetooth® connection on the phone.



When the connection is completed, this screen is displayed.

Now you can use the Bluetooth® phone.

- **Reconnecting the Bluetooth® phone**

If the Bluetooth® phone is disconnected with a poor reception from the Bluetooth® network when the “ENGINE START STOP” switch is in ACCESSORY or IGNITION ON mode, the system automatically reconnects the Bluetooth® phone. In this case, the connection result is not displayed.

If the Bluetooth® is disconnected on purpose such as you turned your cellular phone off, this does not happen. Reconnect it by the following methods.

- Select the Bluetooth® phone again.
- Enter the Bluetooth® phone.

## — Call on the Bluetooth® phone

After you enter the Bluetooth® phone, you can call by using hands-free system. You can call using the 7 methods described below.

- **By dial**

You can call by inputting the telephone number.

This cannot be operated while driving.



Touch the desired key to input the telephone number.

Each time you touch ◀, an inputted digit is deleted.

When you touch ☑, the number you called last is inputted.

Touch 📞 or push 📞 of the steering wheel.

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- **By phonebook**

You can call by phonebook data which is transferred from your cellular phone.

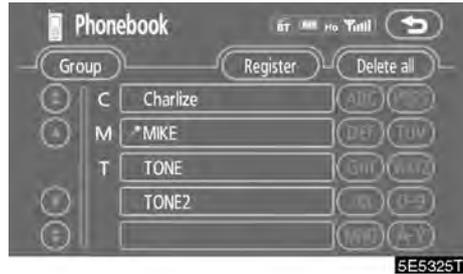
The system has one phonebook. You can register up to 1000 numbers.

This cannot be operated while driving.



Touch the desired key to input the telephone number.

1. Touch "Phonebook" to display "Phonebook" screen.



2. Select the desired number from the list.



Touch  or push  of the steering wheel.

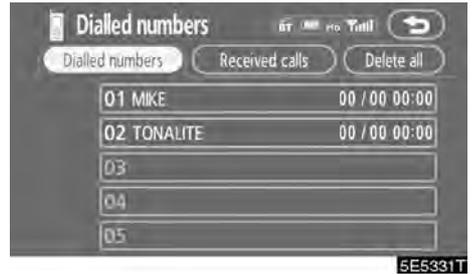
- **By dialed numbers**

You can call by dialed number. The system memorize up to 5 dialed numbers. If it is over than 5, the oldest number is deleted.

This cannot be operated while driving.



1. Touch “Call log” to display the “Dialed numbers” screen.



- When you call by phonebook, the name (if registered) is displayed.
- When you call the same number continuously, only the newest number is registered.

2. Select the desired number from the list.



Touch  or push  of the steering wheel.

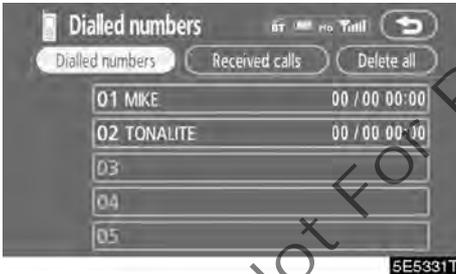
● **By received calls**

You can call by received calls. When a call is received, the system memorize up to 5 numbers. If it is over than 5, the oldest number is deleted.

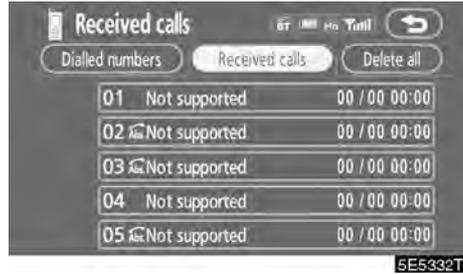
This cannot be operated while driving.



1. Touch “Call log” to display the “Dialled numbers” screen.



2. Touch “Received calls” to display the “Received calls” screen.



- When a telephone number registered in phonebook is received, the name and the number is displayed.
  - Received calls which you did not answer are also memorized in the system and “Abs.” is displayed on the left side of the number.
  - Unnoticed telephone number such as a public telephone is not memorized in the system.
3. Select the desired number from the list.



Touch or push of the steering wheel.

- A international phone call may not be made depending on the cellular phone which you have.

- **By speed dial**

You can call by registered telephone number which you selected from a phone book, dialed numbers and received calls. (See “(a) Registering the speed dial” page 134 for registering the speed dial.)



1. Touch “Speed dial” to display “Speed dial” screen.



2. Touch the desired number to call.

You can change the page by touching “Speed dial 2” or “Speed dial 3”.

When you push the telephone button while driving, the screen above appears. Touch the desired name to call. (The telephone number is not displayed.)

- **By voice recognition**

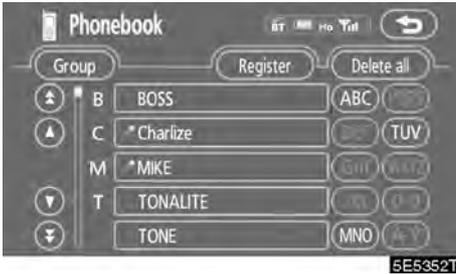


You can call by giving a command.

**DIALING BY NAME**

You can call by giving a voice tag registered in the phone book. For setting the voice recognition, see “● Setting the voice recognition” on page 147.

Example: Call Charlize.



You: Push the talk switch.  
System: “Please say the stored name.”  
You: “Charlize.”  
System: “Charlize selected, please touch “Dial” switch.”  
You: Touch “Dial” switch.  
Now you can call Charlize.

“Next” is displayed when multiple entries are found for a searched name.

Up to 6 entries can be displayed including the first searched one.

Do the following to change the entry to the next one.

- Touch “Next”.

**Calling without the voice recognition**

After the entry number is displayed, you can also call by pushing the telephone switch or touching “Dial”.

**Cancelling the voice recognition**

**The voice recognition will be cancelled when you do the following.**

- Keep on pushing the talk switch.
- Push  of the steering wheel.
- Touch “Cancel”. (Except for recognizing the command)

- By POI call



You can call by touching  when it is displayed on the screen from navigation system. (See page 30 for details.)

## — Receive on the Bluetooth® phone



When a call is received, this screen is displayed with a sound. Touch  or push  of the steering wheel to talk on the phone.

To hang up the phone:

Touch  or push  of the steering wheel again.

To refuse to receive the call:

Touch  and hold it.

To adjust the volume of received call:

Touch “-” or “+” or use the volume switch of the steering wheel.

On the international phone call, the other party's name may not be displayed correctly depending on the cellular phone which you have.

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## — Talk on the Bluetooth® phone



**While you are talking on the phone, this screen is displayed. You can do the operation below on the screen.**

To adjust the volume of the other party's voice:

Touch “-” or “+” or use the volume switch of the steering wheel.

To hang up the phone:

Touch or push of the steering wheel.

To mute your voice:

Touch “**Mute**”.

To input a Key:

Touch “**0-9**”.

To transfer the call

Touch “**Transfer call**”.

You cannot change from Hands-free call to cellular phone call while driving.

When you change from cellular phone call to Hands-free call, the Hands-free screen will be displayed and you can operate it on the screen.

Transferring method and behavior are different depending on the cellular phone which you have.

For the operation of the phone, see the manual that comes with your cellular phone.

Touch the desired number to input the key.

To hang up the phone:

Touch or push of the steering wheel.

This cannot be operated while driving.



If the continuous tone signal is registered in a phone book, this screen appears. (If not registered, “Send” and “Exit” are not displayed.)

Confirm the number displayed on the screen and touch “Send”. The number before marked sign will be sent.

When you touch “Exit”, this function will be finished and normal tone screen appears.

To hang up the phone:

Touch  or push  of the steering wheel.

The continuous tone signal is the marked sign (p or w) and the number following telephone number. (ex. 056133p0123w#1-\*)

You can do this operation when you want to operate an answering machine or use a telephone service in bank for example. You can register the phone number and the code number in the phone book.

- Sending a tone by the speed tone

You can send a tone by the speed tone. (For registering the speed tone, see “(b) Registering the speed tone” on page 136.)



1. Touch “Speed Tone”.



2. Touch the desired button to send a tone.

— Change the settings of the Bluetooth® phone



Touch “Settings” to display the “Settings” screen.

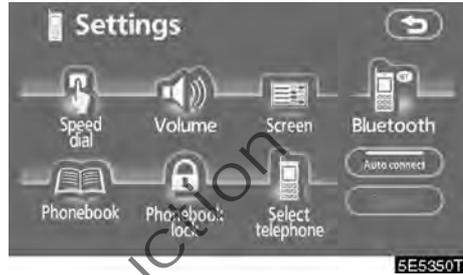


You can change the settings of the phone.

(a) Registering the speed dial

You can register the desired telephone number from phonebook, dialed numbers and received calls. Up to 17 speed dial numbers can be registered.

The 6th entry is the speed dial for redialing.



1. Touch “Speed dial” to display the “Speed dial settings” screen.

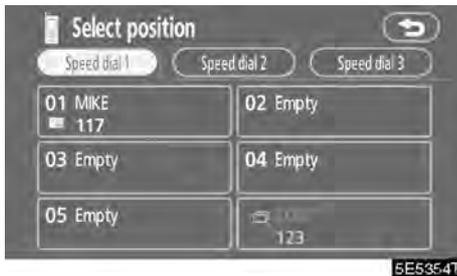


2. Touch “Register” of “Speed dial”.

3. Select the data you want to register.

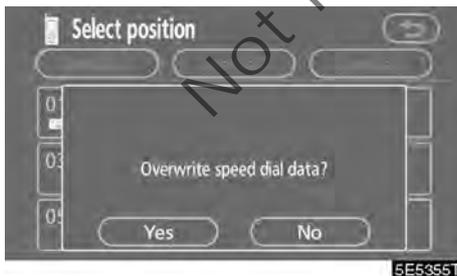


4. Touch the desired telephone number.



5. Touch the touch-screen button you want to register in.

The latest dialed number is registered in the 6th item (speed redial).



If you select a touch-screen button you registered before, this screen is displayed.

6. Touch "Yes" if you want to overwrite it.

• Deleting the speed dial individually

You can delete "01" – "17" of the speed dial individually.

If you delete them all at once, all of 17 numbers are deleted.



1. Touch "Delete" of "Speed dial".



2. Touch the touch-screen button you want to delete.



3. Touch "Yes".

● Deleting all of the speed dial



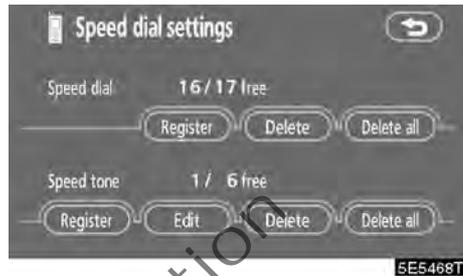
1. Touch “Delete all” of “Speed dial”.



2. Touch “Yes”.

(b) Registering the speed tone

You can register the desired tone number. Up to 6 speed tone numbers can be registered.



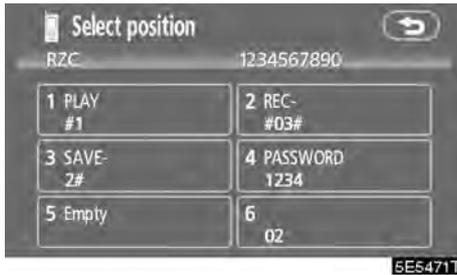
1. Touch “Register” of “Speed tone”.



2. Use the software keyboard to input the name.

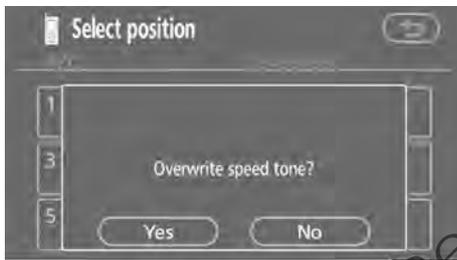


3. Input the number and touch “OK”.



5E5471T

4. Touch the desired touch-screen button you register before.



5E5472T

If you select a touch-screen button you register before, this screen is displayed.

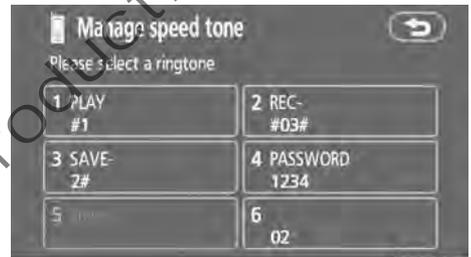
5. Touch "Yes" if you want to overwrite it.

- **Editing the speed tone**  
You can edit the speed tone.



5E5473T

1. Touch "Edit" of "Speed tone".



5E5474T

2. Touch the touch-screen button you want to edit.



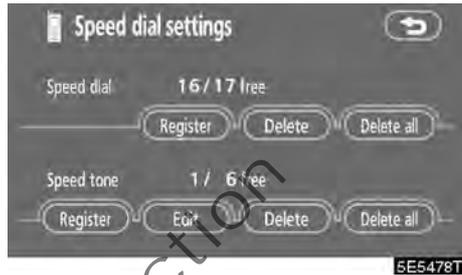
3. Use the software keyboard to input the name.



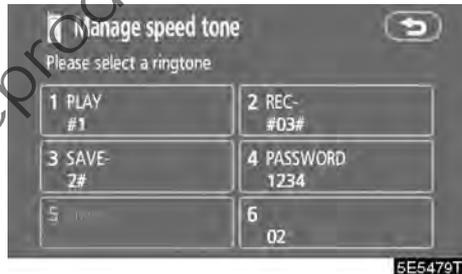
4. Input the number and touch "OK".

● Deleting the speed tone individually  
You can delete "1" to "6" of the speed tone.

If you delete them all at once, all of 6 numbers are deleted.



1. Touch "Delete" of "Speed tone".



2. Touch the touch-screen button you want to delete.



3. Touch "Yes".

- **Deleting all the speed tone**



5E5481T

1. Touch “Delete all” of “Speed tone”.



5E5482T

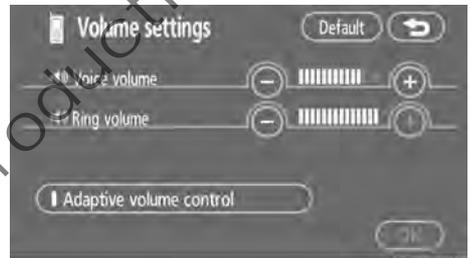
2. Touch “Yes”.

- (c) **Setting the volume**



5E5361T

1. Touch “Volume” to display the “Volume setting” screen.



5E5362T

2. Touch “-” or “+” to adjust the “Voice volume” or “Ring volume”.

“Voice volume” . . . . . Adjusting the other party’s voice.

“Ring volume” . . . . . Adjusting the ring volume.

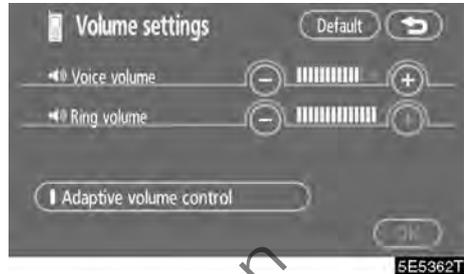
- **Automatic volume settings for high speed**

You can set the volume one step up when the speed is over 80 km/h. (When it is under 70 km/h, previous volume is back.)

Each time you touch “**Adaptive volume control**”, you can switch on or off.

- **Initializing the settings**

You can initialize the settings.



Touch “Default”.

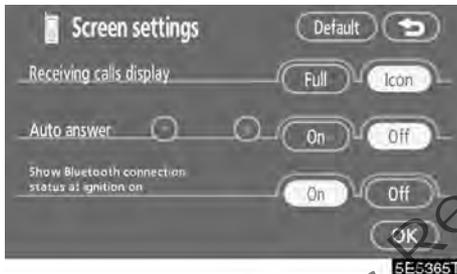


Touch “Yes”.

**(d) Setting the screen**

5E5364T

1. Touch “Screen” to display the “Screen settings” screen.

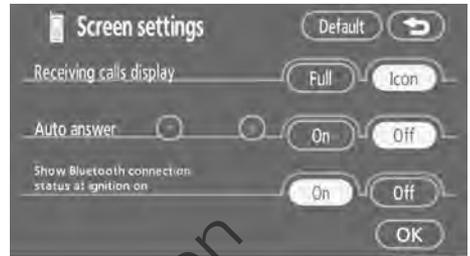


5E5385T

2. Do the detail settings of the screen and touch “OK”.

- **Receiving call display**

You can select the method of the receiving call display.



5E5365T

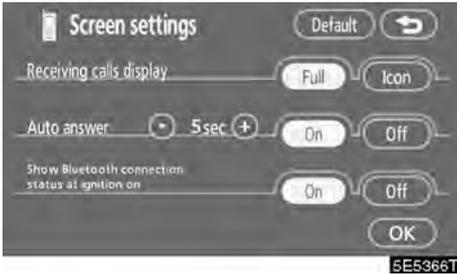
Touch “Full” or “Icon”.

“Full” mode . . . . When a call is received, the Hands-free screen is displayed and you can operate it on the screen.

“Icon” mode . . . The message is displayed on the upper side of the screen. You can only operate the steering switch.

- Auto answer

When a call is received, the display automatically changes to the talking screen and you can start to talk on the phone (without touching any button) after the preset time.

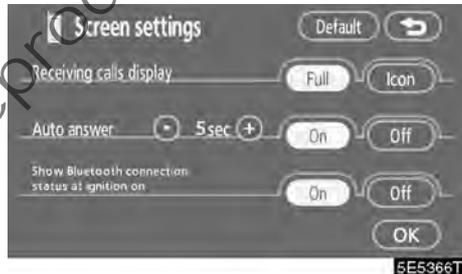


Touch “On” of “Auto answer” and “-” or “+” to adjust the waiting time of auto answer within 1 – 60 seconds.

- The Bluetooth® connection status at startup



When the “ENGINE START STOP” switch is in ACCESSORY or IGNITION ON mode and the Bluetooth® is automatically connected, the connection check is displayed.

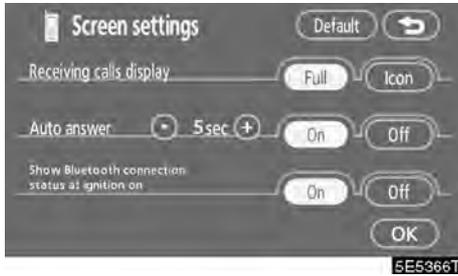


Touch “On” or “Off” of “Show Bluetooth\* connection status at ignition on”.

\*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.

- **Initializing the settings**

You can initialize the settings.



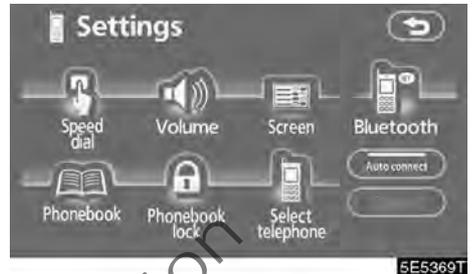
Touch “Default”.



Touch “Yes”.

- (e) **Setting the phonebook**

You can register phone numbers in the phone book.



Touch “Phonebook” to display the “Phonebook management” screen.



You can do the detail settings of phonebook.

● **Transferring a telephone number**

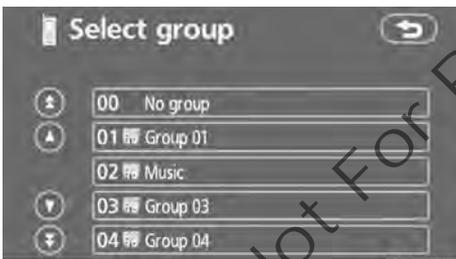
You can transfer the telephone numbers in your Bluetooth® phone to the system. Up to 1000 person's data (up to 2 numbers a person) can be registered in the phonebook.

Transfer it while the engine is running.



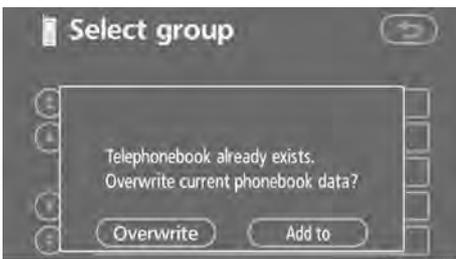
5E5371T

1. Touch "Transfer data" to display "Select group" screen.



5E5372T

2. Select the group you want to transfer to.



5E5373T

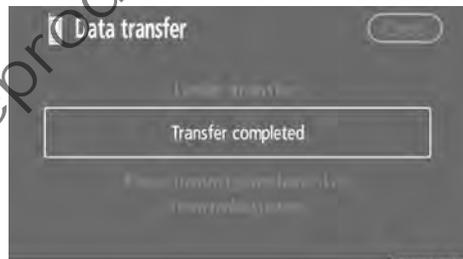
3. Touch "Overwrite" or "Add to".



5E5374T

4. Transfer the phone book data to the system using the Bluetooth® phone.

This screen appears while transferring. To cancel it, touch "Cancel". If the transferring is interrupted on the way, the phonebook data transferred until then can be memorized in the system.



5E5375T

5. When this screen is displayed, the transfer is completed.



5E5376T

When this screen is displayed, try the transfer operation again.

- **Registering the phonebook data**

You can register the phonebook data.



1. Touch “Register” of “Phonebook”.



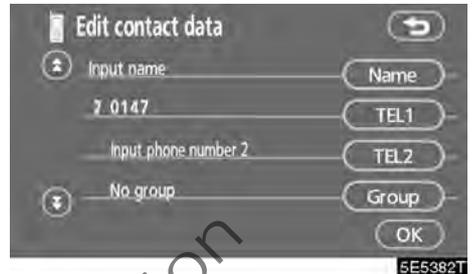
2. Touch the desired touch-screen button to edit the phonebook.



3. When you complete the edit, touch “OK”.

- **Editing the name**

When you don't input the name, the number is displayed.



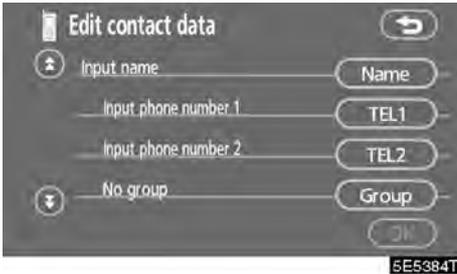
1. Touch “Name”.



2. Use the software keyboard to input the name.

● **Editing the phone number**

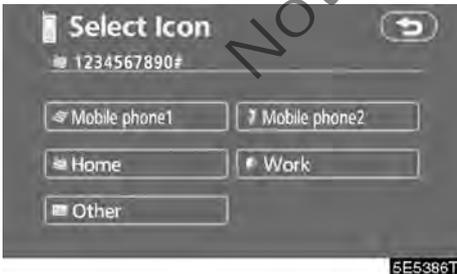
You can register the phone number in “TEL1” and “TEL2” separately. Up to 2 numbers a person can be registered.



1. Touch “TEL1” or “TEL2”.



2. Input the number and touch “OK”.



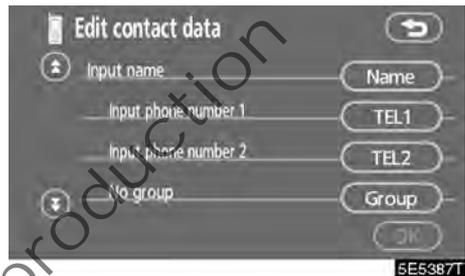
3. Select the desired icon.

● **Selecting the group**

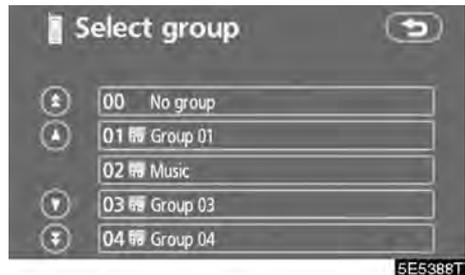
You can set a group for a contact (for example: “Family”, “Friends”, “Office”...). It will then be easier for you to find this contact when needed, by using the group display.

You can select “No Group” or “Group 01” to “Group 19”.

“No Group” is displayed if you don’t set the group.



1. Touch “Group”.



2. Select the desired group.

- **Setting the voice recognition**

You can set the voice recognition. Up to 20 numbers can be registered for the voice recognition.



1. Touch "Voice Rec."



2. Select the phone number and touch "REC" to record a voice tag.



3. Touch "PLAY" to play the voice tag.

If you want to delete it, touch "Delete" and "OK".

- **Adding the data to the phonebook**

You can add data to the phonebook.



1. Touch "Add to".



2. Select the data you want to add log data to.



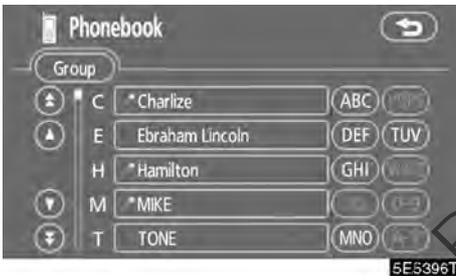
3. Confirm the added data on the screen and touch "OK".

● **Editing the data**

You can edit the registered data.



1. Touch "Edit".



2. Select the data you want to edit.



3. Touch the desired touch-screen button.

When you edit the data, touch "OK".



When you also touch "Edit" on this screen, you can edit it.

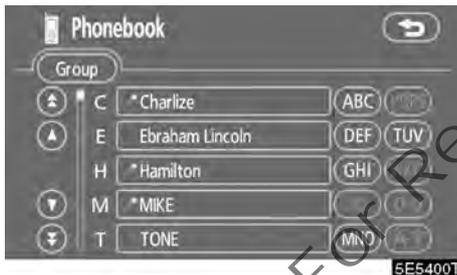
- **Deleting the data**

You can delete the data.

When you release your car, delete all your data on the system.



1. Touch “Delete” of “Phonebook”.



2. Touch the desired touch-screen button.



3. Touch “Yes”.

You can also delete it in the following way.



1. Touch “Phonebook”.



2. Select the desired data.



3. Touch “Delete”.



4. Touch "Yes".

● **Deleting all the phone data**



1. Touch "Delete all" of "Phonebook".



2. **Select the deleting method.**

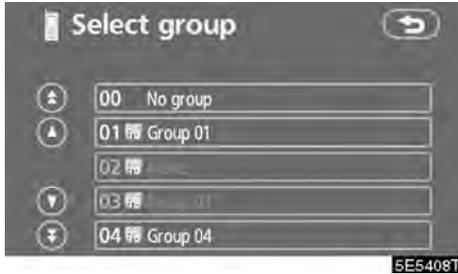
"Group data"

..... Deleting all the phone data in group.

"All contact data"

..... Deleting all the phone data.

3. When you select “Group data”, the “Select group” screen is displayed.



4. Select the desired group.



5. Touch “Yes”.

You can also delete it in the following way.



1. Touch “Phonebook”.



2. Touch “Delete all”.



3. Touch “Yes”.

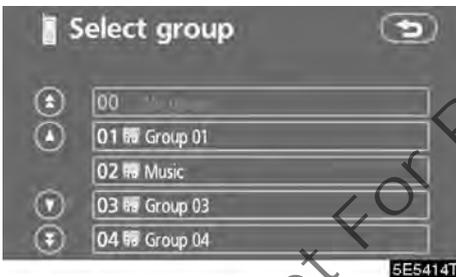
- **Registering a group name**

You can register 20 groups. “No Group”, “Group 01” – “Group 19” is registered by default.

You can change “Group 01” – “Group 19” into desired names.



1. Touch “Register” of “Group name”.

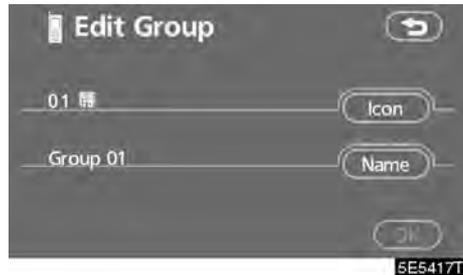


2. Select the group you want to register.



3. When you complete all the edit, touch “OK”.

- **Selecting a group icon**

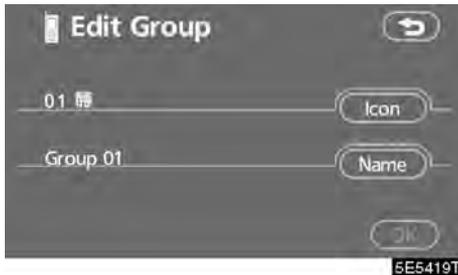


1. Touch “Icon”.



2. Select the desired icon.

- Editing a group name



5E5419T

1. Touch "Name".



5E5420T

2. Use the software keyboard to input the name.

- Deleting a group name

You can delete the group names individually or all at once. If you delete a group name, that group will return to the default setting (excluding "No Group").



5E5421T

1. Touch "Delete" of "Group name".



5E5422T

2. Select the group you want to delete the name of.



5E5423T

3. Touch "Yes".

- **Deleting all the group name**



1. Touch “Delete all” of “Group name”.



2. Touch “Yes”.

- **Deleting the log data**

You can delete the log data individually or all at once.

When you release your car, delete all the data on the system.

**INDIVIDUALLY**

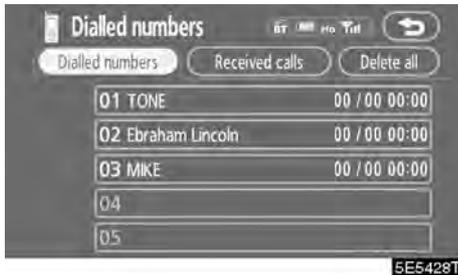


1. Touch “Delete” on the “Log data” screen.



2. Touch “Yes”.

## ALL AT ONCE



1. Touch “Delete all” on the “Dialled numbers” or “Received calls” screen.



2. Touch “Yes”.

## (f) Setting the security

When you set the security, you can prevent people from using some functions of the Hands-free system. It is useful when you leave your car with the hotel or you don't want others to see the data you registered.

When you set or unlock the security, you have to input the security code. Be sure to change the default code when you use the security for the first time.

● **Changing the security code**

The security code is 4 digits and the default is “0000”.

Change a new code that is hard for other people to know.

When you change the security code, don't forget the code. The dealers cannot unlock the security when you forget it.

If you forget the security code, initialize your personal data. When you initialize it, not only the phone book data but also the memory points in the navigation system, etc. will be deleted. (See “● Initializing the security code” on page 158.)

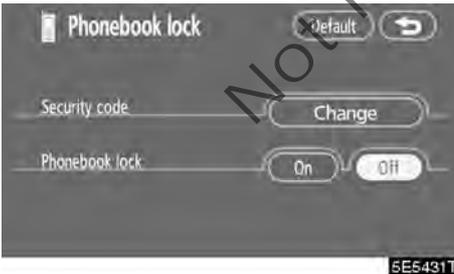


**3. Input the security code.**

Each time you touch , an input digit is deleted.



**1. Touch “Phonebook lock”.**



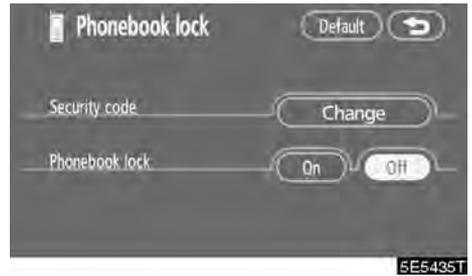
**2. Touch “Change”.**

- **Phonebook Lock**

**When you set the phonebook lock, you can have the following functions locked.**

- Display of the phone book screen and transferring, registering, editing, deleting the phonebook data.
- Display of speed dial screen, registering, deleting the speed dial and speed dialing.
- Display of the other party's name for calls being received or made.
- Display of dialed numbers screen and received calls screen, deleting dialed numbers and received numbers.
- Display of phone information screen.
- Changing the security code.

When you set this function, the speed dial screen is not displayed while driving.



1. Touch "On".

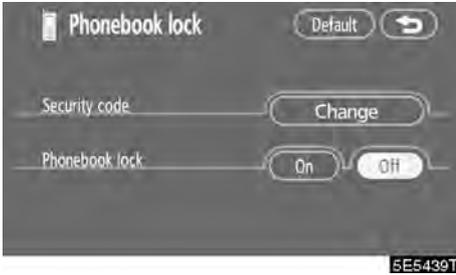


2. Input the security code and touch "OK".

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- **Initializing the security code**

You can initialize the settings.



1. Touch “Default”.



2. Input the security code and touch “OK”.



3. Touch “Yes”.

## — Set a Bluetooth® phone

- **Selecting a Bluetooth® phone**

In case you register more than one Bluetooth® phone, you need to choose a favorite one.



1. Touch “Settings” to display “Settings” screen.



2. Touch “Select telephone” to display the “Select telephone” screen.

**You can select the Bluetooth® phone from a maximum of 6 numbers.**

“Empty” is displayed when you have not registered a Bluetooth® phone yet.

Bluetooth® mark is displayed when you choose the phone.



5E5443T

Although you can register up to 6 Bluetooth® phones in the system, only one Bluetooth® phone can function at a time.



5E5444T

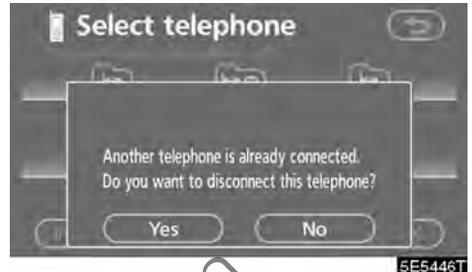
**3. Touch “OK”.**



5E5445T

When the result message is displayed, you can use the Bluetooth® phone.

When another Bluetooth® phone is trying to connect, this screen is displayed.



5E5446T

**Touch “Yes” or “No”.**

● **Displaying Bluetooth® information**

You can see or set the information of the Bluetooth® phone on the system.

“Device name”

- .. The name of Bluetooth® phone which is displayed on the screen. You can change it into a desired name.

“Bluetooth\* device address”

- .. The address peculiar to the system. You cannot change it.



5E5448T

2. Touch “Change”.



5E5447T



5E5449T

1. Select the desired phone and touch “Information”.

\*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.

3. When you complete the setting, touch



- **Changing a device name**

You can change a device name. If you change a device name, the name registered in your cellular phone is not changed.



1. Touch "Change".



2. Use the software keyboard to input the device name.

- **Changing the Bluetooth® settings**

You can change the display and settings of Bluetooth® information on the system.

The information displays the following items.

"Device name"

- .. The name in the Bluetooth® network. You can change it.

"PASS-KEY"

- .. The password when you register your cellular phone in the system. You can change it into the figure of 4–8 digits.

"Bluetooth\* device address"

- .. The address peculiar to the system. You can not change it. If you have registered two Bluetooth® phones with the same device name or PASS-KEY and you cannot distinguish one from the other, refer to it.

\*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.

When you change the device name or PASS-KEY, do the followings.



1. Touch "Bluetooth\*".



2. Touch "Change" of "Device name" or "PASS-KEY".



3. Use the software keyboard to input the device name.

You can input up to 20 characters.



4. Input a PASS-KEY with 4 – 8 digits.

When you touch ◀, the input number is deleted.



5. When you complete the setting, touch



- **Initializing the Bluetooth® settings.**

You can initialize the settings.



5E5458T

1. Touch “Default”.



5E5459T

2. Touch “Yes”.

- **Deleting a Bluetooth® phone**



5E5460T

1. Touch “Delete” of “Bluetooth\* telephone”.



5E5461T

2. Select the telephone you want to delete and touch “OK”.



5E5462T

3. Touch “Yes”.

\*: Bluetooth is a registered trademark of Bluetooth SIG, Inc.

When you delete the telephone while another Bluetooth® phone is connecting, this message is displayed.



Touch "Yes".

- Displaying the information of the Bluetooth® phone you delete

You can display the information of the Bluetooth® phone before you delete it and you can make sure whether the telephone you delete is correct or not.



1. Select the telephone you want to display the information about.



2. When you complete confirming it, touch  .

## Clock adjustment

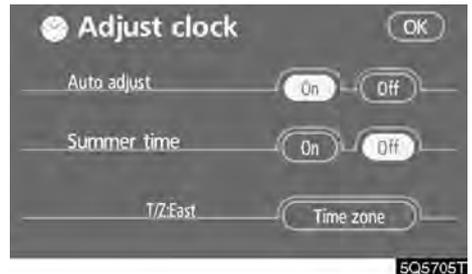
The clock in this system can be corrected manually or by using signals from the GPS. Summer time setting or your desired time setting is available.



1. Push the "INFO" button.



2. Touch "Adjust clock".



**Auto adjust On:** When you touch this switch, the time is set to the GPS clock, and this switch is highlighted in green.

**Auto adjust Off:** To reset the hour, touch the "H" switch. To reset the minute, touch the "M" switch. To adjust the time to the nearest hour, touch ":00" switch.

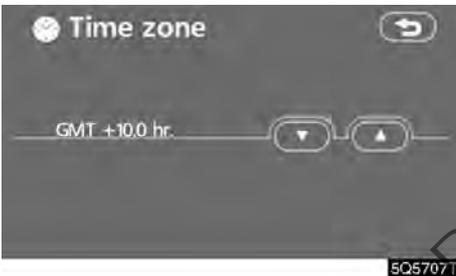
**Summer time:** Summer time can be set or canceled.

While daylight saving time is set, this switch is highlighted in green.

**Time zone:** You can select the time zone. Touching this switch changes to the time zone selection screen.



Touch the switch of your desired area. The time zone for the area is set and the previous screen returns.



When you touch "Others", this screen is displayed. Touch "▲" or "▼" to adjust the time zone.

## Screen adjustment

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



1. Push the "DISP" button.



2. Contrast and brightness adjustment

"Contrast" "+": Strengthens the contrast of the screen.

"Contrast" "-": Weakens the contrast of the screen.

"Brightness" "+": Brightens the screen.

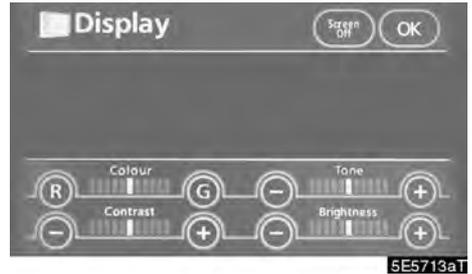
"Brightness" "-": Darkens the screen.

### 3. After adjusting the screen, touch “OK”.

The screen goes off when “**Screen off**” is touched. To turn the display screen back on, push any button such as “**INFO**”, etc. The selected screen appears.

#### **INFORMATION**

*When you do not touch any button on the “Display” screen for 20 seconds, the previous screen will be displayed.*



### 1. Touch the desired button to adjust color and tone.

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

“**Colour**” “**R**”: Strengthens the red color of the screen.

“**Colour**” “**G**”: Strengthens the green color of the screen.

“**Tone**” “**+**”: Strengthens the tone of the screen.

“**Tone**” “**-**”: Weakens the tone of the screen.

### 2. After adjusting the screen, touch “OK”.

If your vehicle is equipped with the rear seat entertainment system, the rear seat turns on or off when “**Rear**” is touched.

The screen turns off when “**Screen Off**” is touched. To turn the screen back on, push any button such as “**INFO**”, etc. The selected screen appears.

#### **INFORMATION**

*When you do not touch any button on the “Display” screen for 20 seconds, the previous screen will be displayed.*

## Screen setting



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

To display the screen in the day mode even with the headlight switch on, touch **“Day mode”** on the adjustment screen for brightness and contrast control.

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



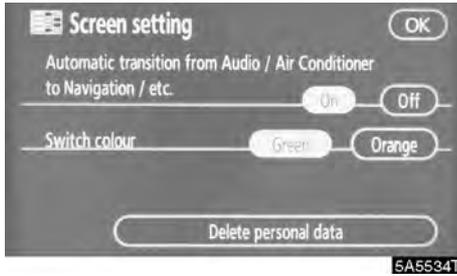
1. Push the **“INFO”** button to display the **“Information”** screen.



2. Touch **“Screen setting”**.

**(a) Automatic transition**

You can select a function that enables automatic return to the navigation screen from the audio/air conditioner screen.



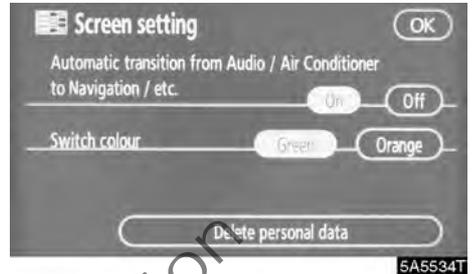
Select “On” or “Off” and then touch “OK”.

“On”: The navigation screen automatically returns from the audio/air conditioner screen 20 seconds after the end of audio/air conditioner screen operation.

“Off”: The audio/air conditioner screen remains on.

**(b) Switch colour**

You can select the colour of the touch-screen buttons.



Select “Green” or “Orange” and then touch “OK”.

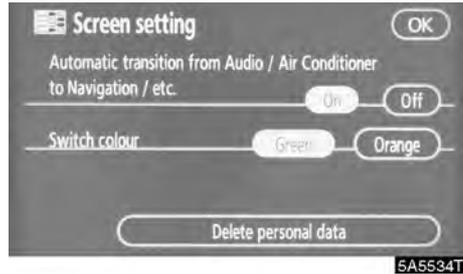
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**(c) Delete personal data**

The following personal data can be deleted or returned to their default settings:

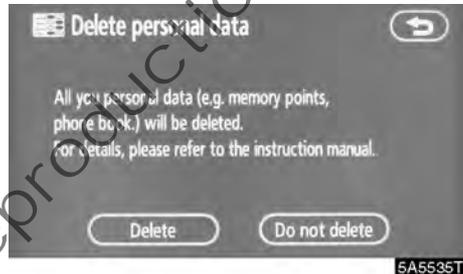
- **Maintenance conditions**
- **Maintenance information “off” setting**
- **Memory points**
- **Areas to avoid**
- **Previous points**
- **Route trace**
- **User selection settings**
- **Phone book data**
- **Dialed numbers and received calls**
- **Speed dial**
- **Bluetooth® phone data**
- **Security code**

This function is available only when the vehicle is not moving.



**1. Touch “Delete personal data”.**

The “Delete personal data” screen appears.



**2. Touch “Delete”.**

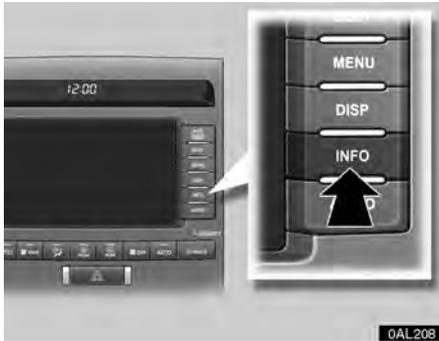
The “Confirmation for deleting all personal data” screen appears.



**3. Touch “Yes”.**

## Beep setting

You can set a beep sound off.



1. Push the “INFO” button.



2. Touch “Beep off”.

“Beep off” is highlighted.

To switch the beep sound on, touch “Beep off” again.

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# SECTION 6

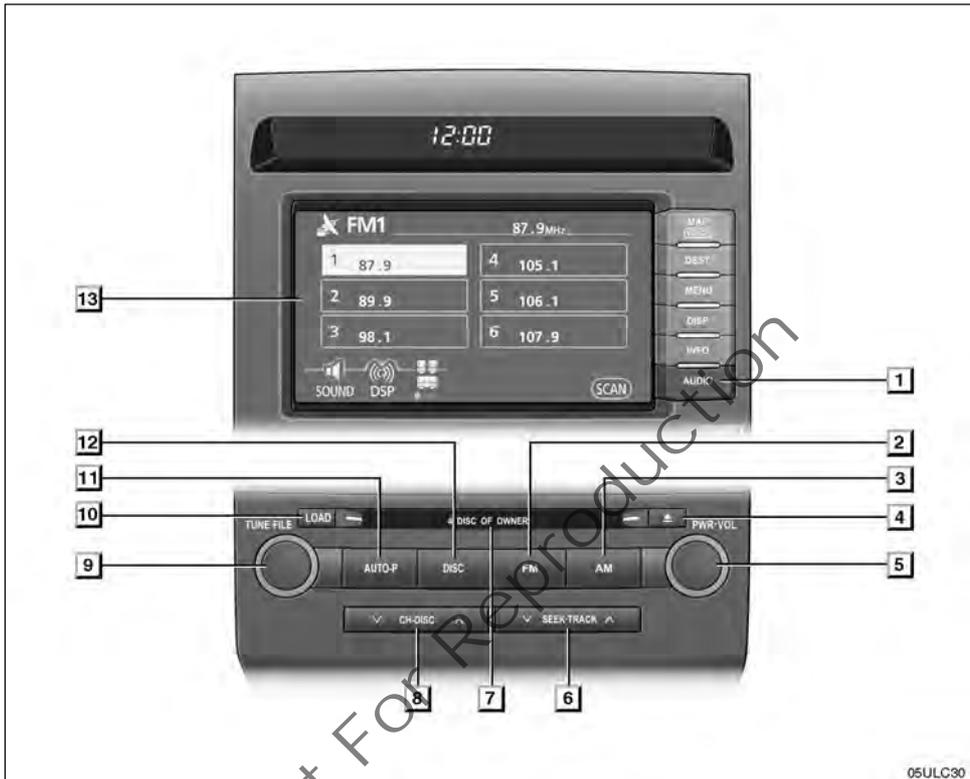
## AUDIO/VIDEO SYSTEM

- Quick reference ..... 174
- **Using your audio/video system** ..... 175
  - Some basics ..... 175
  - Radio operation ..... 181
  - DVD changer operation ..... 183
- Audio/video remote controls ..... 214
- Audio/video system operating hints ..... 215

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Quick reference



05ULC30

- 1 "AUDIO" button**  
Push this button to display the audio control screen. For details, see page 176, 189, 191, 198 and 209.

**2 "FM" button**  
Push this button to choose an FM station. For details, see pages 176 and 181.

**3 "AM" button**  
Push this button to choose an AM station. For details, see pages 176, 181.
- 4 button for the discs**  
Push this button to stop and eject the disc. For details, see page 186.

**5 "PWR-VOL" knob**  
Push this knob to turn the audio system on and off, and turn it to adjust the volume. For details, see page 176.

**6 "SEEK-TRACK" button**  
Push "" or "" button to seek up or down for a station, or to access a desired program, track, file or chapter. For details, see pages 182, 189, 193, 201 and 211.

## Using your audio/video system — — Some basics

- 7 Disc slot**  
Insert discs into the slot after pushing “LOAD” button. For details, see page 184.
- 8 “CH-DISC” button**  
Push “^” or “v” button to select a pre-set radio channel or a selected disc. For details, see pages 182, 186 and 188.
- 9 “AUDIO CONTROL/TUNE-FILE” knob**  
Push this knob to adjust the audio sounds. Turn this knob to move up or down the station band or file. For details, see page 181 and 193.
- 10 “LOAD” button**  
Push this button to insert the discs. For details, see page 184.
- 11 “AUTO-P” button**  
Push this button to automatically preset frequencies of up to 6 radio stations for each band. For details, see page 183.
- 12 “DISC” button**  
Push this button to turn the DVD changer on. For details, see pages 176, 187.
- 13 Function button display screen**  
Touch the buttons displayed on the screen to control the radio and DVD changer. For details, see page 177.

This section describes some of the basic features on Toyota audio/video systems. Some information may not pertain to your system.

Your audio/video system works when the “ENGINE START STOP” switch is in the ACCESSORY or IGNITION ON mode.

### NOTICE

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

- Turning the system on and off



**“PWR·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 touch-screen buttons for audio system (audio control mode).

You can select the function that enables automatic return to the previous screen from the audio screen. See “(a) Automatic transition” on page 169 for details.

- Switching between functions



**Push “AM”, “FM” or “DISC” button to turn on the desired mode. The selected mode turns on immediately.**

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

If the disc is not set, the DVD changer does not turn on.

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



### INFORMATION

- If the system does not respond to a touch of a touch-screen button, move your finger away from the screen and then touch it again.
- You cannot operate dimmed touch-screen buttons.
- Wipe off fingerprints on the surface of the display using a glass cleaning cloth.

The buttons for radio and DVD changer operation are displayed on the function button display screen when the audio control mode is selected.

**Touch them lightly and directly on the screen.**

The selected button is highlighted.

● **Tone and balance**

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

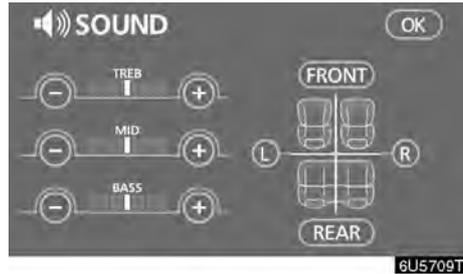
A good balance of the left and right stereo channels and of the front and rear sound levels is also important.

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.

**1. Push the “AUDIO” button.**



**2. Touch “SOUND” to display the sound adjustment screen.**



**3. Touch the desired button.**

“TREB” “+” or “-”: Adjusts high-pitched tones.

“MID” “+” or “-”: Adjusts mid-pitched tones.

“BASS” “+” or “-”: Adjusts low-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.

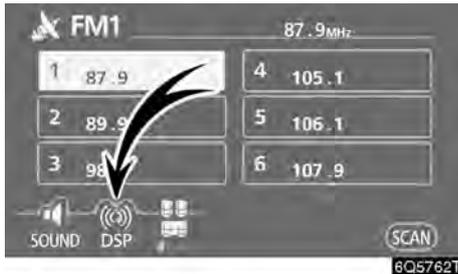
**4. Touch “OK”.**

The tone of each mode (for such as AM, FM and DVD changer) can be adjusted.

- **DSP control**

You can change the listening position or turn on/off the surround function and the automatic sound levelizer.

1. Push the “AUDIO” button.



2. Touch “DSP” to display the DSP control mode screen.



**Automatic sound levelizer (ASL):**

When the audio sound becomes difficult to hear due to road noise, wind noise or other noises while driving, touch “ON”. The system adjusts to the optimum volume and tone quality according to the noise level.

When the system is on, the sound adjustment level is displayed on the screen.

**Positioning selector:**

By selecting the listening position, the system controls the output timing of the speakers to allow sound to be heard evenly, creating the ideal music environment.

Touching “CHANGE” switches the position in the following order: all seats, driver’s seat, front seat, rear seat.

The position currently selected is displayed on the screen.

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● **Selecting screen size**

The video screen can be changed from normal mode to wide mode.

1. Push the “AUDIO” button.



2. Touch “WIDE”.



Touching “WIDE” displayed on the screen in the video control mode will display the wide mode control screen.

“NORMAL”: When a 3 × 4 screen is displayed, the remaining parts will be in black.

“WIDE 1”: When a 3 × 4 screen is displayed, the screen will be widened horizontally to fill the display.

“WIDE 2”: When a 3 × 4 screen is displayed, the screen will be widened vertically and horizontally, in the same ratio, to fill the display.

When a 9 × 16 screen is displayed, this mode should be selected.

When you touch , the previous screen returns.

● **Your DVD changer**

Your DVD changer can store up to 6 discs and play selected discs or continuously play all the discs load in the changer.

When you load discs into the changer, make sure their labels are face up. If not, “DISC × Check” will appear on the screen.



**NOTICE**

- **Do not stack up two discs for insertion, or it will cause damage to the changer. Insert only one disc into slot at a time.**
- **Never try to disassemble or oil any part of the changer. Do not insert anything other than discs into the slot.**

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

## — Radio operation

- Listening to the radio



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

“AM”, “FM1” or “FM2” appears on the screen.

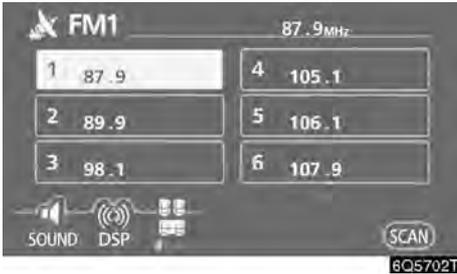


Turn the knob clockwise to step up the station band or counterclockwise to step down.

Your radio automatically changes to stereo reception when a stereo broadcast is received. “ST” appears on the screen. 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 screen.

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● **Presetting a station**



1. **Tune in the desired station.**
2. **Touch one of the channel selector touch-screen buttons (1 — 6) you want and hold it until a beep is heard.**

This sets the station to the button and the frequency appears on the touch-screen button. Each radio mode can store up to 6 stations. 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.

● **Selecting a station**

Tune in the desired station using one of the following methods.

**Preset tuning:** Touch the channel selector touch-screen button (1 — 6) for the station you want. The touch-screen button is highlighted and the station frequency appears on the screen.

**Seek tuning:** Push the “^” or “v” button of “SEEK-TRACK”. 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 automatically one after another.

**To scan all the frequencies:** Touch “SCAN” on the screen briefly. “SCAN” appears on the screen. The radio will find the next station and stay there for a few seconds, and then scan again. To select a station, touch “SCAN” or again.

**To scan the preset stations:** Touch “SCAN” on the screen or for longer than approximately a second. “P-SCAN” appears on the screen. The radio will tune in the next preset station, stay there for a few seconds, and then move to the next preset station. To select a station, touch “SCAN” or again.

- **Automatically preset**  
**AUTO-P (Auto preset)**

This button is used to automatically preset frequencies of up to 6 radio stations for each band.



Push “**AUTO-P**” until a beep is heard. If the radio cannot seek out any stations, it will receive the frequency before you operate “**AUTO-P**”.

## — DVD changer operation

The DVD changer can play audio CDs, video CDs, CD text, WMA discs, MP3 discs, DVD video discs and DVD audio discs.

- Audio CD, CD text ..... 188
- MP3/WMA disc ..... 191
- DVD video, DVD audio ..... 197
- Video CD ..... 209

For appropriate discs for this changer, see “Audio/video system operating hints” on page 215.

For safety reasons, you can enjoy DVD video discs, DVD audio discs and video CDs only when the vehicle is completely stopped with the “ENGINE START STOP” switch is in the ACCESSORY or IGNITION ON mode and the parking brake applied. While you are driving, you can hear audio alone even in the DVD video, DVD audio or video CD mode.

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### (a) Inserting or ejecting discs

The “ENGINE START STOP” switch must be in the ACCESSORY or IGNITION ON mode.

Your DVD changer can store up to 6 discs.

#### ● Setting a single disc:



#### 1. Push the “LOAD” button briefly.

The amber indicators at both ends of the slot start blinking. After the amber indicators change to green and stay on, the DVD changer door will open.



#### 2. Insert only one disc while the DVD changer door is open.

You can set a disc at the lowest empty disc number.

After insertion, the set disc is automatically loaded.

If the label faces down, the disc cannot be played. In this case, “DISC × Check” appears on the screen.

If you do not insert the disc within 15 seconds after pushing the “LOAD” button, the beep will sound and the operation will be canceled automatically.

If you need to insert the next disc, repeat the same procedure to insert another disc.

- **Setting all the discs:**



- 1. Push the “LOAD” button until you hear a beep.**

The amber indicators at both ends of the slot start blinking. After the amber indicators change to green and stay on, the DVD changer door will open.



- 2. Insert only one disc while the DVD changer door is open.**

The DVD changer door closes and the amber indicators start blinking.

- 3. Insert the next disc after the amber indicators change to green and stay on and the DVD changer door opens.**

- 4. Repeat this procedure until you insert all the discs.**

To cancel the operation, push the “LOAD” or “DISC” button.

If you do not insert the discs within 15 seconds after pushing the “LOAD” button, the beep will sound and the operation will be canceled automatically.

### NOTICE

*Do not insert one disc stacked on top of another one or feed them in continuously, to prevent discs from getting stuck in the changer.*

● Ejecting a single alone:



2. Push the ▲ button for the disc briefly. At this time, the amber indicators of the slot start blinking and the disc is ejected.
3. After the blinking indicators stay on, remove the disc.

1. Push the “^” or “v” button of “CH-DISC” or touch the disc number button on the screen to highlight the disc number you want to eject.

● Ejecting all the discs:



1. Push the  button for the disc until you hear a beep.

At this time, the amber indicators of the slot start blinking and a disc is ejected.

2. After the blinking indicators stay on, remove the disc.

The indicators start blinking again and the next disc is ejected.

To cancel the operation, push the "LOAD" or "DISC" button.

If you do not remove the disc within 15 seconds after it is ejected, the beep will sound and the operation will be canceled automatically.

When all the discs are removed, the indicators go out.



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

(b) Playing a disc



Push the "DISC" button if the disc are already loaded in the DVD changer.

The "DVD CHANGER" screen will be displayed.

The discs set in the DVD changer are played continuously, starting with the last disc you inserted. The disc number of the disc currently being played, the track or title and chapter number and the time from the beginning of the program are shown on the display.

Audio disc and MP3/WMA disc only —

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

The changer will skip any empty disc trays. Vehicles with rear entertainment system —

If the DVD player is turned on, push the "DISC" button again to switch to the changer.

If the rear seat entertainment system is on, pushing the "DISC" button switches the sound of the front audio system and that of the rear seat entertainment system.

**(c) Selecting a desired disc**



**On the screen:**

**Touch the desired disc number.**

The selected disc number is highlighted.

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

**On the audio panel:**

**Push the “^” or “v” button of “CH-DISC”.**

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

**(d) Operating an audio CD**

● **Playing an audio CD**



**Push the “AUDIO” button to display this screen.**

CD text only—The disc title and track title will appear on the screen when pushing the “DISC” button.

You can operate the touch-screen buttons and choose the number of the disc you want to play. The selected disc is automatically played.

● **Selecting a desired track**



**“SEEK-TRACK” button:** Use for a direct access to a desired track.

Push the “^” or “v” button of “SEEK-TRACK” and repeat it until the desired track number appears on the screen. As you release the button, the changer will start playing the selected track from the beginning.

**“TRACK LIST”:** The desired track can be selected from a list. This function is available only when the vehicle is not moving.

Touch **“TRACK LIST”**. The track list is displayed.



Touch the desired track number. The changer will start playing the selected track from the beginning.

**▲:** By touching this button, the list moves up by 6 track groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

**▼:** By touching this button, the list moves down by 6 track groups. If this button is touched when the last page of the list is displayed, the top page is displayed.

**Fast forward:** Push the “^” button of “SEEK-TRACK” and hold it to fast forward the disc. When you release the button, the changer will resume playing from that position.

**Reverse:** Push the “v” button of “SEEK-TRACK” and hold it to reverse the disc. When you release the button, the changer will resume playing.

Vehicles with rear entertainment system —

While the DVD player is in operation, the chapter or track can be changed by pushing either side of the **“SEEK-TRACK”** button.

● **Searching for a desired track or a disc**

**Searching for a desired track —**

**While the disc is playing, touch “SCAN” on the screen briefly.**

“SCAN” appears on the screen. The changer will play the next track for 10 seconds, then scan again. To select a track, touch “SCAN” once again. If the changer reaches the end of the disc, it will continue scanning at track 1.

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

**Searching for a desired disc —**

**While the disc is playing, touch “SCAN” on the screen and hold it until the “D-SCAN” appears on the screen.**

The program at the beginning of each audio disc will be played for 10 seconds. To continue listening to the program of your choice, touch “SCAN” once again.

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

● **Other functions**



“RPT”: Use it for automatic repeat of the track or disc you are currently listening to.

**Repeating a track —**

**While the track is playing, touch “RPT” briefly.**

“RPT” appears on the screen. When the track is finished, the changer will automatically go back to the beginning of the track and play the track again. To cancel it, touch “RPT” once again.

**Repeating a disc —**

**While the disc is playing, touch “RPT” and hold it until the “D-RPT” appears on the screen.**

When the disc is finished, the changer will automatically go back to the beginning of the disc and play the disc again. To cancel it, touch “RPT” once again.

**“RAND”**: Use it for automatic and random selection.

**Playing the tracks on one disc in random order —**

**While the disc is playing, touch “RAND” briefly.**

“RAND” appears on the screen. The system selects a track on the disc being listened to in random order. To cancel it, touch “RAND” once again.

**Playing the tracks on all the audio discs in random order —**

**While the disc is playing, touch “RAND” and hold it until the “D-RAND” appears on the screen.**

The system selects a track on all the audio discs in the changer in random order. To cancel it, touch “RAND” once again.

If a CD-TEXT disc is inserted, the title of the disc and track will be displayed. Up to 29 letters can be displayed.

### (e) Operating a MP3/WMA disc

#### ● Playing a MP3/WMA disc



Push the “AUDIO” button and touch a MP3/WMA disc number to display this screen.

You can operate the touch-screen buttons and choose the number of the disc you want to play. The selected disc is automatically played.

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● **Selecting a desired folder**



“**FOLDER▲**”: Touch “**FOLDER▲**” to go to the next folder.

“**FOLDER▼**”: Touch “**FOLDER▼**” briefly to go to the previous folder. To jump up to the first folder, touch “**FOLDER▼**” and hold it until the beep sounds.

“**FOLDER LIST**”: The desired folder can be selected in a list. This function is available only when the vehicle is not moving.

Touch “**FOLDER LIST**”. The folder list is displayed.

Touch the desired folder number. The changer will start playing the first file of the selected folder.

▲: By touching this button, the list moves up by 6 folder groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

▼: By touching this button, the list moves down by 6 folder groups. If this button is touched when the last page of the list is displayed, the top page is displayed.

“**FILE**”: The file list is displayed.

“**DETAIL**”: Details of the file currently playing is displayed. This function is available only when the vehicle is not moving.

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- **Selecting a desired file**



**“SEEK-TRACK” button:** Use for direct access to a desired file.

Push the “^” or “v” button of “SEEK-TRACK” and repeat it until the desired file number appears on the display. As you release the button, the changer will start playing the selected file from the beginning. When “RAND” or “FLD-RPT” is on, the file number within the folder you are currently being listened to appears.

**Fast forward:** Push the “^” button of “SEEK-TRACK” and hold it to fast forward the disc. When you release the button, the changer will resume playing from that position.

**Reverse:** Push the “v” button of “SEEK-TRACK” and hold it to reverse the disc. When you release the button, the changer will resume playing.



**“TUNE-FILE” knob:** Use for direct access to a desired file in the disc.

Turn the “TUNE-FILE” knob to step up or down all the files in the disc you are currently listening to. The file number appears on the display. When “RAND” or “FLD-RPT” is on, all the files in the folder you are currently being listened to can be stepped up or down.



**“FILE”**: The desired file can be selected in a list. This function is available only when the vehicle is not moving.

Touch **“FILE”**. The file list is displayed.

Touch the desired file number. The changer will start playing the selected file from the beginning.

**▲**: By touching this button, the list moves up by 6 file groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

**▼**: By touching this button, the list moves down by 6 file groups. If this button is touched when the last page of the list is displayed, the top page is displayed.

**“FOLDER”**: The folder list is displayed.

**“DETAIL”**: Details of the file currently playing is displayed. This function is available only when the vehicle is not moving.

- Searching for a desired file



While the disc is playing, touch “SCAN” on the screen briefly.

“SCAN” appears on the screen. The changer will play the next file in the folder for 10 seconds, then scan again. To select a file, touch “SCAN” on the screen once again. If the changer reaches the end of the folder, it will continue scanning from file 1.

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

- Searching for a desired folder



While the disc is playing, touch “SCAN” on the screen and hold it until the “FLD-SCAN” appears on the screen.

The program at the beginning of each folder will be played for 10 seconds. To continue listening to the program of your choice, touch “SCAN” on the screen once again.

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

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● Other functions



“RPT”: Use it for automatic repeat of the file or folder you are currently listening to.

**Repeating a file —**

**While the file is playing, touch “RPT” briefly.**

“RPT” appears on the screen. When the file is finished, the changer will automatically go back to the beginning of the file and play the file again. To cancel it, touch “RPT” once again.

**Repeating a folder —**

**While the folder is playing, touch “RPT” and hold it until the “FLD·RPT” appears on the screen.**

When the folder is finished, the changer will automatically go back to the beginning of the folder and play the folder again. To cancel it, touch “RPT” once again.

“RAND”: Use it for automatic and random selection of the folder or the disc which you are currently listening to.

**Playing the files in one folder in random order —**

**While the disc is playing, touch “RAND” briefly.**

“RAND” appears on the screen. The system selects a file in the folder you are currently listening to. To cancel it, touch “RAND” once again.

**Playing the files in all the folders on one disc in random order —**

**While the disc is playing, touch “RAND” and hold it until the “FLD·RAND” appears on the screen.**

The system selects a file in all the folders. To cancel it, touch “RAND” once again.

When a file is skipped or the system is inoperative, touch “RAND” to reset.

If a MP3/WMA disc with text data is inserted, the title of the folder and file will be displayed. Up to 29 letters can be displayed.

**(f) Operating a DVD disc**

**NOTE:** The playback condition of some DVD discs may be determined by a DVD software producer. This DVD changer 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 disc separately provided. For the detailed information about DVD video discs, see “(g) DVD player and DVD video disc information” on page 212.

- **Precautions on DVD video disc**

When recording with a DVD video, DVD audio 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 or MP3/WMA disc is playing, the first track or file starts.
- If a DVD video, DVD audio or video CD is playing, playback will stop or the menu screen will be displayed.

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



This “DVD Hint!” screen appears when the video screen is first displayed after the “ENGINE START STOP” switch is in the ACCESSORY or IGNITION ON mode.

Touch “OK” when you read the message.

**CAUTION**

**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. The louder sounds may have a significant impact on the human body or pose a driving hazard. Keep this in mind when you adjust the volume.**

- **Playing a DVD disc**



Push the “**AUDIO**” button to display this screen. You can operate the touch–screen buttons and choose the number of the disc you want to play. The selected disc is automatically played.

When you touch “**WIDE**”, the screen mode can be changed.

If you touch “**PICTURE**” when the vehicle is completely stopped and the parking brake is applied, the video screen returns.

- **Displaying DVD controls**



▶ **DVD video**

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► **DVD audio**

If you touch a part of the screen, where controls are not located while watching video, DVD controls will appear.

“> **Page2**”: Touching this will display on the second page of DVD controls.

“< **Page1**”: Touching this will display the top page of DVD controls.

“**Hide buttons**”: Touching this will turn off the controls from the screen.

If “⊘” appears on the screen when you touch a control, the operation relevant to the control is not permitted.

● **Description of DVD controls**

**TOP PAGE OF DVD VIDEO CONTROLS**

“**Menu**” and “**Top menu**”: If you touch either button, the menu screen for DVD video appears. (For the operation, see the manual that come with the DVD video disc provided separately.)

 : The menu control key appears on the screen. (See page 200.)

 : Touching this will pause the video screen.

 : Touching this will fast reverse.

 : Touching this will stop the DVD video disc.

 : Touching this will resume normal play after stop or pause.

 : Touch this button to fast forward during the playback. During pause, touch this button briefly to advance frame by frame, or touch and hold it to play slowly.

**SECOND PAGE OF DVD VIDEO CONTROLS**

“**Setup**”: The initial setup screen appears. (See page 205.)

“**Search**”: The title search screen appears. (See page 201.)

“**Return**”: Touching this will display the predetermined scene and start playing from there.

“**Audio**”: The audio changing screen appears. (See page 204.)

“**Subtitle**”: The subtitle changing screen appears. (See page 203.)

“**Angle**”: The angle selection screen appears. (See page 205.)

### TOP PAGE OF DVD AUDIO CONTROLS

**“Top menu”**: If you touch this button, the menu screen for DVD audio appears. (For operation, refer to the DVD audio disc manual that is provided separately.)

**“Audio”**: The audio changing screen appears. (See page 204.)

: The menu control key appears on the screen. (See page 200.)

: Touch this button to pause the disc.

: Touching this will fast reverse.

: Touching this will stop the disc.

: Touching this will resume normal play after stop or pause.

: Touch this button to fast forward during the playback. During pause, touch this button briefly to advance frame by frame, or touch and hold it to play slowly.

### SECOND PAGE OF DVD AUDIO CONTROLS

**“Setup”**: The initial setup screen appears. (See page 205.)

**“Select number”**: The track or number search screen appears. (See page 201.)

**“Search”**: The group search screen appears. (See page 202.)

**“Return”**: Touching this will display the pre-determined scene and start playing from there.

**“Prev. page”**: Touch this button to reverse the still pictures. (See page 203.)

**“Next page”**: Touch this button to forward the still pictures. (See page 203.)

**“Subtitle”**: The subtitle changing screen appears. (See page 203.)

**“Angle”**: The angle selection screen appears. (See page 205.)

### ● Selecting a menu item



**Enter the menu item using ▲, ►, ▼ and ◀ buttons and touch “Enter”.**

The changer starts playing video for that menu item. (For details, see the manual that comes with the DVD video disc provided separately.)

Each time you touch **“Move buttons”**, the controls on the screen move upward and downward.

When you touch **“<<Off”**, the controls will disappear. To display them again, touch **“>>On”**.

When you touch , the previous screen returns.

- **Searching by title**



DVD video only —

**Enter the title number and touch “Enter”.**

The player starts playing video for that title number.

When you push the “^” or “v” button of “SEEK-TRACK”, you can select a chapter.

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

When you touch , the previous screen returns.

- **Searching by track**



DVD audio only —

**Enter the track numbers on the searching track screen and touch “Enter”.**

The changer starts playing video for that title number.

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

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

Touch , and the previous screen returns.

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● Searching by group



DVD audio only —

**Enter the group number and touch “Enter”.**

The selected group number will appear on the screen.

The changer starts playing the disc from the entered group number.

When you push the “^” or “v” button of “SEEK TRACK”, you can select a track.

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

When you touch , the previous screen returns.

● Selecting the bonus group



DVD audio only —

**Enter the bonus group number on the searching group screen and touch “Enter”.**

The “Enter key code” screen will appear. To enter the number of the group you want to play, push the group number.

If you enter the wrong number, touch ◀ to delete the number.

**Touch “Enter” on the screen.**

The changer starts playing the disc from the selected bonus group number.

- **Changing the still picture**



DVD audio only —

Touch “Prev. page” or “Next page” on the screen to forward or reverse the still pictures.

- **Changing the subtitle language**



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

To turn off the subtitle, touch “Hide”.

When you touch , the previous screen returns.

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- Changing the audio language



DVD video only —

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

When you touch , the previous screen returns.

- Changing the audio format



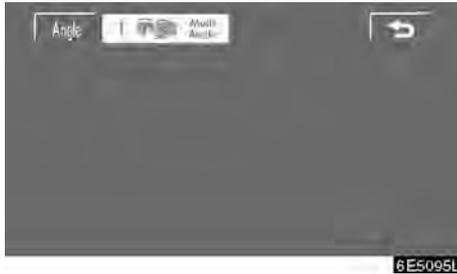
DVD audio only —

**Each time you touch “Audio”, another audio format stored on the disc is selected.**

When you touch , the previous screen returns.

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- **Changing the angle**



The angle can be selected for discs that are multi-angle compatible when the angle mark appears on the screen.

**Each time you touch “Angle”, the angle changes.**

When you touch , the previous screen returns.

- **Setup menu**



The initial setting can be changed.

After you change the initial setting, touch “**Enter**”. The previous picture will be displayed.

When “**Default**” is touched, all menus are initialized.

#### **AUDIO LANGUAGE**

You can change the audio language.

1. Touch “**Audio language**”.
2. Touch the language you want to hear on the “**Select audio language**” screen.

If you cannot find the language you want to hear on this screen, touch “**Other**” and enter a language code. For the entry of language code, see page 207.

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### SUBTITLE LANGUAGE

You can change the subtitle language.

1. Touch **“Subtitle language”**.
2. Touch a language you want to read on the **“Select subtitle language”** screen.

If you cannot find the language you want to read on this screen, touch **“Other”** and enter a language code. For the entry of language code, see page 207.

To return to the “Setup menu” screen, touch



### DVD LANGUAGE

You can change the language on the DVD video menu.

1. Touch **“DVD language”**.
2. Touch the language you want to read on the **“Select DVD language”** screen.

If you cannot find the language you want to read on this screen, touch **“Other”** and enter a language code. For the entry of language code, see page 207.

To return to the “Setup menu” screen, touch



### ANGLE MARK

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

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

### PARENTAL LOCK

The level of viewer restrictions can be changed.

1. Touch **“Parental lock”**.
2. Enter the 4-digit personal code on the **“Enter personal code”** screen.

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

10 touches of **“◀”** will initialize the personal code.

3. Touch a parental level (1 — 8) on the **“Restriction Level”**.

To return to the “Setup menu” screen, touch



● Enter subtitle language code



If you touch “Other” on the “Select audio language” screen, “Select subtitle language” screen or “Select DVD language” screen, you can select the language you want to hear or read by entering a language code.

**1. Enter the 4-digit language code.**

If you enter the wrong numbers, touch “◀” 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	Samoan

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

(g) Operating a video CD

● Playing a video CD

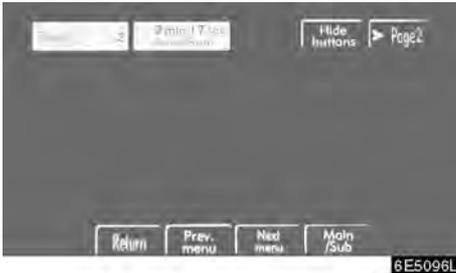


Push the “AUDIO” button to display this screen.

When you touch “WIDE”, the screen mode can be changed.

If you touch “PICTURE” when the vehicle is completely stopped and the parking brake is applied, the video screen returns.

● **Displaying operation buttons**



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

“>Page2”: Use this button to display the operation buttons on the second page.

“<Page1”: Use this button to display the operation buttons on the top page.

“Hide buttons”: Use this button to turn off the operation buttons from the display.

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

● **Description of each button**

**BUTTONS ON TOP PAGE**

“Select number”: The track or number search screen appears. (See page 211.)

“Return”: Touching this will display the pre-determined scene and start playing from there.

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

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

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

**BUTTONS ON SECOND PAGE**

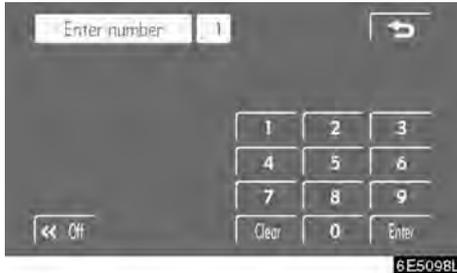
 : Use this button to pause the video screen.

 : Touch this button to fast reverse during playback.

 : Touch this button during pause to resume playing.

 : Touch this button to fast forward during the playback. During pause, touch this button briefly to advance frame by frame, or touch and hold it to play slowly.

- **Searching by track**



**Enter the track numbers on the searching track screen and touch “Enter”.**

The changer starts playing video for that title number.

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

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

Touch , and the previous screen returns.

- (h) **If the changer malfunctions**

If the changer or another unit equipped with the changer malfunction, your audio/video system will display following messages.

**If “No disc” appears on the display:** It indicates that there is no disc in the DVD changer.

**If “Check DISC ×” appears on the display:** It indicates that the disc dirty, damaged, or it was inserted upside down. Clean the disc or insert it correctly. If a disc which is not playable is inserted, “Check DISC ×” will also appear on the screen. For appropriate discs for this player, see “Audio/video system operating hints” on page 215.

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

**If “DVD error” appears on the display:** The following causes are possible.

- There is a trouble inside the system. Eject the disc.
- The inside of the changer unit may be too hot due to the very high ambient temperature. Eject the disc and allow the changer to cool down.

**If “NO MUSIC FILE” appears on the display:** It indicates that the disc has no playable data.

**If the malfunction is not rectified:** Take your vehicle to your dealer.

If an MP3/WMA disc contains CD-DA files, only CD-DA files are played. If an MP3/WMA disc contains files other than CD-DA, only MP3/WMA files are played.

**(i) DVD player and DVD video disc information**

● **DVD video discs**

This DVD player conforms to NTSC color TV formats.

**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 “4”, 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

- **DVD video disc glossary**

**DVD video discs:** Digital Versatile Disc that holds video. 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 stored. 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 stored using PCM and Dolby digital, which enables higher quality of sound. Furthermore, multi-angle and multi-language features will also help you enjoy the more advanced technology of DVD video.

**Viewer restrictions:** This feature limits what can be viewed 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 the DVD player, you cannot play the disc on the DVD player. For region codes, see page 212.

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

**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 stored on 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.

## Audio/video remote controls (Steering switches)



Some parts of the audio/video system can be adjusted with the switches on the steering wheel.

Details of the specific switches, controls, and features are described below.

- 1** Volume control switch
- 2** “^” “∨” switches
- 3** “MODE” switch

### **1** Volume control switch

Push “+” side to increase the volume. The volume continues to increase while the switch is being pressed.

Push “-” side to decrease the volume. The volume continues to decrease while the switch is being pressed.

### **2** “^” “∨” switches (Seek, search, track)

#### **Radio**

To select a preset station:

Quickly push and release the “^” or “∨” switch. Do this again to select the next preset station.

To seek a station:

Push and hold the “^” or “∨” switch until you hear a beep. Do this again to find the next station. If you push either the “^” or “∨” switch in seek mode, the seek mode will cancel.

## Audio / video system operating hints

### DVD changer

Use this button to skip up or down to a different track, file or chapter in either direction.

To select a desired track, file or chapter: Quickly push and release the “^” or “v” switch until the track, file or chapter you want to play is set. If you want to return to the beginning of the current track, file or chapter, push the “v” switch once, quickly.

To select a desired disc: Push and hold the “^” or “v” switch until you hear a beep to change to the next or the previous disc. Repeat this operation until you reach the disc you want to listen to.

Vehicles with rear seat entertainment system

While the DVD player is in operation, the chapter or track can be changed by pushing the “^” or “v” switch.

### 3 “MODE” switch

Each time you push the “MODE” switch, the system changes the audio mode.

The DVD player will be selectable if a rear seat entertainment system is installed in your vehicle.

To turn the audio/video system on, push the “MODE” switch.

To turn the audio/video system off, push and hold the “MODE” switch until you hear a beep.

### NOTICE

*To ensure correct audio/video system operations:*

- *Be careful not to spill beverages over the audio/video system.*
- *Do not put anything other than a cassette tape or appropriate discs into the cassette tape slot or DVD changer slot.*
- *The use of a cellular phone inside or near the vehicle may cause a noise from the speakers of the audio/video 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 TAPE PLAYER AND TAPES

For high performance from your cassette tape 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 tape player.
- Do not use a cassette if it has been damaged or tangled or if its label is peeling off.
- Do not leave a cassette in the player if you are not listening to it, especially if it is hot outside.
- Store cassettes in their cases and out of direct sunlight.
- Avoid using cassettes with a total playing time longer than 100 minutes (50 minutes per side). The tape used in these cassettes is thin and could get stuck or tangled in the cassette tape player.

**MP3/WMA files**

- MP3 (MPEG Audio Layer 3) and WMA (Windows Media Audio) are audio compression standards.
- The MP3/WMA player can play MP3 and WMA files on CD-ROM, CD-R and CD-RW discs.

The unit can play disc recordings compatible with ISO 9660 level 1 and level 2 and with the Romeo and Joliet file system.

- When naming an MP3 or WMA file, add the appropriate file extension (.mp3 or .wma).
- The MP3/WMA player plays back files with .mp3 or .wma file extensions as MP3 or WMA files. To prevent noise and playback errors, use the appropriate file extensions.
- The player can play only the first session using multi-session compatible CDs.
- MP3 files are compatible with the ID3 Tag Ver. 1.0, Ver. 1.1, Ver. 2.2 (front audio system only), and Ver. 2.3 formats. The unit cannot display disc title, track title and artist name in other formats.
- WMA files can contain a WMA tag that is used in the same way as an ID3 tag. WMA tags carry information such as track title, artist name.
- The emphasis function is available only when playing MP3/WMA files recorded at 32, 44.1 and 48 kHz. (The system can play MP3 files with sampling frequencies of 16, 22.05, and 24 kHz. However, the emphasis function is not available for files recorded at these frequencies.)
- The sound quality of MP3/WMA files generally improves with higher bit rates. In order to achieve a reasonable level of sound quality, discs recorded with a bit rate of at least 128 kbps are recommended.

**Playable bit rates**

MP3 files:

MPEG1 LAYER3—64 to 320 kbps

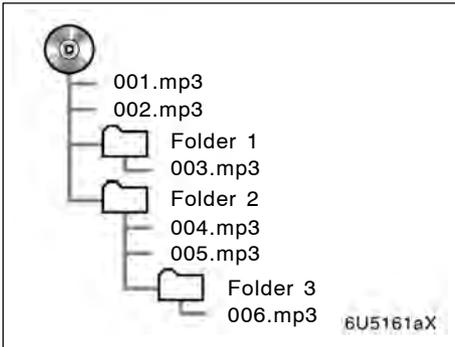
MPEG2 LSF LAYER3—64 to 160 kbps

WMA files:

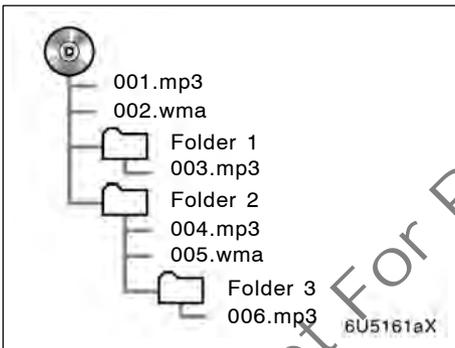
Ver. 7, 8 CBR—48 to 192 kbps

Ver. 9 CBR—48 to 320 kbps

- The MP3/WMA player does not play back MP3/WMA files from discs recorder using packet write data transfer (UDF format). Discs should be recorded using “pre-mastering” software rather than packet-write software.
- The m3u playlists are not compatible with the audio player.
- MP3i (MP3 interactive) and MP3PRO formats are not compatible with the audio player.
- The MP3 player is compatible with VBR (Variable Bit Rate).
- When playing back files recorded as VBR (Variable Bit Rate) files, the play time will not be correctly displayed if fast-forward or reverse operations are used.
- It is not possible to check folders that do not include MP3/WMA files.
- MP3/WMA files in folders up to 8 levels deep can be played. However, the start of playback may be delayed when using discs containing numerous levels of folders. For this reason, we recommend creating discs with no more than two levels of folders.
- It is possible to play up to 192 folders or 255 files on one disc.



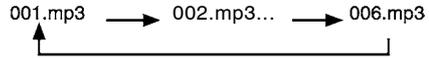
**MP3 player (rear seat entertainment)**



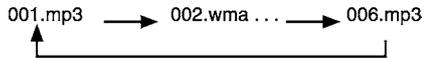
**MP3/WMA player (front audio system)**

- The play order of the compact disc with the structure shown on the left is as follows:

MP3 player (rear seat entertainment system)



MP3/WMA player (front audio system)



- MP3 player (rear seat entertainment system)—It is possible to play up to 253 folders on one disc.
- MP3/WMA player (front audio system)—It is possible to play up to 192 folders or 255 files on one disc.
- The order changes depending on the PC and MP3/WMA encoding software you use.

**CD-R AND CD-RW DISCS**

- CD-R/CD-RW discs that have not been subject to the “finalizing process” (a process that allows discs to be played on a conventional CD player) cannot be played.
- It may not be possible to play CD-R/CD-RW discs recorded on a music CD recorder or a personal computer because of disc characteristics, scratches or dirt on the disc, or dirt, condensation, etc. on the lens of the unit.
- It may not be possible to play discs recorded on a personal computer depending on the application settings and the environment. Record with the correct format. (For details, contact the appropriate application manufacturers of the applications.)
- CD-R/CD-RW discs may be damaged by direct exposure to sunlight, high temperatures or other storage conditions. The unit may be unable to play some damaged discs.
- If you insert a CD-RW disc into the MP3/WMA player, playback will begin more slowly than with a conventional CD or CD-R disc.
- Recordings on CD-R/CD-RW cannot be played using the DDCD (Double Density CD) system.

**CARING FOR YOUR DVD CHANGER AND DISCS**

- Your DVD changer is intended for use with 12 cm (4.7 in.) discs only.
- Extremely high temperature can keep your DVD changer 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 DVD changer skip.
- If moisture gets into your DVD changer, you may not hear any sound even though your DVD changer appears to be working. Remove the discs from the DVD changer and wait until it dries.

**CAUTION**

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

**DVD changer**

Audio CDs	 
	 
DVD video discs	 
DVD audio discs	
Video CDs	 

- Use only discs marked as shown above. The following products may not be playable on your DVD changer.

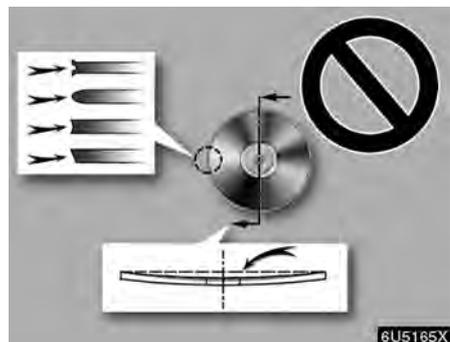
- SACDs
- dts-CDs
- Copy-protected CDs
- DVD-Rs
- DVD+Rs
- DVD-RWs
- DVD+RWs
- DVD-ROMs
- DVD-RAMs



► **Special shaped discs**



► **Transparent / translucent discs**



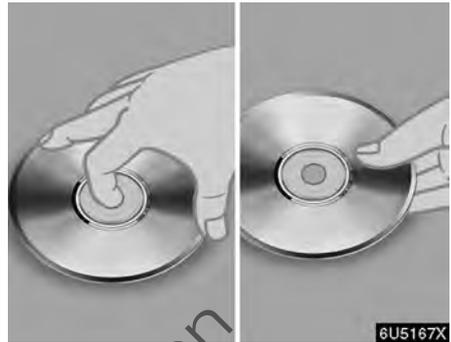
► **Low quality discs**



► **Labeled discs**

**NOTICE**

- ***Do not use special shaped, transparent/translucent, low quality or labeled discs such as those shown in the illustrations. The use of such discs may damage the player or changer, or it may be impossible to eject the disc.***
- ***This system is not designed for use of Dual Disc. Do not use Dual Disc because it may cause damage to the player or changer.***



► **Correct**      ► **Wrong**

- Handle discs carefully, especially when you are inserting them. Hold them on the edge and do not bend them. Avoid getting fingerprints on them, particularly on the shiny side.
- Dirt, scratches, warping, pin holes, or other disc damage could cause the changer 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 changer when you are not using 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.

## TERMS

### Packet write—

This is a general term that describes the process of writing data on-demand to CD-R, etc., in the same way that data is written to floppy or hard discs.

### ID3 Tag—

This is a method of embedding track-related information in an MP3 file. This embedded information can include the track title, the artist's name, the album title, the music genre, the year of production, comments and other data. The contents can be freely edited using software with ID3 tag editing functions. Although the tags are restricted to the number of characters, the information can be viewed when the track is played back.

### WMA Tag—

WMA files can contain a WMA tag that is used in the same way as an ID3 tag. WMA tags carry information such as track title, artist name.

### ISO 9660 format—

This is the international standard for the formatting of CD-ROM folders and files. For the ISO 9660 format, there are two levels of regulations.

#### Level 1:

The file name is in 8.3 format (8 character file names, with a 3 character file extension. File names must be composed of one-byte capital letters and numbers. The “\_” symbol may also be included.)

#### Level 2:

The file name can have up to 31 characters (including the separation mark “.” and file extension). Each folder must contain fewer than 8 hierarchies.

**m3u—**

Playlists created using “WINAMP” software have a playlist file extension (.m3u).

**MP3—**

MP3 is an audio compression standard determined by a working group (MPEG) of the ISO (International Standard Organization). MP3 compresses audio data to about 1/10 the size of that on conventional discs.

**WMA—**

WMA (Windows Media Audio) is an audio compression format developed by Microsoft. It compresses files into a size smaller than that of MP3 files. The decoding formats for WMA files are Ver. 7, 8, and 9.

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# SECTION 7

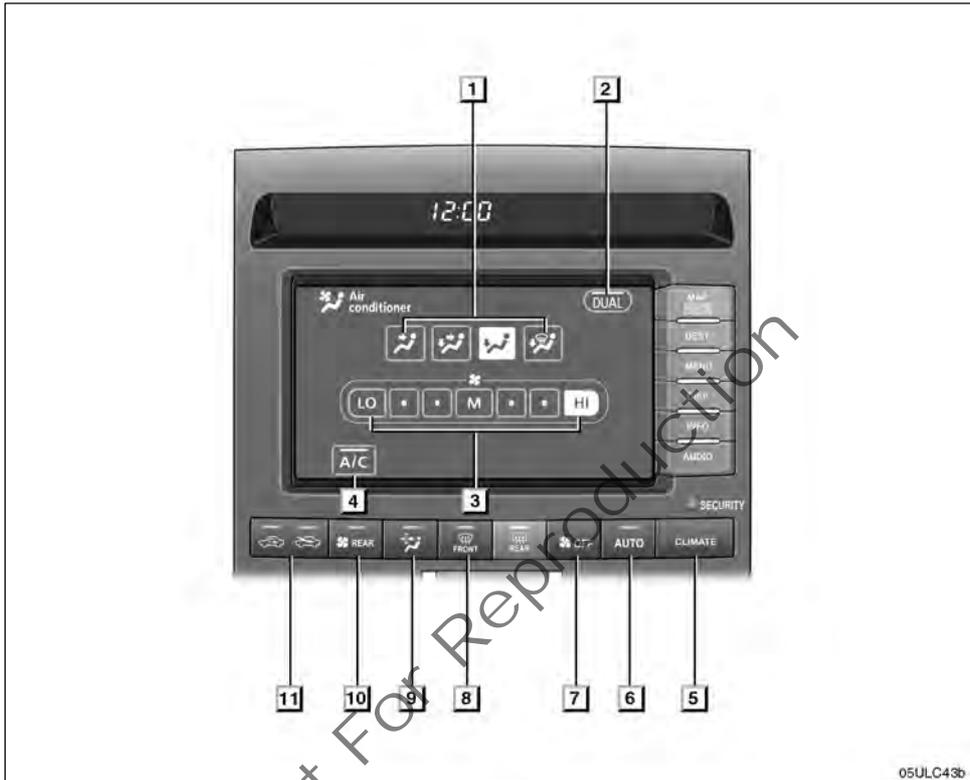
## AIR CONDITIONING

- Automatic air conditioning controls ..... 227

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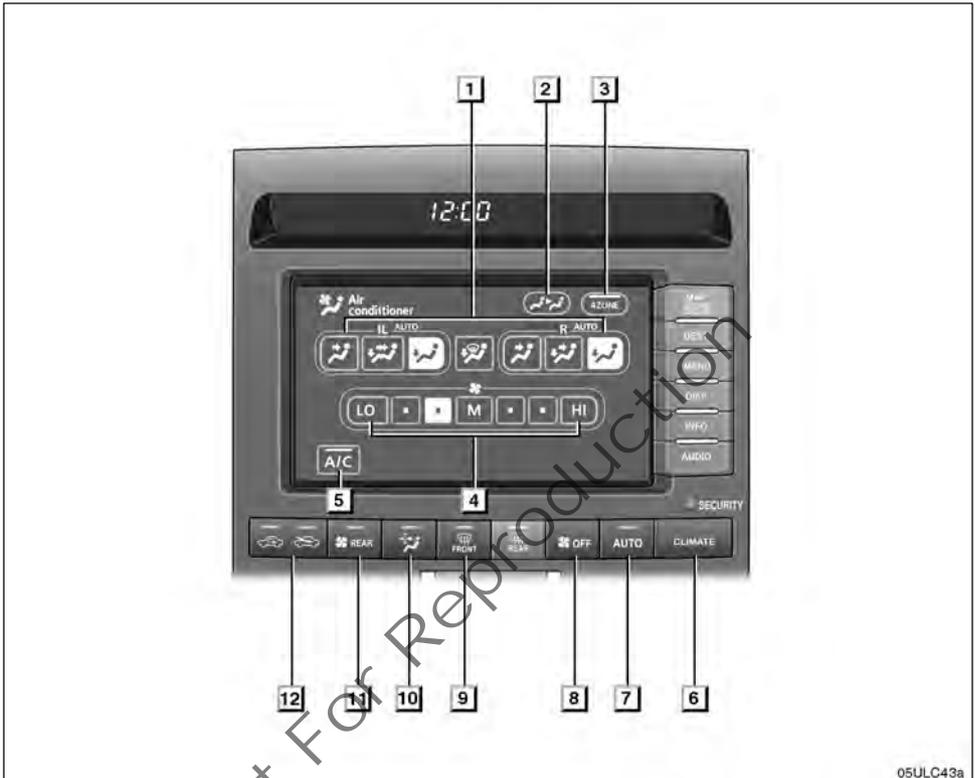
## Automatic air conditioning controls



05ULC43b

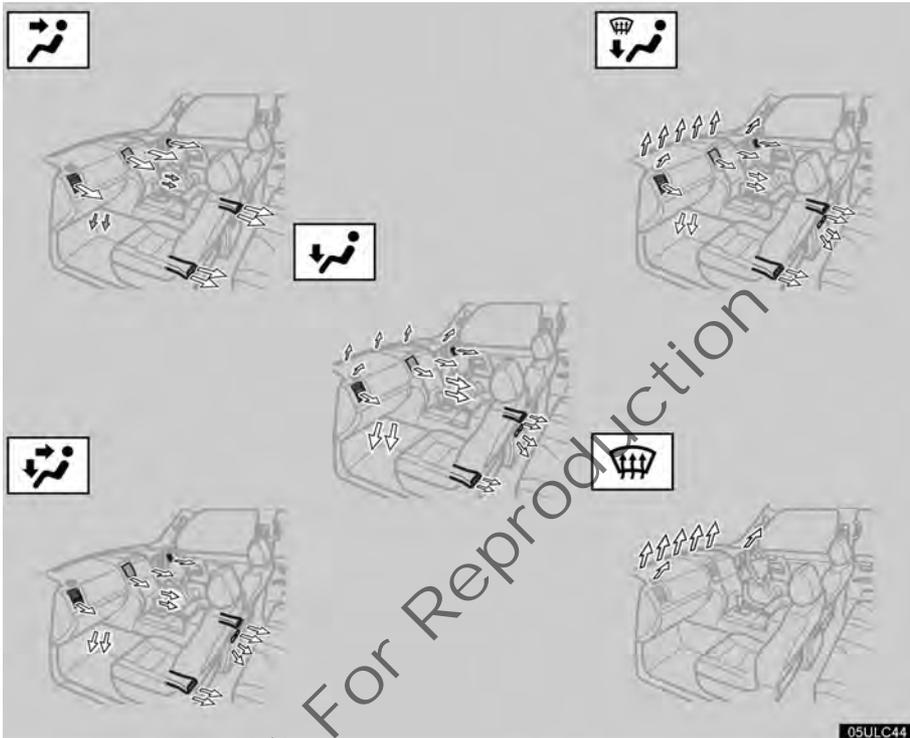
- |   |   |
|---|---|
| <p><b>1</b> Air flow control touch-screen buttons ..... 232</p> <p><b>2</b> “DUAL”<br/>(Temperature setting mode change touch-screen button) ..... 230</p> <p><b>3</b> Fan speed control touch-screen buttons ..... 233</p> <p><b>4</b> “A/C” ..... 234</p> <p><b>5</b> “CLIMATE” button<br/>(Air conditioning operation screen display button) ..... 229</p> | <p><b>6</b> “AUTO” button ..... 229</p> <p><b>7</b> “OFF” button ..... 229</p> <p><b>8</b> Windshield air flow button<br/>..... 235</p> <p><b>9</b> Micro dust pollen filter button<br/>..... 236</p> <p><b>10</b> “REAR” button ..... 234</p> <p><b>11</b> Air intake control button ..... 233</p> |
|---|---|

## Automatic air conditioning controls (with rear air conditioning system)



05ULC43a

- |  |   |
|--|---|
| <p><b>1</b> Air flow control touch-screen buttons ..... 232</p> <p><b>2</b> Rear air conditioning control touch-screen button ..... 234</p> <p><b>3</b> "4ZONE"<br/>(Temperature setting mode change touch-screen button) ..... 230</p> <p><b>4</b> Fan speed control touch-screen buttons ..... 233</p> <p><b>5</b> "A/C" ..... 234</p> | <p><b>6</b> "CLIMATE" button<br/>(Air conditioning operation screen display button) ..... 229</p> <p><b>7</b> "AUTO" button ..... 229</p> <p><b>8</b> "OFF" button ..... 229</p> <p><b>9</b> Windshield air flow button<br/>..... 235</p> <p><b>10</b> Micro dust pollen filter button<br/>..... 236</p> <p><b>11</b> "REAR" button ..... 234</p> <p><b>12</b> Air intake control button .... 233</p> |
|--|---|



► Air flow selection    ► Automatic air flow mode only

**The automatic air conditioning automatically maintains the set temperature.**

In the automatic operation mode, the air conditioning selects the most suitable fan speed, air flow, air intake and on-off the air conditioning according to the temperature.

The ignition switch must be in the “ON” position.

“**CLIMATE**”: Push this button to display touch-screen buttons 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.**

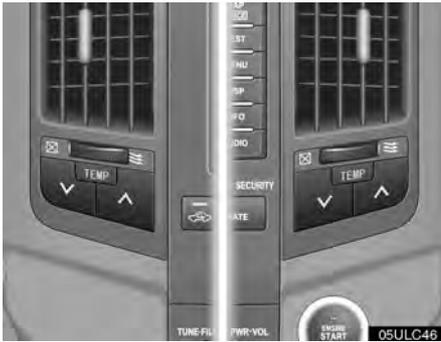
An indicator light will illuminate to show that the automatic operation mode has been selected.

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. When you push the “**AUTO**” button with the air intake mode at OUTSIDE AIR, internal circulation may be applied for maximum cooling. The operation status is shown by each indicator and display.

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

Push the “**OFF**” button to turn the air conditioning system off.

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**2. Use the “TEMP∨” or “TEMP∧” button to set the desired vehicle interior temperature.**

The “TEMP∨” or “TEMP∧” selector button is used to set the desired interior temperature. The interior temperature will be controlled on the driver and passenger side room zones simultaneously or individually.

To increase the interior temperature, push the “TEMP∧” button, to decrease it, push the “TEMP∨” button.

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

“LO” appears when you hold it until maximum cooling (decrease), and “HI” appears when you hold it until maximum warming (increase).

**“TEMP∨” or “TEMP∧” button for the driver’s side** — Changes the temperature on the driver and passenger sides simultaneously or the driver side only.

**“TEMP∨” or “TEMP∧” button for the passenger’s side** — Changes the temperature settings separate from the driver side.

**“DUAL” —**

This button is used to set the temperatures independently for the driver’s seat and front passenger seat.

Touching the button changes from the independent mode to the linked mode.

**Independent mode:** Temperatures can be set independently for the driver’s seat and front passenger’s seat. The indicator will come on to show that the independent mode has been selected.

**Linked mode:** The same temperature is set for the driver’s seat and front passenger’s seat. The indicator will come off to show that the simultaneous temperature setting mode has been selected.

When the temperature for the front passenger’s seat is changed in linked mode, the mode is changed automatically to independent mode.



**“4ZONE (with rear air conditioning system)” —**

This button is used to set the temperatures independently for the driver’s, front passenger’s and rear seats.

Touching the button changes from the independent mode to the linked mode.

**Independent mode:** Temperatures can be set independently for the driver’s, front passenger’s and rear seats. The indicator will come on to show that the independent mode has been selected.

**Linked mode:** The same temperature is set for the driver’s seat and front passenger’s seat. The indicator will come off to show that the simultaneous temperature setting mode has been selected.

When the temperature for the front passenger’s seat is changed in linked mode, the mode is changed automatically to independent mode.



- ➡ Driver side setting air flow
- ➡ Passenger side setting air flow
- ⇨ Mixed air flow

**SETTING OPERATION — manual control**

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

**If manual air flow selection is desired —**



(with rear air conditioning system)

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

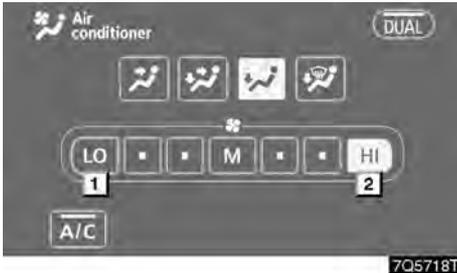
- 1 **Panel** — Air flows mainly from the instrument panel vents and rear vents.
- 2 **Bi-level** — Air flows from both the floor vents, instrument panel vents and rear vents.

When you set the temperature selector setting at about the middle in automatic operation, warm air flows out of the floor vents and relatively low-temperature air flows out of the instrument panel vents and rear vents.

- 3 **Floor** — Air flows mainly from the floor vents and rear vents.
- 4 **Floor/windshield** — Air flows mainly from the floor vents, windshield vents and rear vents.

The selected mode is highlighted.

If manual fan speed control is desired—



(with rear air conditioning system)

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

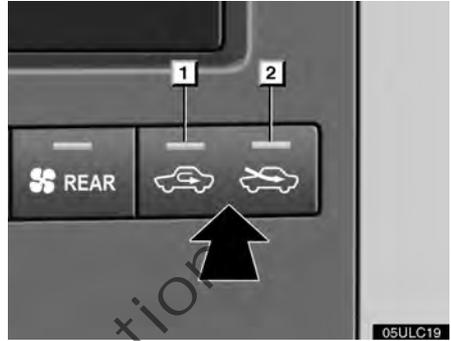
The fan speed can be set to your desired speed by touching the appropriate fan speed control button.

The higher the fan speed is, the more air is delivered.

Pushing the “OFF” button turns the fan off. To remove the exterior windshield frost and interior windshield fog, use the high speed setting.

The selected mode is highlighted.

If manual switching of air intake is desired—



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

- 1 RECIRCULATED AIR mode** — If quick circulation of cooled air is desired, select this mode.
- 2 OUTSIDE AIR mode** — The system will take fresh outside air into the vehicle.

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

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 5°C (41°F).
- When the air conditioning compressor malfunctions.
- When the air conditioning cooler refrigerant decreases.

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



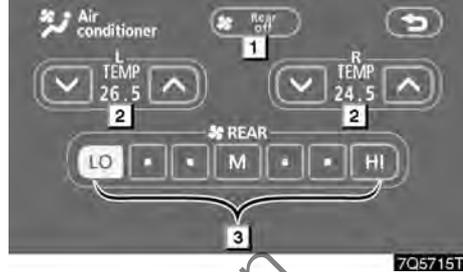
(with rear air conditioning system)

Touch **“A/C”** to turn the air conditioning on and touch it again to turn the air conditioning off.

The air conditioning does not work if the outside temperature is lowered down to around 0°C (32°F).

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

**(b) Rear air conditioning controls (if equipped)**



- 1 **“Rear OFF” button**
- 2 **Temperature control**
- 3 **Fan speed control**

The temperature for the right–hand and left–hand rear seats can be adjusted separately. Touch “^” or “v” to increase or decrease the temperature.

The fan speed can be set to your desired speed by touching the appropriate fan speed control button.

The higher the fan speed is, the more air is delivered.

Touch “Rear OFF” to turn the fan off.

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

The selected mode is highlighted.

**(c) Windshield defogging and defrosting**  
**To remove interior fog on the windshield**



Push the windshield air flow 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 windshield air flow button.
3. Touch “HI” of the air flow control to obtain a maximum air flow.
4. Leave the air conditioning on–off control off.

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

Touch “A/C” for dehumidified heating or cooling. This setting clears the front view more quickly.

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

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<b>CAUTION</b>
<p><b>Do not use the windshield air flow 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></p>

**(d) Micro dust and pollen filter**

Outside air mode switches to recirculated air mode. Pollen is removed from air and the air flows to the upper part of the body.

Usually the system will turn off automatically approximately 3 minutes later.

To stop the operation, press the button again.

**(e) Center vents and side vents**



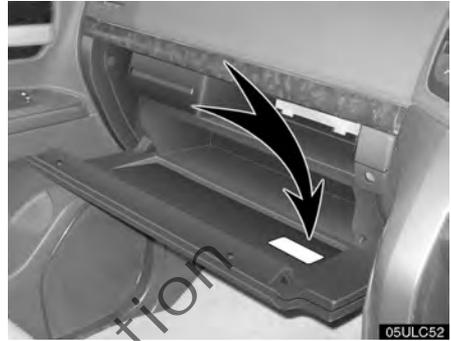
► **Side vents**



► **Rear vents**

If air flow control is not satisfactory, check the center vents and side vents. The center vents and side vents may be opened or closed as shown.

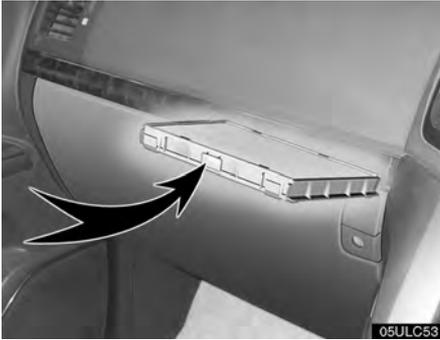
(f) Checking and replacing the air conditioning filter



The air conditioning filter information label is placed in the glove box as shown and indicates that a filter has been installed.

The air conditioning filter prevents dust from entering the vehicle through the air conditioning vent.

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**The air conditioning filter is behind the glove box.**

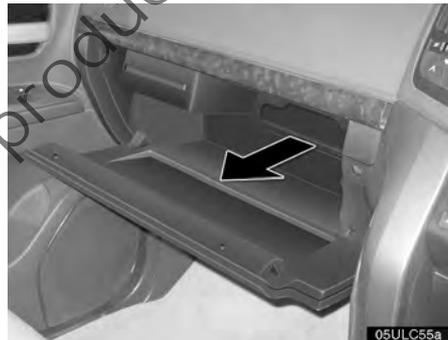
The air conditioning filter may clog after long use. The filter may need to be replaced if the air flow of the air conditioner and heater experiences extreme reductions in operating efficiency, or if the windows become to fog up easily.

To maintain the air conditioning efficiency, inspect and replace the air conditioning filter according to the maintenance schedule. In dusty areas or areas with heavy traffic flow, such as inner city or desert areas, early replacement may be required. (For scheduled maintenance information, please refer to the "Warranty and Service Booklet".)

Before replacing the air conditioning filter, turn the "ENGINE START STOP" switch IGNITION ON mode and switch to recirculated air mode, then turn the "ENGINE START STOP" switch off.



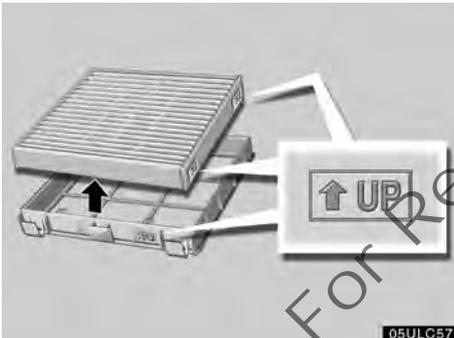
**1. Open the glove box and remove the partition.**



**2. Remove the filter cover.**



3. Take out the filter case.



4. Remove the filter from the filter case.

5. Inspect the filter on the surface.

If it is dirty, it should be replaced.

**When installing the filter in the filter case, keep the arrow pointing up.**

### **INFORMATION**

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

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# SECTION 8

## TOYOTA PARKING ASSIST MONITOR

- Toyota parking assist monitor ..... 242

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## Toyota parking assist monitor—

The parking assist monitor assists the driver by displaying an image of the view behind the vehicle while backing up. The image is displayed in reverse on the screen. This allows the image to appear in the same manner as that of the rear view mirror.

The parking assist monitor is a supplemental device intended to assist back up. When backing up, be sure to check behind and all around the vehicle visually. When backing up while in parallel parking assist mode, be especially careful to avoid hitting obstacles such as parked vehicles.



### CAUTION

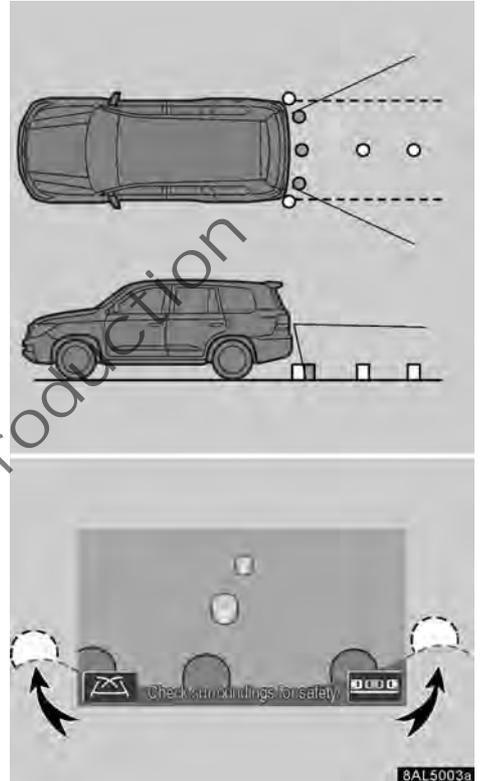
- Never depend on the parking assist monitor entirely when backing up. Always make sure your intended path is clear.  
Use caution, just as you would when backing up any vehicle.
- Never back up while looking only at the screen. The image on the screen is different from actual conditions. Depicted distances between objects and flat surfaces will differ from the actual distances. If you back up while looking only at the screen, you may hit a vehicle, a person or an object. When backing up, be sure to check behind and all around the vehicle visually and with mirrors before proceeding.
- Do not use the system when the trunk is not completely closed.
- If the back of the vehicle is hit, the position and mounting angle of the camera may change. Be sure to have the camera's position and mounting angle checked at your Toyota dealer.
- As the camera has a water proof construction, do not detach, disassemble or modify it. This may cause incorrect operation.
- If the temperature changes rapidly, such as when hot water is poured on the vehicle in cold weather, the system may not operate normally.

- If the camera lens becomes dirty, it cannot transmit a clear image. If water droplets, snow, or mud adhere to the lens, rinse with water and wipe with a soft cloth. If the lens is extremely dirty, wash it with a mild cleanser and rinse.
- Do not allow organic solvent, car wax, window cleaner or glass coat to adhere to the camera. If this happens, wipe it off as soon as possible.
- Use your own eyes to confirm the vehicle's surroundings, as the displayed image may become faint or dark, and moving images will be distorted, or not entirely visible when the outside temperature is low. When backing up, be sure to check behind and all around the vehicle visually and with mirror before proceeding.
- Do not use the system in the following cases:
  - On icy or slick road surfaces, or in snow.
  - When using tyre chains or emergency tyres.
  - On roads that are not flat or straight, such as curves or slopes.

**NOTICE**

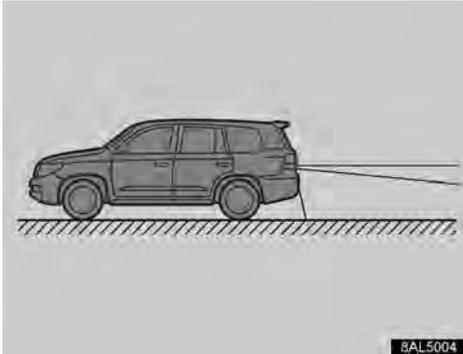
*When replacing the tyres, please consult your Toyota dealer. If you replace the tyres, the position of the guide lines displayed on the screen may change.*

- Area displayed on screen  
Image is displayed approximately level on screen.



- ▶ Corners of bumper

The area detected by the camera is limited. The camera does not detect objects close to either corner of the bumper or under the bumper.



The area displayed on the screen may vary according to vehicle status or road conditions.

- The parking assist system camera



The parking assist system camera is located on the back door as shown in the illustration.

The parking assist system camera uses a special lens. The perceived distance from images that appear on the screen differs from the actual distance.

In the following cases, it may become difficult to see the images on the screen, but this is not a malfunction.

- In the dark (for example, at night)
- When the temperature near the lens is high or low
- When water droplets are adhering to the camera, or when humidity is high (for example, when it rains)
- When foreign matter (for example, mud) is adhering to the camera
- When the camera has scratches or dirt on it
- When the sun or the beam of headlights is shining directly into the camera lens

## —Maneuvering when parking



If a bright light (for example, sunlight reflected off the vehicle body) is picked up by the camera, the smear effect\*, peculiar to the CCD camera, may occur.

\*: Smear effect—A phenomenon that occurs when a bright light (for example, sunlight reflected off the vehicle body) is picked up by the camera; when transmitted by the camera, the light source appears to have a vertical streak above and below it.

Instructions given are only examples. When and how much to turn the steering wheel will vary according to traffic conditions, road surface conditions, vehicle condition, etc. when parking.

It is necessary to be fully aware of this before using the parking assist system. Also, when parking, be sure to check that the parking space will accommodate your vehicle before maneuvering into it.

### CAUTION

Depending on the circumstances of the vehicle (number of passengers, amount of luggage, etc.), the position of the guide lines displayed on the screen may change. Be sure to check visually behind and all around the vehicle before proceeding.

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(a) To activate the parking assist monitor



(b) The modes of the parking assist system

The parking assist system has the following four modes. Use each mode according to need.

To activate the parking assist monitor, place the transmission in “R” when the “ENGINE START STOP” switch is in IGNITION ON mode.

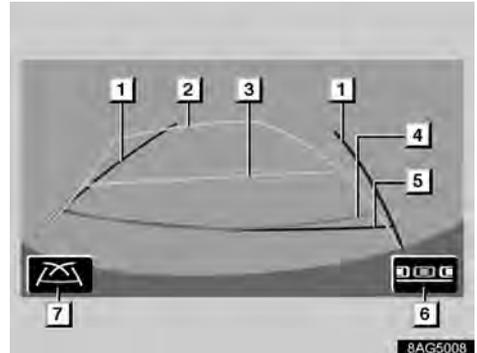
- If you move the transmission out of “R”, the screen returns to the previous screen. Operating another function of the navigation system will display another screen.
- Even if the transmission is in “R”, if you push any of the mode buttons around the display, such as “MAP/VOICE” or “INFO”, the screen will switch to that mode.

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● **Manual mode**

The guide lines are displayed on the screen.

**ESTIMATED COURSE LINE DISPLAY MODE**

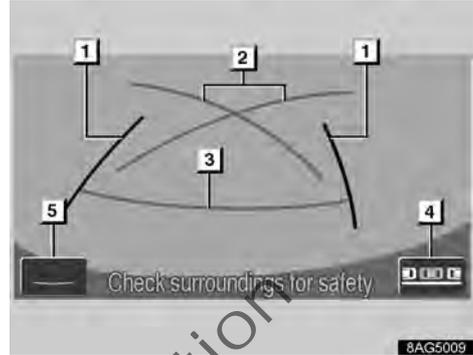


- 1 Vehicle width extension guide lines**  
 These lines indicate the estimated vehicle width extension. When the steering wheel is straight (the vehicle is straight), the vehicle width extension guide lines overlap with the estimated course lines.
- 2 Estimated course lines**  
 These lines indicate the estimated course in which the vehicle moves backward. The lines move in sync with the steering wheel.
- 3 Distance guide line (yellow)**  
 The line moves, together with the estimated course lines, in sync with the steering wheel. The centre of the line indicates a position on the ground about 1 m behind the rear bumper of the vehicle.  
 If the steering wheel is not straight, a discrepancy may occur.
- 4 Distance guide line (red)**  
 The line moves, together with the estimated course lines, in sync with the steering wheel. The centre of the line indicates a position on the ground about 0.5 m behind the rear bumper of the vehicle.  
 If the steering wheel is not straight, a discrepancy may occur.

- 5 **Distance guide line (green)**  
The line indicates a position on the ground about 0.5 m behind the rear bumper of the vehicle.
- 6 **Parallel parking assist mode touch-screen button**  
Touching this button turns parallel parking assist mode on.
- 7 **Guide line display mode touch-screen button**  
Touching this button turns guide line display mode on.

See “—Manual mode” on page 252 for details.

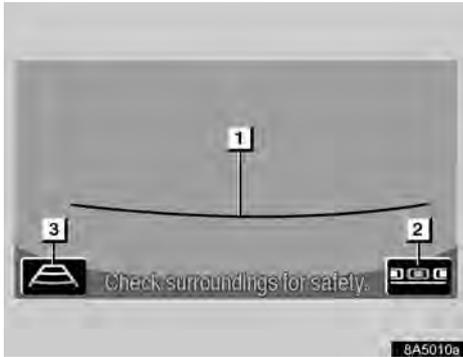
**GUIDE LINE DISPLAY MODE**



- 1 **Vehicle width extension guide lines**  
These lines indicate the estimated vehicle width extension.
- 2 **Parking assist guide lines**  
These lines indicate the points at which you should turn the steering wheel fully and back up at the smallest turning circle.
- 3 **Distance guide line**  
This line indicates a position on the ground about 0.5 m behind on the ground of the rear bumper of your vehicle.
- 4 **Parallel parking assist mode touch-screen button**  
Touching this button turns parallel parking assist mode on.
- 5 **Course line deletion mode touch-screen button**  
Touching this button turns course line deletion mode on.

See “—Manual mode” on page 252 for details.

**COURSE LINE DELETION MODE**



- 1 Distance guide line**  
This line indicates a position on the ground about 0.5 m behind on the ground of the rear bumper of your vehicle.
- 2 Parallel parking assist mode touch-screen button**  
Touching this button turns parallel parking assist mode on.
- 3 Estimated course line display mode touch-screen button**  
Touching this button turns estimated course line display mode on.

**PARALLEL PARKING ASSIST MODE**



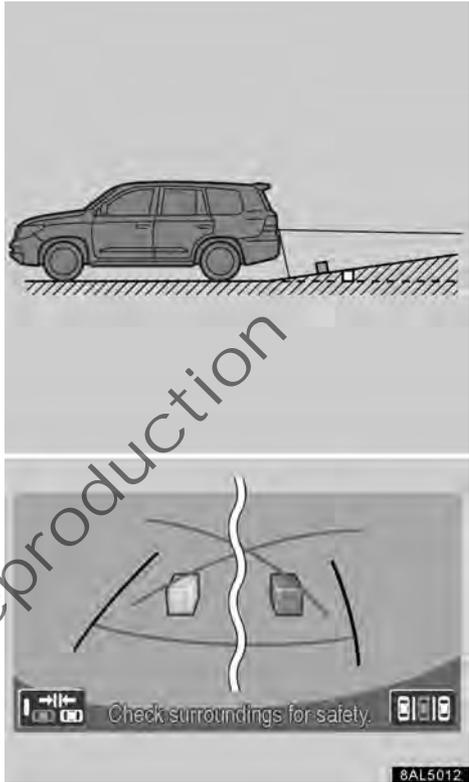
**This mode assists the driver in parallel parking by means of the screen display.**

- 1 Narrow mode on-off touch-screen button**  
Touching this button turns narrow mode on and off.
- 2 Manual mode touch-screen button**  
Touching this button turns manual mode on.

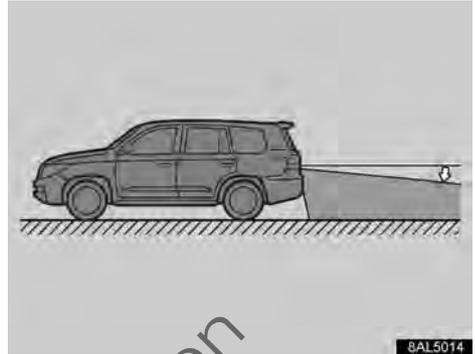
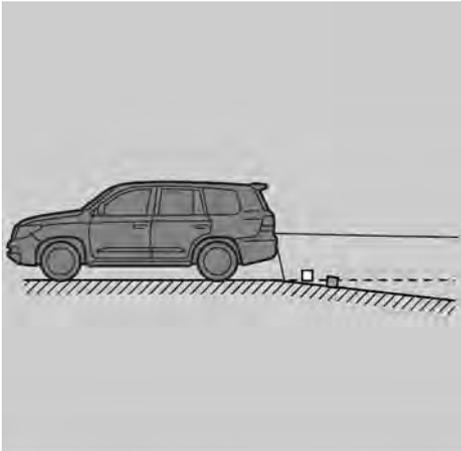
See “—Parallel parking assist mode” on page 259 for details.

## —Driving precautions

In any of the following situations, there is a margin of error between the guide lines on the screen and the actual distance/course on the road.



- When the grade behind the vehicle slopes up sharply, objects appear to be farther away than they actually are.



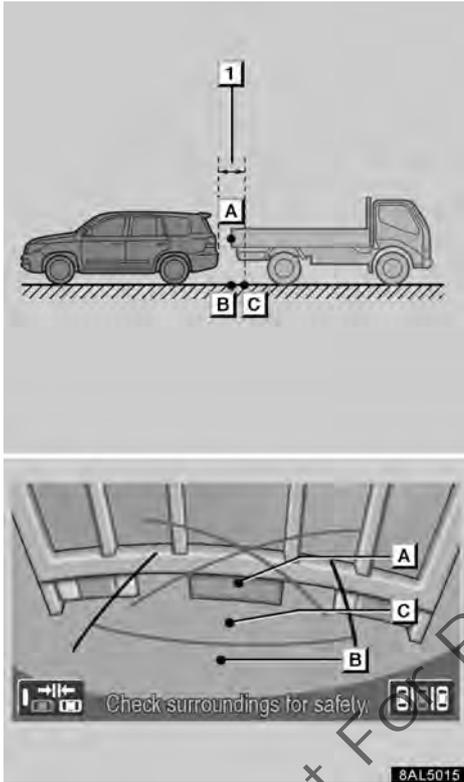
8AL5014



8AL5013

- When the grade behind the vehicle slopes down sharply, objects appear to be closer than they actually are.

- When any part of the vehicle sags due to the number of passengers or the distribution of the load, there is a margin of error between the guide lines on the screen and the actual distance/course on the road.



▶ **1** Approx. 0.5 m

The distance that appears on the screen between three-dimensional objects (such as vehicles) and flat surfaces (such as the road) and the actual distance differ as follows.

In reality,  $A = B < C$  ( $A$  and  $B$  are equally far away;  $C$  is farther than  $A$  and  $B$ ). However, on the screen, the situation appears to be  $B < C < A$ .

On the screen, it appears that a truck is parking about 0.5 m away. However, in reality if you back up to point  $B$ , you will hit the truck.

—Manual mode

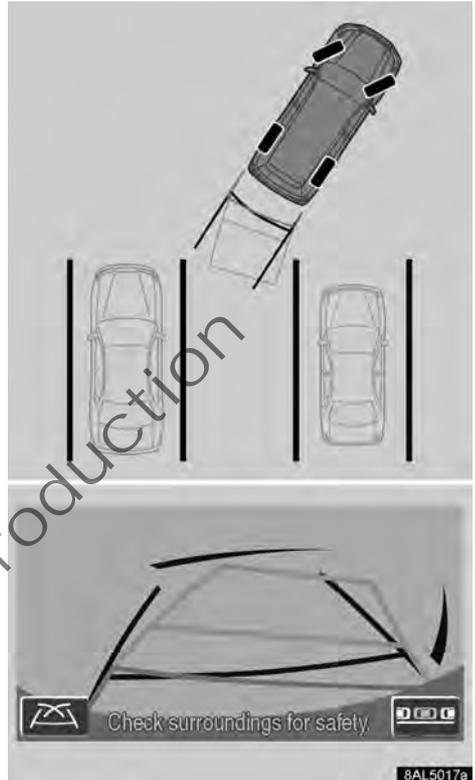
- Example of how to use the system when parking (perpendicular parking)

ESTIMATED COURSE LINE DISPLAY MODE

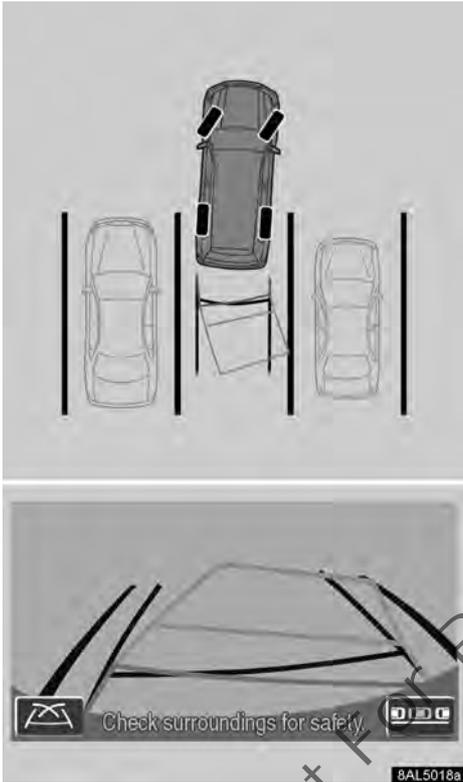


The following example describes the procedure for pulling into a parking space on the left. For pulling into a parking space on the right, substitute right for left and vice versa in all steps.

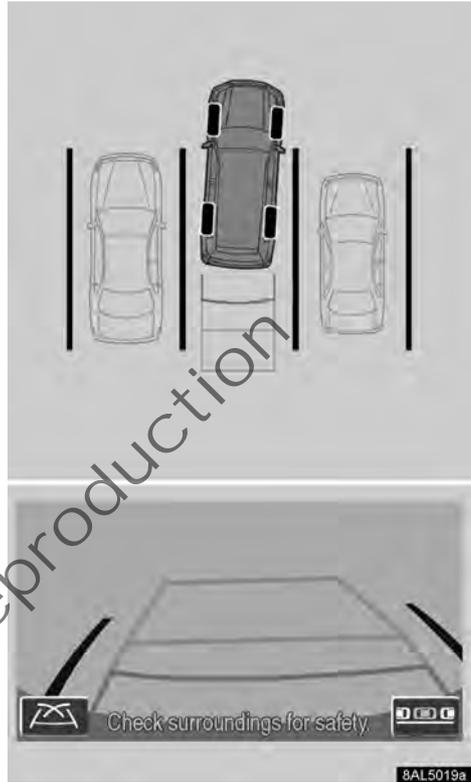
1. Put the transmission in "R". Touch  on the screen, if the system is not in the manual mode. If any other display mode is selected, switch to estimated course line display mode.
2. While referring to the screen and mirrors, back into the parking space.



3. Turn the steering wheel so that the estimated course lines are within the parking space, and back up carefully.

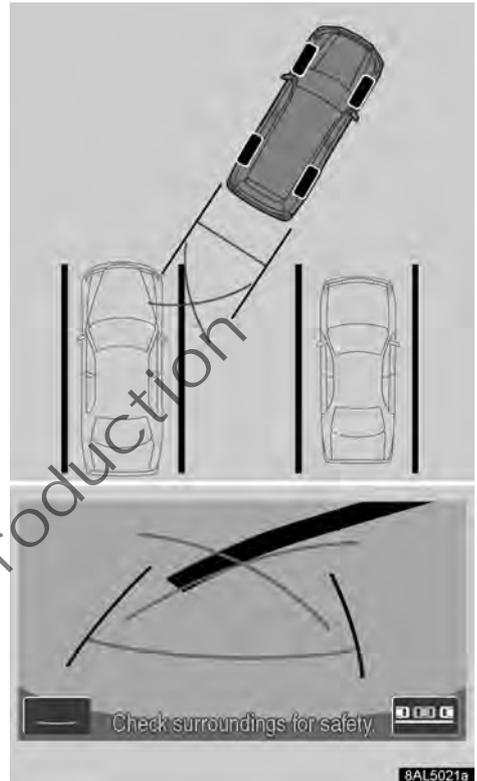
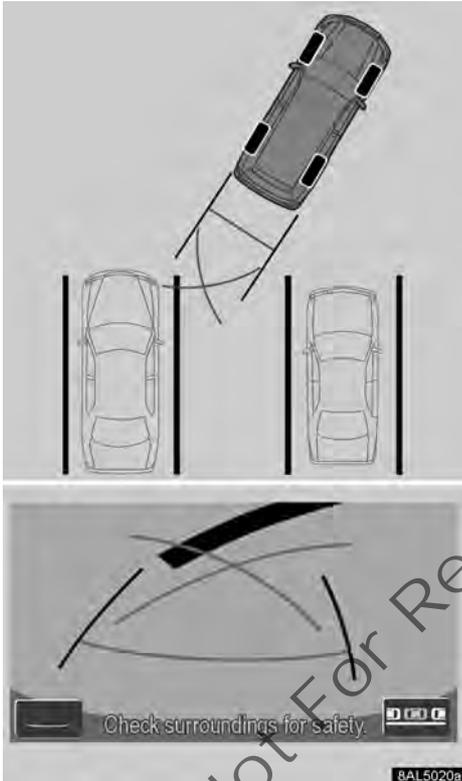


4. When the rear of the vehicle is within the parking space, turn the steering wheel in order to equalize the left and right intervals between the vehicle width extension lines and the parking space side lines.



5. When the vehicle width extension lines and the parking space side lines are parallel, straighten the steering wheel (straight backward position) and then carefully back up until the entire vehicle is within the parking space. Even if the distance guide line and the parking space rear edge appear to be parallel on the screen, in reality they may not be parallel.

GUIDE LINE DISPLAY MODE

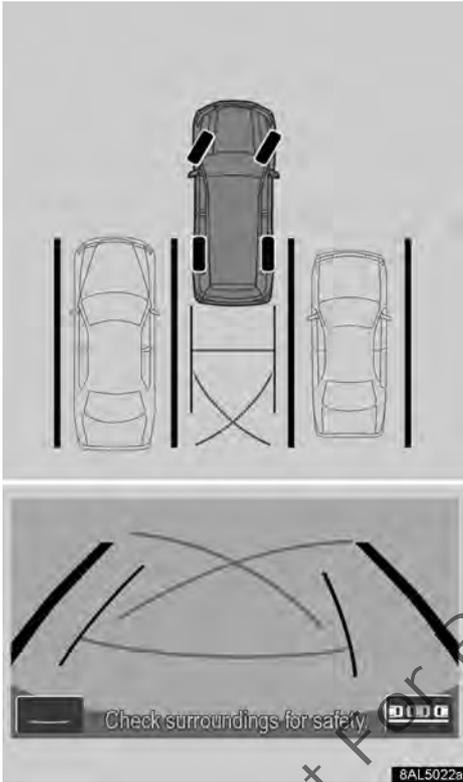


The following example describes the procedure for pulling into a parking space on the left. For pulling into a parking space on the right, substitute right for left and vice versa in all steps.

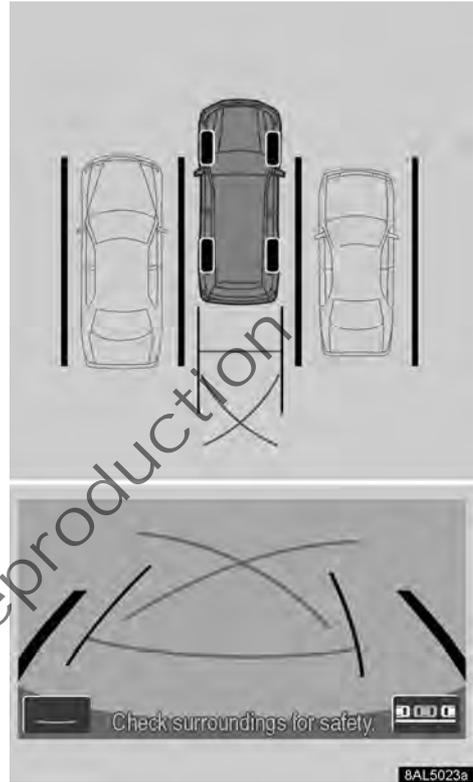
1. Put the transmission in "R". Touch  on the screen, if the system is not in the manual mode. If any other display mode is selected, switch to guide line display mode.
2. While referring to the screen and mirrors, back into the parking space.

3. Back up until the parking assist guidelines meet the left edge of the parking space. Stop the vehicle, turn the steering wheel all the way to the right, and back up the vehicle to park.

The point at which turn the steering wheel depends on the width of the parking space.

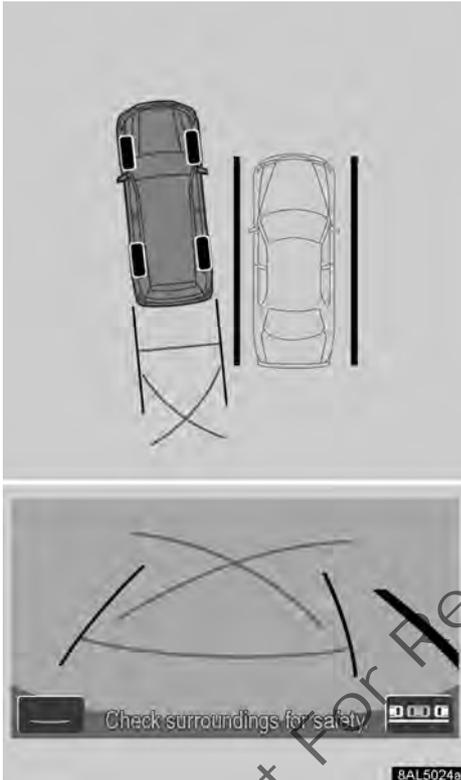


4. When the vehicle is in the parking space, turn the steering wheel so that the vehicle width extension guide lines and the clearance to the left and right of the parking space are about the same near the vehicle. Back up slowly.



5. Turn the steering wheel so that the vehicle width extension guide lines are parallel with the parking space lines. When the lines are parallel, straighten the steering wheel and back up slowly.

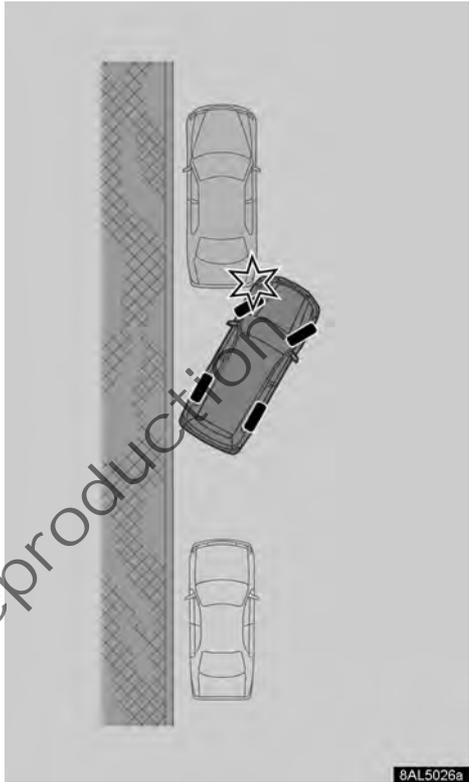
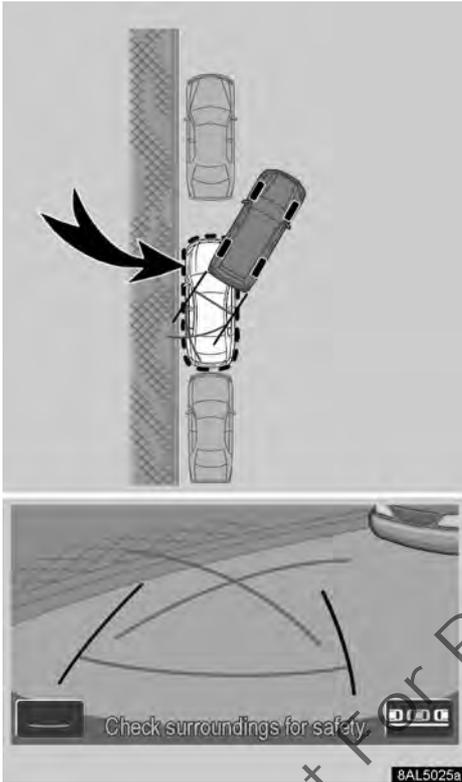
Even if the distance guide line and the parking space rear edge appear to be parallel on the screen, in reality they may not be parallel.



- **Example of how to use the system when parallel parking**

The following example describes the procedure for pulling into a parking space on the right. For pulling into a parking space on the left, substitute left for right and vice versa in all steps.

When there is only one line dividing the spaces in a parking lot, even if the vehicle width extension guide lines and the parking space right side (left side) appear to be parallel on the screen, in reality they may not be parallel.



► **Desired parking location**

1. Put the transmission in "R".
2. Back up until the parking assist guide lines meet the left edge of the desired parking location. Turn the steering wheel all the way to the left and back up slowly.
3. When the vehicle is parallel with the shoulder of the road, straighten the steering wheel and back up slowly.

**NOTICE**

*When backing up, do not forget to pay attention also to the front and back up slowly, so as not to hit any vehicle parked in front with the front corner of your vehicle.*

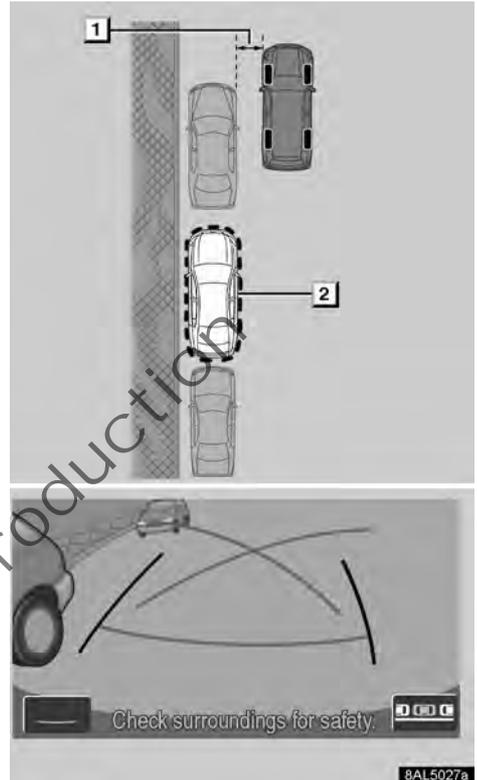
## —Parallel parking assist mode

Parallel parking assist mode assists the driver in parallel parking by means of screen display.

### CAUTION

- Be sure to turn the steering wheel only when the vehicle is stopped.
- Do not use the system in the following cases:
  - On icy or slick road surfaces, or in snow.
  - When using tyre chains or emergency tyres.
  - On roads that are not flat or straight, such as curves or slopes.

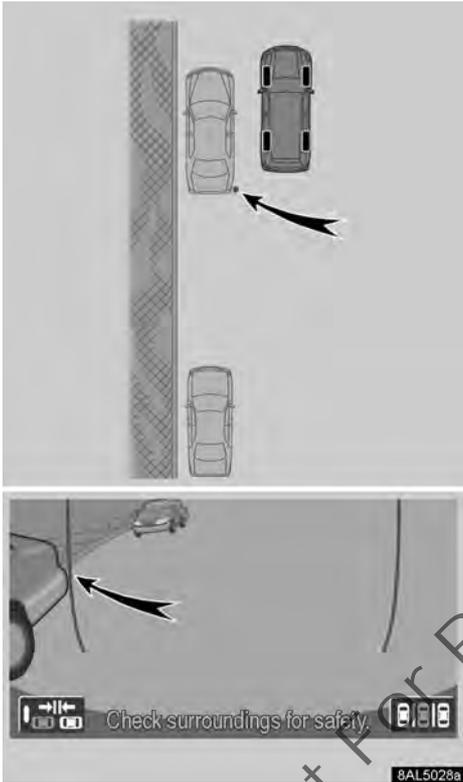
The illustrations here describe the procedure for pulling into a parking space on the right. For pulling into a parking space on the left, substitute left for right and vice versa in all steps.



- ▶ **1** Approx. 1 m
- 2** Desired parking location

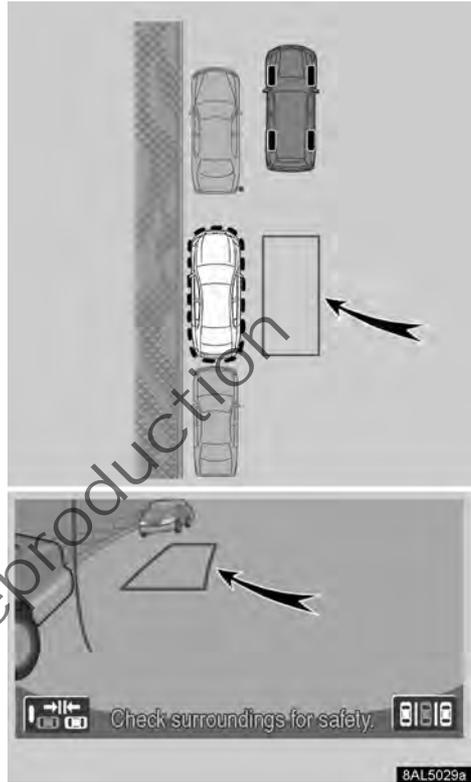
1. Position your vehicle parallel to the road or shoulder about 1 m away from a parked vehicle. Then position your vehicle about one-half of a car length ahead of the vehicle. Put the transmission in "R". Touch  on the screen, if the system is not in the parallel parking assist mode.

Make sure the monitor displays the part behind the rear tyres of the parked vehicle. If not, move the vehicle forward to the above appropriate position and perform the operation again.



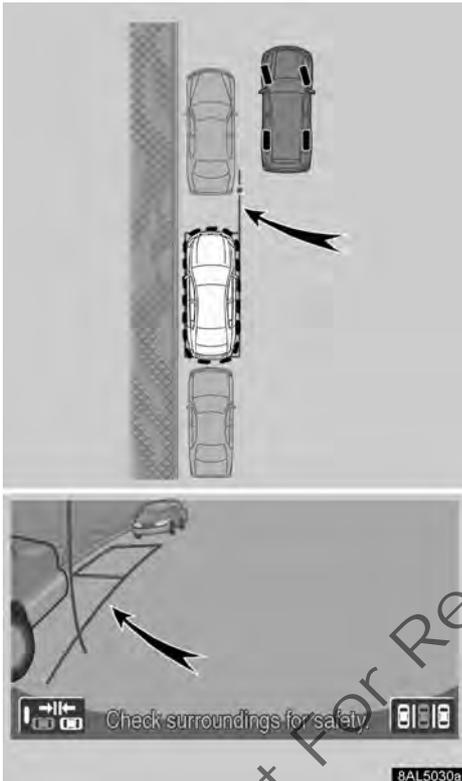
► **Green vertical line**

2. The green vertical lines will appear on the screen. Back up until the point at which the green vertical line just overlaps the rear end of the parked vehicle. Then stop the vehicle.



► **Green outline**

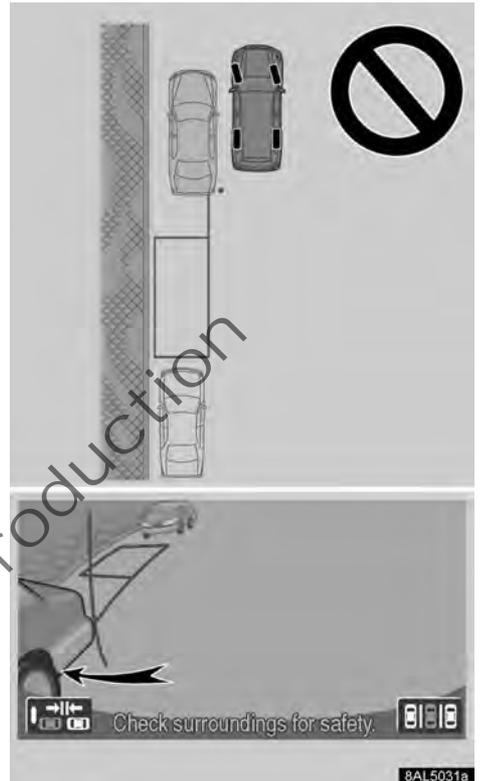
3. The green outline will appear on the screen.



► **Extended green outline**

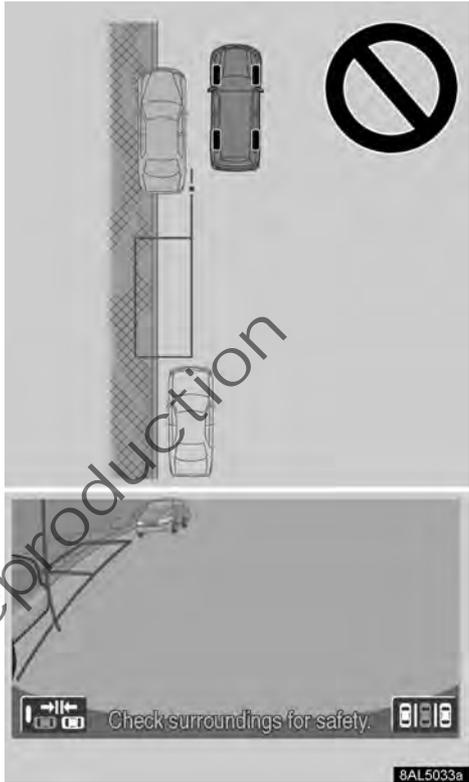
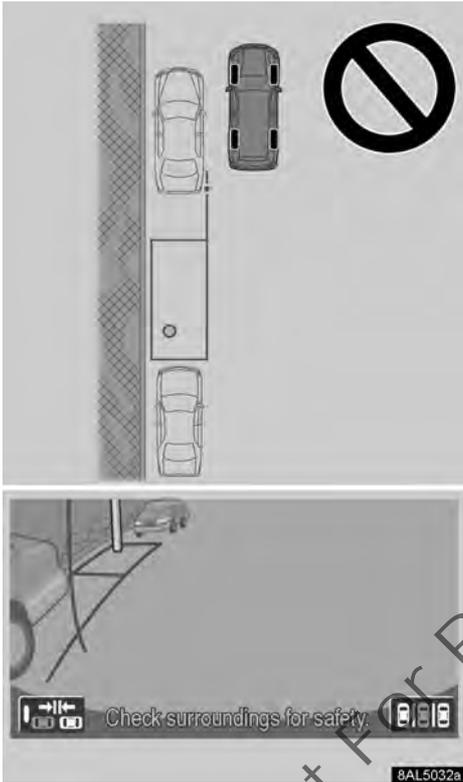
4. While the vehicle is stopped, turn the steering wheel. As you turn the steering wheel, the green outline will move to the location that your vehicle will move to and an extended green line will appear. Place the extended green line by the rear tyre of the parked vehicle.

**Be sure to turn the steering wheel only when the vehicle is stopped.**



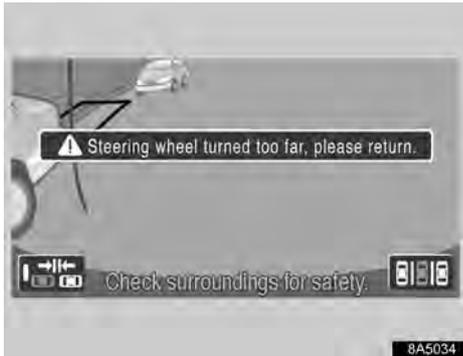
**NOTICE**

- ***When positioning the green outline over the parking space, be sure that the extended green line does not cross the tyre of the vehicle parked in front of the empty space. In a case in which positioning the green outline over the desired parking location results in crossing over the vehicle parked in front, position it over an area so that it doesn't cross over.***



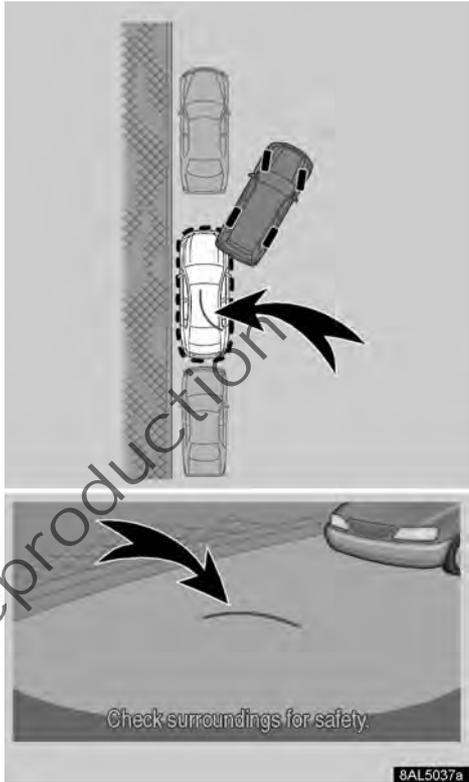
● *Be sure to check that there are no obstacles within the green outline. If there are any obstacles within the green outline, parallel parking assist mode cannot be used.*

● *When the vehicle in front of the empty space is parked on the shoulder or is not parallel with the road, parallel parking assist mode cannot be used.*



- If the outline becomes red and the message is displayed as shown, the assist system will not function. Return the steering wheel to its original position.
- Even if the outline is positioned over a normal parking space, the message may be displayed as shown. In this case, your vehicle may be too far from the shoulder. Check that the distance between your vehicle and the vehicle parked in front of the empty space is about 1 m.

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**NOTICE**

*When backing up, be careful not to hit any obstacles with the front corner of your vehicle. Back up the vehicle slowly.*

► **Curved green line**

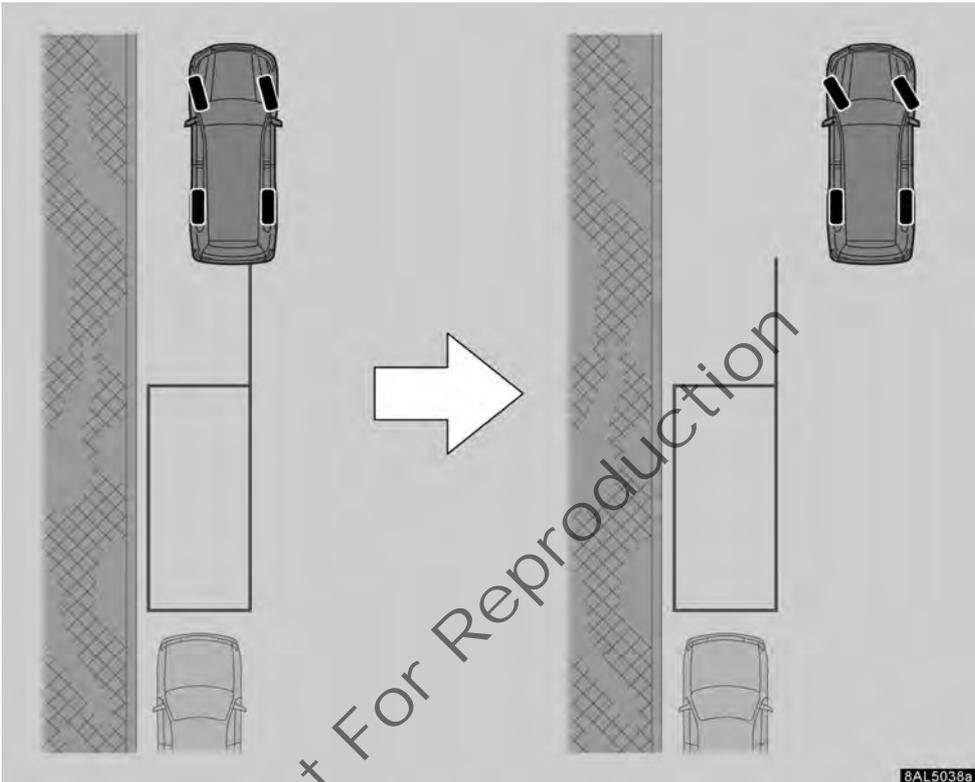
5. After the extended green line is positioned, keep the steering wheel in the same position and back up while checking all around the vehicle. A curved green line will appear on the screen.

**Be sure to keep the steering wheel position same while backing up.**

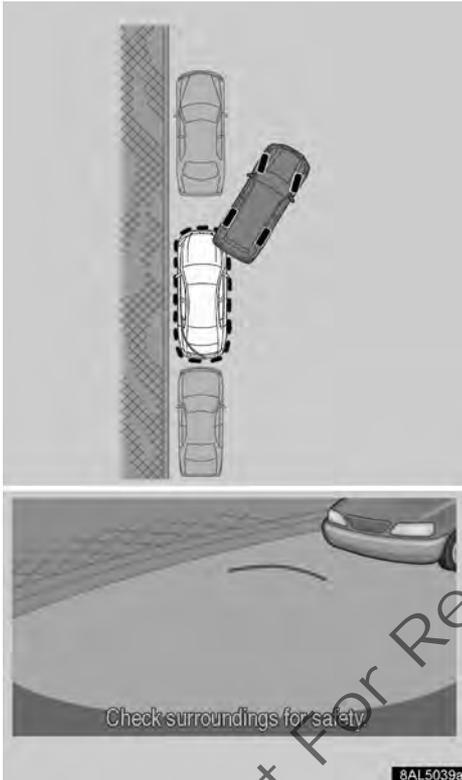
**NOTICE**

- *If you operate the steering wheel while backing up, guidance will be stopped. In this case, move the transmission out of "R" once, then shift into "R" before starting the operation from the beginning.*
- *Once you start backing up, the guideline goes out from the display. Drive your vehicle while confirming safety in the rear and surrounding area.*

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- In the above case there is no vehicle parked in front of the empty space. If you attempt to start parking from a position close to the shoulder, the screen may not change even if the vehicle moves. In a case such as this, position your vehicle away from the shoulder and start again.



7. When you have backed up until the curved green line meets the edge of the inner part of the desired parking location, stop the vehicle.

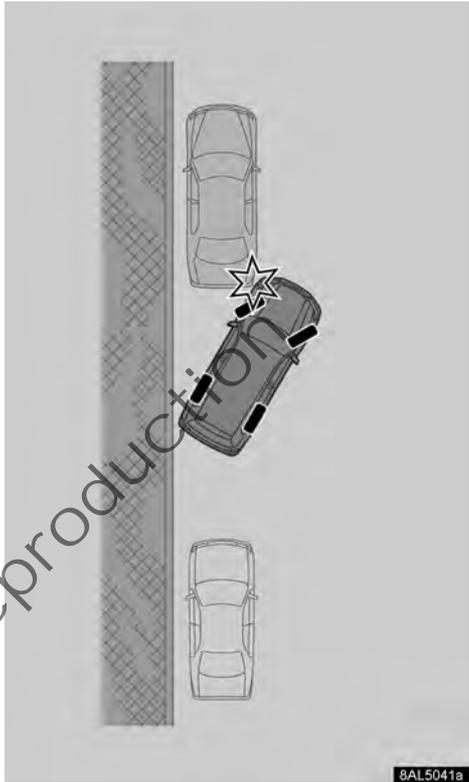
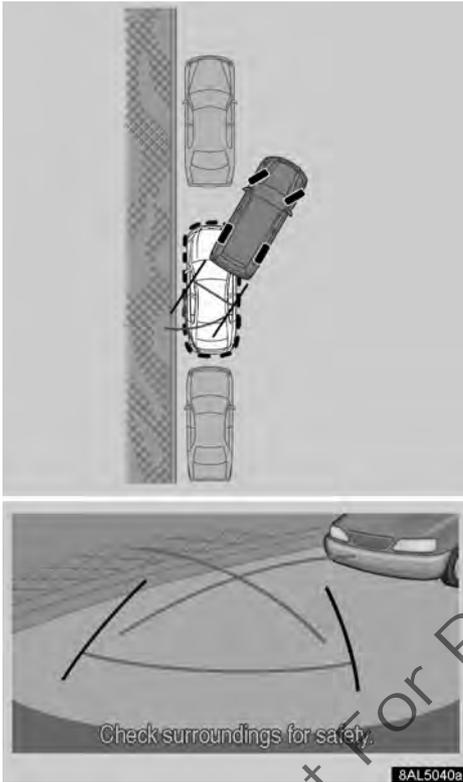
8. While the vehicle is stopped, turn the steering wheel all the way in the opposite direction. The screen will change.

**Be sure to turn the steering wheel only when the vehicle is stopped.**

6. The estimated course lines synchronize with the steering wheel and indicate the estimated course in which the vehicle moves backward.

Keep the steering wheel in the same position until the curved green line meets the edge of the inner part of the desired parking location. Back up the vehicle while checking the surroundings.

**Be sure to keep the steering wheel position same while backing up.**

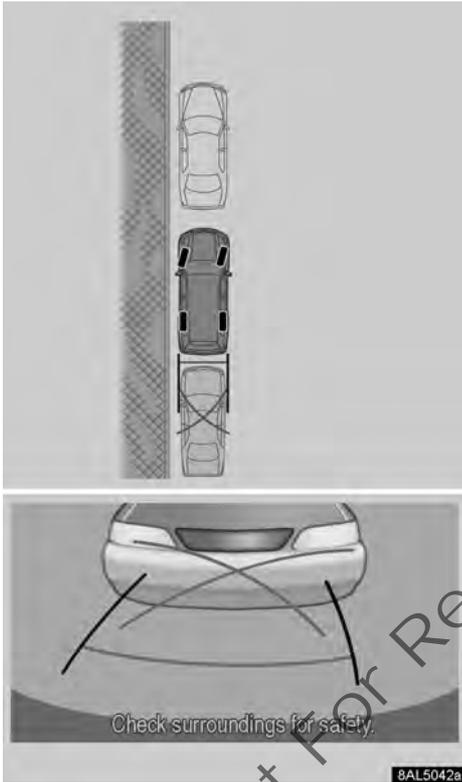


9. While keep the steering wheel in the same position and checking all around the vehicle, back up.

**Be sure to keep the steering wheel position same while backing up.**

**NOTICE**

*When backing up, do not forget to pay attention to the front and back up slowly, so as not to hit any vehicle parked in front with the front corner of your vehicle.*



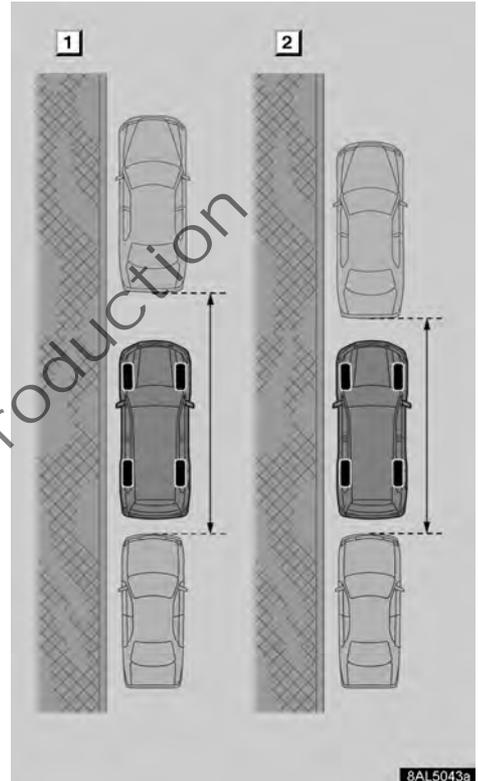
10. When the vehicle is parallel with the road or shoulder, refer to the distance guide lines. Be sure to check in front of and behind the vehicle, both directly and with mirrors, as you back up slowly.

For more information about the distance guide lines, see page 252.

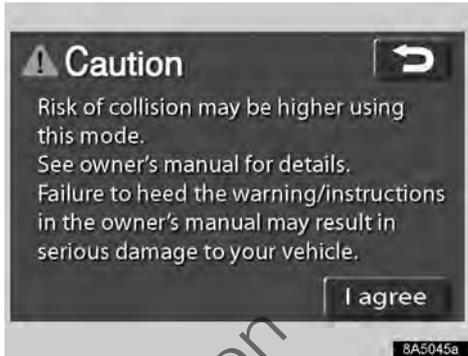
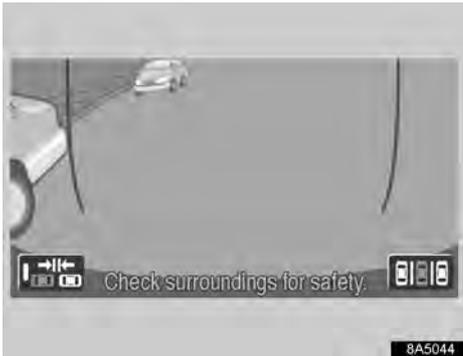
11. When the vehicle is approximately in the desired parking location, stop the vehicle.

● **Narrow mode**

If the position in which you want to park your vehicle is narrower than usual, you can use the narrow mode.



- ▶ **1 Normal mode**
- ▶ **2 Narrow mode**



1. To turn narrow mode on, touch . The "CAUTION" screen will appear.

2. When you touch "I agree" on the screen, the narrow mode will start. When canceling the narrow mode, touch .

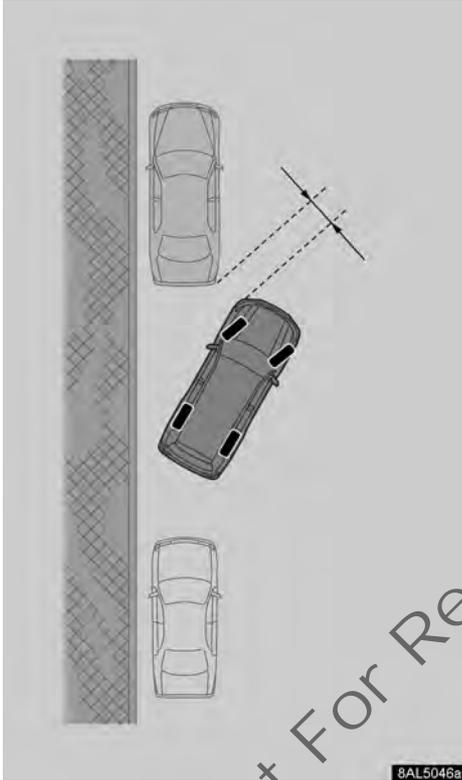
When the system is in the narrow mode, the indicator on  will be highlighted.

**Read and follow the instructions; otherwise your vehicle may be damaged.**

To cancel the narrow mode after you set it, touch  on the screen.

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## —If the battery is disconnected



The operation is the same procedure as normal mode. However, your vehicle approaches the other vehicles closer than in the normal mode. Take care not to hit the other vehicles.



If the battery is disconnected and connected again, the message "System initializing" will be displayed on the screen. The help screen appears when **?** is touched. Make a correction using the following method in accordance with the display.

When the vehicle is stopped, turn the steering wheel all the way to the left, then all the way to the right. (It does not matter in which direction—right or left—you turn first.)

When the screen returns to the original display, correction is complete.

If the above screen remains, have the vehicle inspected at your Toyota dealer.

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# SECTION 9

## APPENDIX

- Limitations of the navigation system ..... 274
- Map database information and updates ..... 276

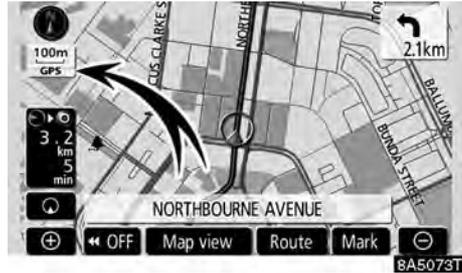
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## Limitations of the navigation system

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

The Global Positioning System (GPS) developed and operated by the U.S. Department of Defense provides an accurate current vehicle position, normally using 4 or more satellites, and in some cases 3 satellites. The GPS system has a certain level of inaccuracy. While the navigation system will compensate for this most of the time, occasional positioning errors of up to 100 m 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 GPS satellites may not send signals due to repairs or improvements being made to them.

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

### NOTICE

***The installation of window tinting may obstruct the GPS signals. Most window tinting contains some metallic content that will interfere with GPS signal reception of the antenna in the instrument panel. We advise against the use of window tinting on vehicles equipped with navigation systems.***

**(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 winding 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 direction 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 tyre chains installed.
- When the tyres are worn.
- After replacing a tyre or tyres.
- When using tyres that are smaller or larger than the factory specifications.
- When the tyre pressure in any of the four tyres is not correct.

**INFORMATION**

***If your vehicle cannot receive GPS signals, you can correct the current position manually. For information on setting the current position calibration, see page 105.***

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

- When turning at an intersection off the designated route guidance.
- If you set more than one destination but skip any of them, auto reroute will display a route returning to the destination on the previous route.
- When turning at an intersection for which there is no route guidance.
- When passing through an intersection for which there is no route guidance.
- During auto reroute, the route guidance may not be available for the next turn to the right or left.
- It may take a long time to operate auto reroute during high speed driving. In auto reroute, a detour route may be shown.
- After auto reroute, the route may not be changed.
- An unnecessary U-turn may be shown or announced.
- A location may have multiple names and the system will announce one or more.
- 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 reasons.
- The road and map data stored in your navigation system may not be complete or may not be the latest version.

**After replacing a tyre, implement the operation described in the “TYRE CHANGE CALIBRATION”. (See page 107.)**

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

## **Map database information and updates —**

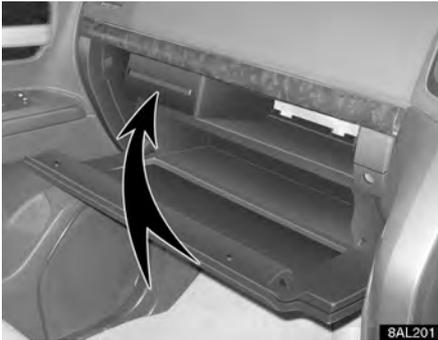
Map database is made based on the maps of DENSO, whose information source comes from Sensis Maps.

**This map database contains proprietary and confidential property of Sensis Pty Ltd. Unauthorized use (e.g. reproduce, reverse compile, adapt, modify, assign, distribute and publish) is expressly prohibited.**

In order to provide you with as accurate map information as possible, we are always gathering information such as on road repairs and carrying out on-site investigations. However, the names of roads, streets, facilities, and their locations frequently change. 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.

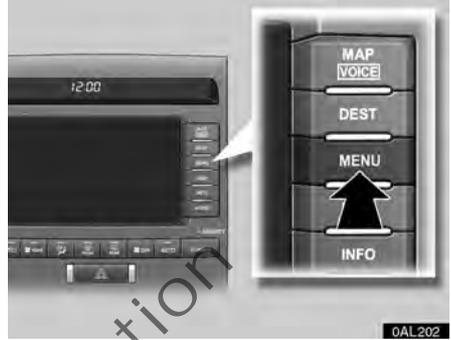
The map database is normally updated once a year. Contact your dealer for information about the availability and pricing of an update.

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The map database is normally updated once a year. Contact your dealer for updating a map database.

- To confirm the database version and disc coverage area



1. Push the "MENU" button.



2. Touch "Map DVD".

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Make sure the version of the database on this screen.

To display the disc coverage area, touch “**Covered area**”. Confirm the covered area on the screen.

Contact your dealer to find out if there is a more recent update available.

To eject the map disc, open the glove box and touch “**▲ DVD**”.

The glove box must be opened first, or the disc will come into contact with the glove box door and be reinserted.

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For navigation system function, please also refer to the **“Navigation system function index”** on page 18.

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