

Table of Contents

Quick guide —

— Overview buttons and guidance screen	5
— Registering home	7
— Registering preset destinations	9
— Operation flow: guiding the route	11
— Setting home as the destination	12
— Quick reference (“Destination” screen)	13
— Quick reference (“Setup” screen)	15
— Quick reference (“Information” screen)	16

Quick
Guide

1 Basic Functions

(Basic information before operation)

Initial screen	26
Touch screen operation	27
Inputting letters and numbers/List screen operation	28
Screen adjustment	31
Function help	32

Map screen operation

Current position display	33
Screen scroll operation	33
Switching the screens	39
Map scale	41
Foot print map	42
Orientation of the map	43
Map icons	43

Speech command system

Command list	47

2 Destination Search

Destination search	50
Selecting the search are	50
Destination search by Home	52
Destination search by Preset destinations	52
Destination search by "Address"	53
Destination search by "Point of Interest"	57
Destination search by "Previous Destinations"	63
Destination search by "Address Book"	64
Destination search by "Emergency"	64
Destination search by "Intersection & Freeway"	65
Destination search by "Map"	68
Destination search by "Coordinates"	69
Deleting set destinations	69
Starting route guidance	70

3 Route Guidance

Route guidance screen	76
Typical voice guidance prompts	79
Distance and time to destination	81
Setting and deleting destinations	82
Adding destinations	82
Reordering destinations	82
Deleting destinations	83
Setting route	84
Detour setting	84
Route overview	85
Route preference	87
Pausing and resuming guidance	89
Show on map	90
Display POI icons	90
Route trace	94
XM® NavTraffic	96

4	My Places	
	Navigation settings	100
	Setting up the “Home”	101
	Setting up the “Preset Destinations”	103
	Setting up the “Address Book”	106
	Setting up the “Areas to Avoid”	112
	Deleting previous destinations	117
5	Telephone and Information	
	Telephone (Hands-free system for cellular phone)	120
	Enter a Bluetooth® phone	124
	Call on the Bluetooth® phone	129
	Receive on the Bluetooth® phone	136
	Talk on the Bluetooth® phone	136
	Calendar	139
6	Audio System	
	Quick reference	142
	Using your audio system	143
	Some basics	143
	Radio operation	150
	CD changer operation	161
	Bluetooth® audio operation	173
	Audio remote controls	181
	Audio system operating hints	183
7	Advanced Parking Guidance System	
	Advanced parking guidance system	192

8	Setup	
	General settings	236
	Clock settings	241
	Voice settings	242
	Navigation settings	244
	Detailed navigation settings	245
	Telephone settings	254
	Volume setting	254
	Manage phone	256
	Phonebook	264
	Setting the phonebook	264
	Speed dials setting	273
	Deleting call history	279
	Setting the voice tag	281
	Bluetooth®	285
	Details	289
	Audio settings	292
	Select portable player	292
	Setting Bluetooth® audio	295
	Vehicle settings	300
	Maintenance	300
9	Appendix	
	Limitations of the navigation system	306
	Map database information and updates	308
	Changing the map DVD-ROM	317

Introduction

This manual explains the operation 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. The system uses DENSO 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 Point of Interest categories to allow you to easily select destinations such as restaurants and hotels. 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.

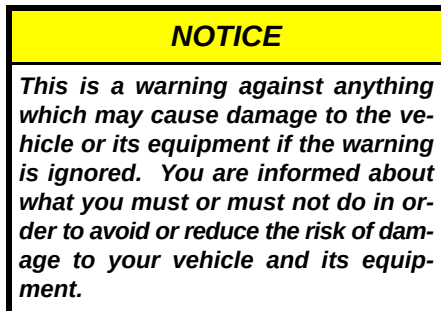
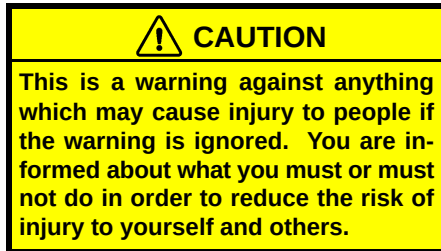
The system will provide both a visual map and audio instructions. The audio instructions will announce the distance remaining and the direction to turn in approaching an intersection. These voice instructions will help you keep your eyes on the road and are timed to provide enough time to allow you to 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 306 through 307.

TOYOTA MOTOR CORPORATION

Important information about this manual

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



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.

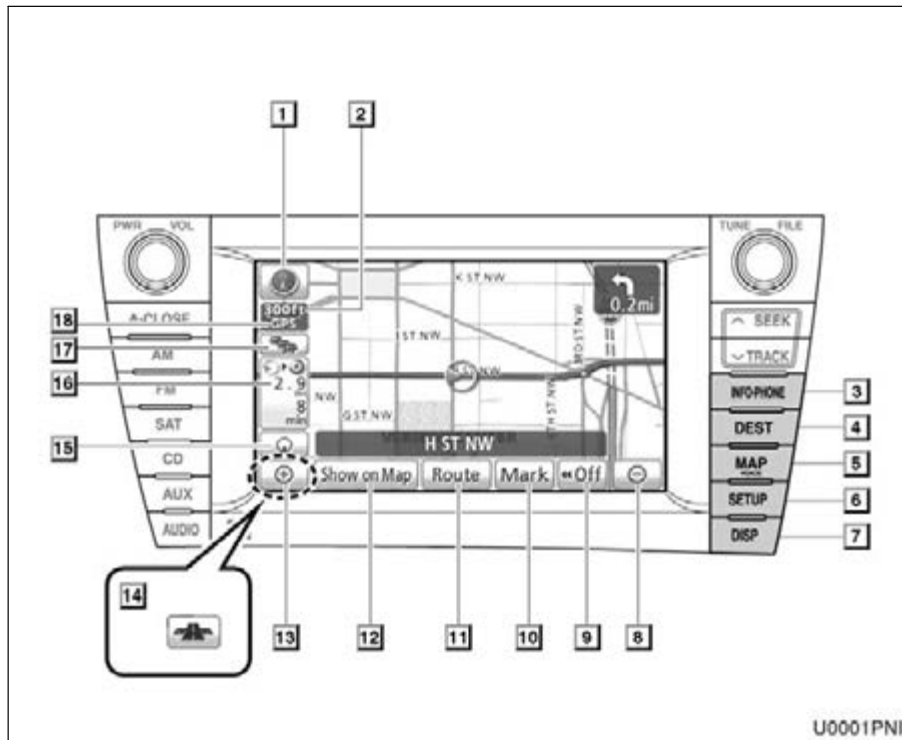
While driving, listen to the voice instructions as much as possible and glance at the screen briefly and only when it is safe. However, do not totally rely on voice guidance. Use it just for reference. If the system cannot determine the current vehicle position correctly, there is a possibility of incorrect,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

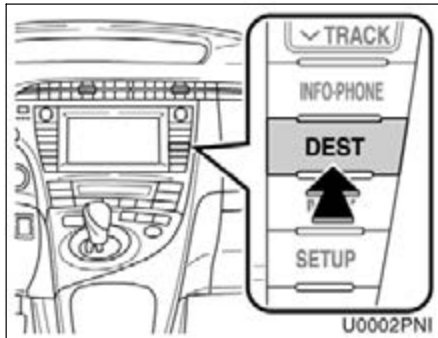
Quick guide — — Overview buttons and guidance screen



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.	43
2	Scale indicator	This figure indicates the map scale.	41
3	“INFO-PHONE” button	Push this button to display the “Information” screen.	16, 124, 139, 317, 318
4	“DEST” button	Push this button to display the “Destination” screen.	7, 9, 11, 12, 13, 50
5	“MAP/VOICE” button	Push this button to repeat a voice guidance, cancel one touch scroll, start guidance, and display the current position.	33, 80

No.	Name	Function	Page
[6]	“SETUP” button	Push this button to display the “Setup” screen. You can change the language from this screen. (See “● Selecting a language” on page 237.)	22, 100, 236, 241, 242, 245, 254, 292, 300
[7]	“DISP” button	Push this button to display the “Display” screen.	31
[8]	Zoom out button	Touch this button to reduce the map scale.	41
[9]	“◀◀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▶▶”.	250
[10]	“Mark”	Touch this button to register the current position or the cursor position as a memory point.	34
[11]	“Route”	Touch this button to change the route.	82, 84
[12]	“Show on Map”	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.	90, 94, 95, 97
[13]	Zoom in button	Touch this button to magnify the map scale.	41
[14]	Foot print map button	Touch this button to display the foot print map and the building information.	42
[15]	Screen configuration button	Touch this button to change the screen mode.	39
[16]	Distance and time to destination	Displays the distance, the estimated travel time to the destination, and the estimated arrival time at the destination.	81
[17]	XM® NavTraffic mark	This mark is displayed when XM® NavTraffic information is received.	96
[18]	“GPS” mark (Global Positioning System)	Whenever the vehicle is receiving signals from the GPS, this mark is displayed.	306

— Registering home



1 Push the “DEST” button.



2 Touch “Go Home”.

If home has not been registered, you can register it by touching “Go Home”.



3 Touch “Yes”.



4 There are 4 different methods to search your home.

See “Destination search” on page 50.



5 Touch "Enter".

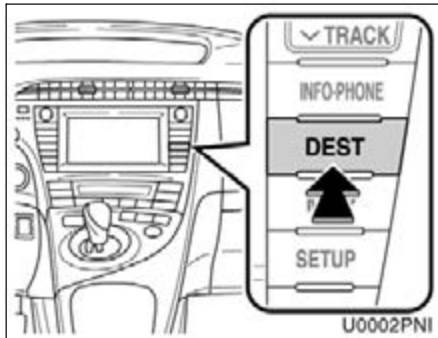
The "Edit Home" screen is displayed.



6 Touch "OK".

Registration of home is complete.
 You can also register home by pushing the "SETUP" button. (See " (a) Registering home" on page 101.)
 You can change the name, location, phone number and icon. (See " (b) Editing home" on page 102.)

— Registering preset destinations



1 Push the “DEST” button.



2 Touch one of the preset destination buttons.

You can set a preset destination to any preset destination button that has not yet been set.



3 Touch “Yes”.



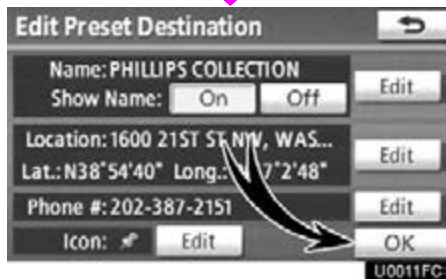
4 There are 4 different methods to search preset destinations.

See “Destination search” on page 50.



5 Touch "Enter".

The "Edit Preset Destination" screen is displayed.



6 Touch "OK".

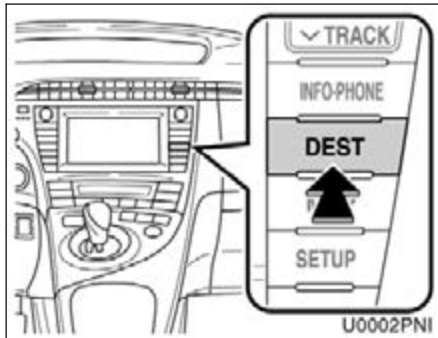
Registration of preset destinations is complete.

You can also register preset destinations by pushing the "SETUP" button. (See " (a) Registering preset destinations" on page 104.)

You can change the name, location, phone number and icon. (See " (b) Editing preset destinations" on page 105.)

The registered points can be used on the "Destination" screen. (See " — Destination search by Preset destinations" on page 52.)

— Operation flow: guiding the route



1 Push the “DEST” button.



2 There are 10 different methods to search destinations.

See “Destination search” on page 50.



3 Touch “Go to”.

The navigation system performs a search for the route.



4 Touch “OK”, and start driving.

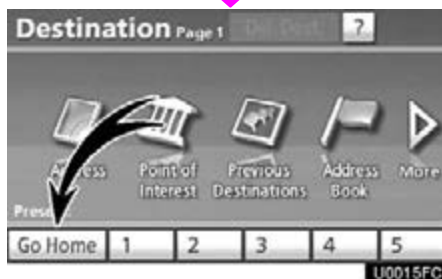
Routes other than the one recommended can also be selected. (See “Starting route guidance” on page 70.)

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

— Setting home as the destination



1 Push the “DEST” button.



2 Touch “Go Home”.

“Go Home” can be used if your home has been registered. (To register “Home”, see “(a) Registering home” on page 101.)



3 Touch “Go to ”.

The navigation system performs a search for the route.



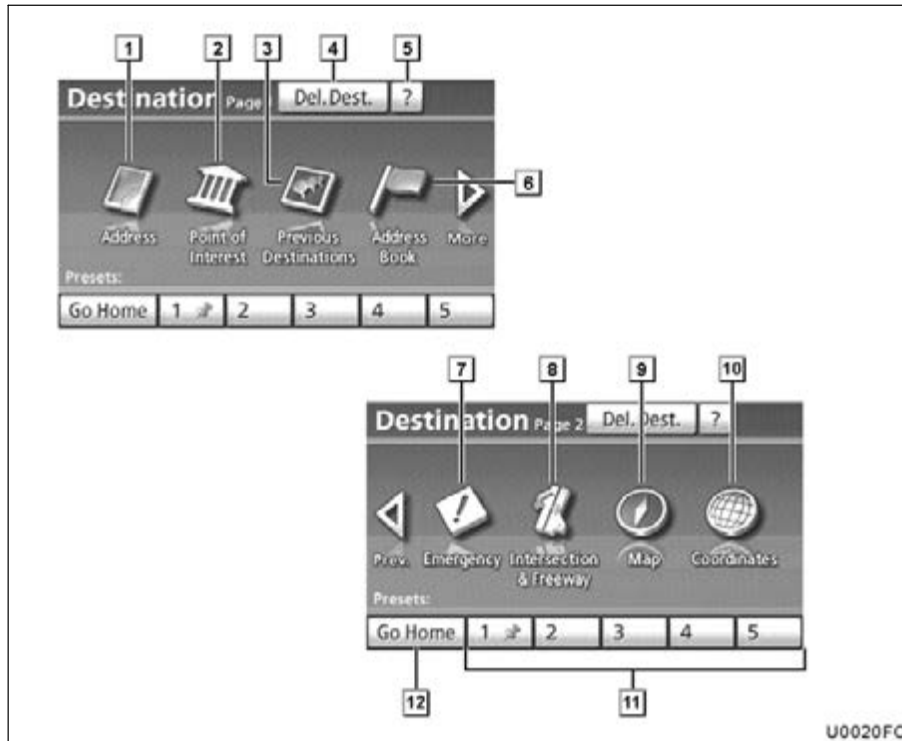
4 Touch “OK”, and start driving.

Routes other than the one recommended can also be selected. (See “Starting route guidance” on page 70.)

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

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.

..... 53

2 “Point of Interest”

Select one of the many Points of Interest that have already been stored in the system’s database.

..... 57

3 “Previous Destinations”

A destination can be selected from any of the last 100 previously set destinations and from the previous starting point.

..... 63

4 “Del. Dest.”

Set destinations can be deleted.

..... 69

5 “?”

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

..... 32

6 “Address Book”

The desired location can be selected from a registered entry in the “Address book”. (To register address book entries, see “(a) Registering address book entries” on page 107.)

..... 64

7 “Emergency”

One of the four categories of emergency service points that are already stored in the system’s database can be selected.

..... 64

8 "Intersection & Freeway"

The names of two intersecting streets or a freeway (interstate) entrance or exit can be entered. This is helpful if only the general vicinity, not the specific address, is known. 65

9 "Map"

A destination can be selected simply by touching the location on the displayed map. 68

10 "Coordinates"

A destination can be set using latitudes and longitudes as coordinates. 69

11 Preset destination touch screen buttons

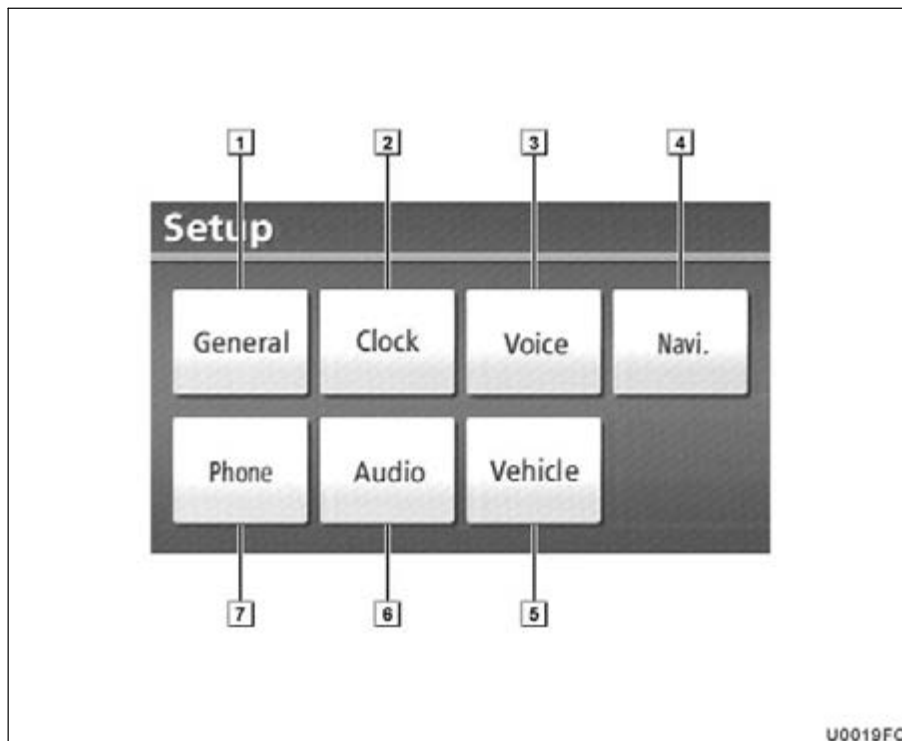
One of 5 preset destination points can be selected by touching the screen directly. If a preset destination point has not been registered, a message will be displayed and the setting screen will automatically appear. To use this function, it is necessary to set the "preset destination". (To register a "Preset Destination", see "(a) Registering preset destinations" on page 104.) 52

12 "Go Home"

A personal home address can be selected without entering the address each time. If "Home" has not been registered, a message will be displayed and the setting screen will automatically appear. To use this function, it is necessary to set a "Home" address. (To register "Home", see "(a) Registering home" on page 101.) 52

Quick reference (“Setup” screen)

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



1 “General”

Settings are available for language selection, operation sounds, automatic screen change, etc. 236

2 “Clock”

Used for changing settings for time zones, daylight saving time, etc. 241

3 “Voice”

Voice guidance can be set. 242

4 “Navi.”

Settings are available for average cruising speed, displayed screen contents, POI icon categories, etc. 245

5 “Vehicle”

Settings are available for vehicle information such as maintenance information. 300

6 “Audio”

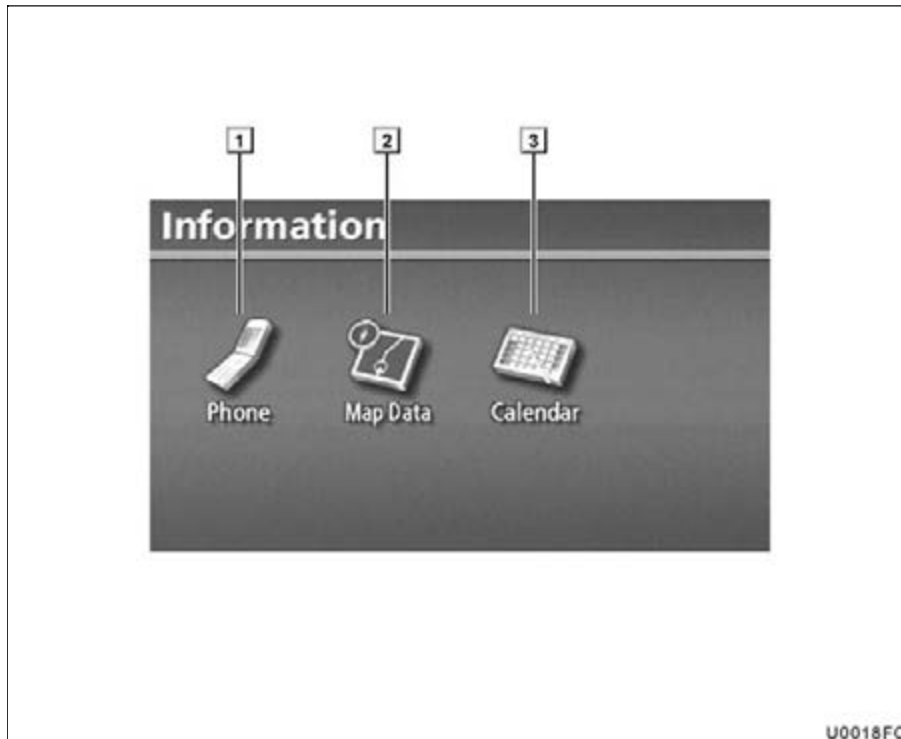
Settings are available for portable audio devices, Bluetooth® audio devices etc. 292

7 “Phone”

Bluetooth® phones and phone numbers can be registered, and the receiver volume can be adjusted. 254

Quick reference (“Information” screen)

This screen can be used to display the calendar and information on operation of the hands-free phone, etc. To display the “Information” screen, push the “INFO·PHONE” button.



- 1 “Phone”**
To view hands free phone information.
..... 124
- 2 “Map Data”**
Displays information regarding the map
data disc version or coverage area.
..... 317
- 3 “Calendar”**
To view calendar. 139

SECTION 1

BASIC FUNCTIONS

Basic information before operation

• Initial screen	26
• Touch screen operation	27
• Inputting letters and numbers/List screen operation	28
• Screen adjustment	31
• Function help	32
• Map screen operation	33
Current position display	33
Screen scroll operation	33
Switching the screens	39
Map scale	41
Foot print map	42
Orientation of the map	43
Map icons	43
• Speech command system	44
Command list	47

BASIC FUNCTIONS

Initial screen



When the "POWER" switch is in ACCESSORY or ON mode, the initial screen will be displayed and the system will begin operating.



After a few seconds, the "CAUTION" screen will be displayed.



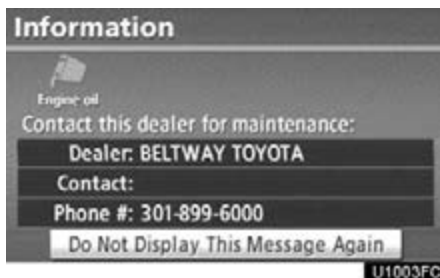
After about 5 seconds, the "CAUTION" screen automatically switches to the map screen. When the "MAP/VOICE" button is also pushed, the map screen is displayed.

While the "CAUTION" screen is displayed, the "DEST" or "SETUP" button cannot be operated. And if the "Calendar" button on the "Information" screen is touched, the screen will change back to the "CAUTION" screen. In about 5 seconds, or when the "MAP/VOICE" button is pushed or the "Show Map" is touched, the "CAUTION" screen will change to the map screen.

- **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” on page 300.

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. (To set a beep sound, see page 236.)

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.*
- *Under extremely cold conditions, the map may not be displayed and the data input by a user may be deleted. Also, the touch screen buttons may be harder than usual to depress.*
- *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.*

BASIC FUNCTIONS

Inputting letters and numbers/List screen operation

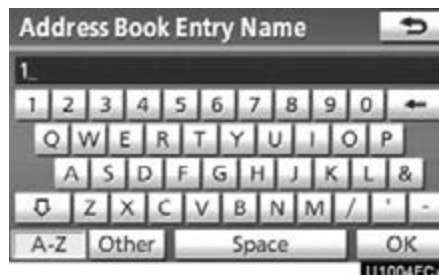
When searching for an address or a name, or entering, letters and numbers can be input via the touch screen.

INFORMATION

*Keyboard layout can be changed.
(See page 239.)*

- **To input letters and numbers**

To display the alphabet keys, touch "A-Z".

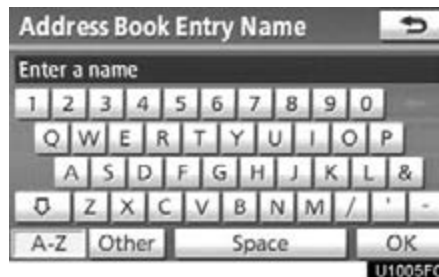


Enter letters by touching the keys directly.



: 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.



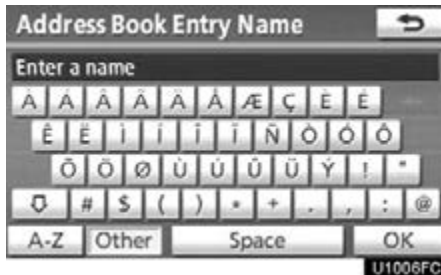
: To enter in lower case.



: To enter in upper case.

- To input symbols

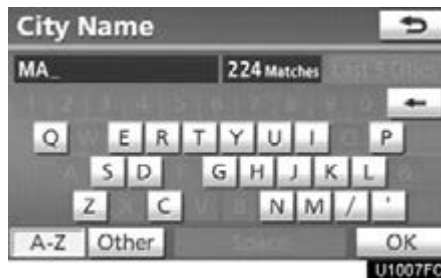
To display symbol keys, touch “Other”.



Enter symbols by touching the symbol keys directly.

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

- To display the list



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

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



INFORMATION

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

BASIC FUNCTIONS

• List screen operation

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



To shift to the next or previous page.



Touch  or  to scroll through the displayed list.



This expresses a displayed screen position.



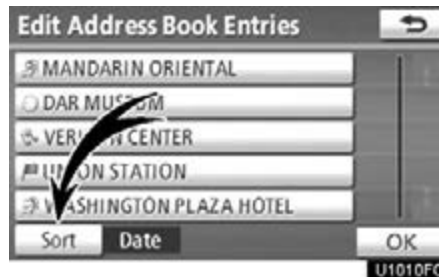
If  appears to the right of the item name, the complete name is too long for the display. Touch  to scroll to the end of the name.



Touch  to scroll to the beginning of the name.

• Sorting

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



1. Touch "Sort".



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.

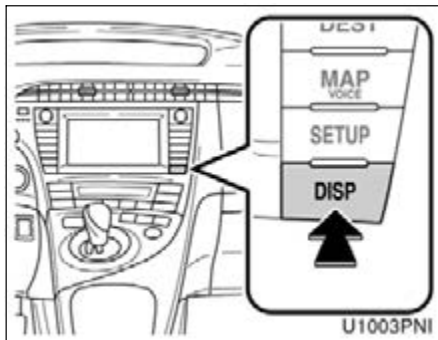
"Name": To sort in order by name.

Screen adjustment

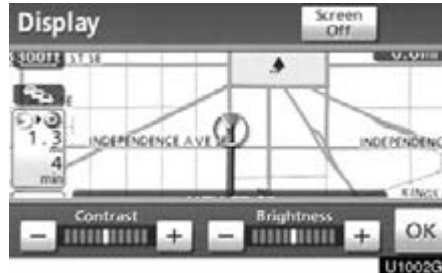
You can adjust the contrast and brightness of the screen. You can also turn the display off, and change the screen to either day or night mode.

- **Contrast and brightness adjustment**

The contrast and brightness 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. Touch the desired button to adjust contrast and brightness.

“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 the “DISP” button again, or push the “DEST” or another screen mode button.

INFORMATION

When you do not touch any button on the “Display” screen for 20 seconds, the previous screen will be displayed.

BASIC FUNCTIONS

- **Changing between day mode and night mode**

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



To display the screen in 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 day mode with the headlight switch turned on, this condition is memorized in the system even with the hybrid system turned off.

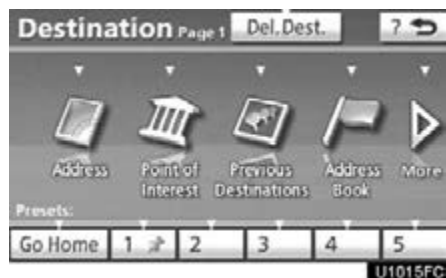
If the instrument panel light control switch is turned fully to upper, the displays condition is not changed to night mode even if headlight switch is turned on.

Function help

When  appears on the screen, an explanation of the function can be displayed.



1. Touch .



2. Touch the button of the desired function.



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 center or bottom center 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 the 12 volt 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 251.

— Screen scroll operation (one-touch scroll)

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



Use the scroll feature to move the desired point to the center 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 touched point will also be shown (3).

After the screen is scrolled, the map remains centered 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 center 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.

BASIC FUNCTIONS

- 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 route preference. (See “Starting route guidance” on page 70.)

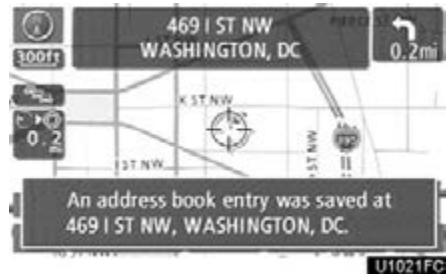
- To register the cursor position as an address book entry

Address book entry registration enables easy access to a specific point.



Touch “Mark”.

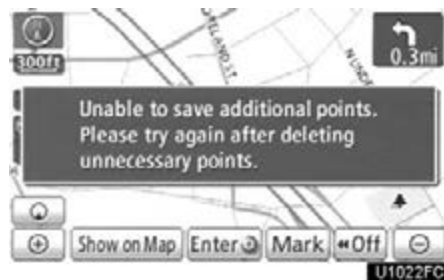
When you touch “Mark”, the following screen appears for a few seconds, and then the map screen returns.



The registered point is shown by  on the map.

To change the icon or name, etc., see “(b) Editing address book entries” on page 108.

Up to 100 address book entries can be registered. If there is an attempt to register more than 100 address book entries, an error message will appear.



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



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

BASIC FUNCTIONS

POI INFORMATION

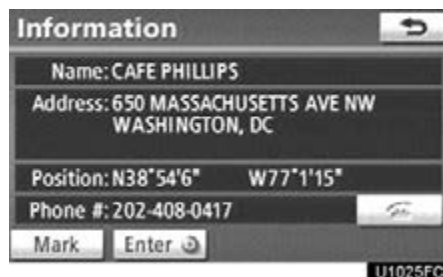
When the cursor is set on a POI icon, the name and “Info.” are displayed at the top of the screen.



INFORMATION

The desired Point of Interest can be displayed on the map screen. (See “ — Display POI icons” on page 90.)

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, “Go to” and “Add to Route” are displayed.

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

“Add to Route”: To add a destination.

To register this POI as an address book entry, touch “Mark”. (See page 107.)

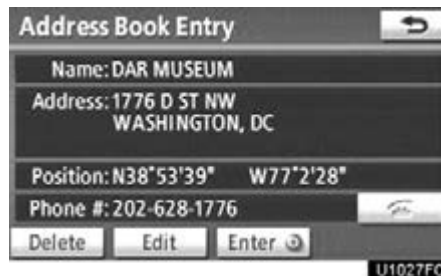
If  is touched, the registered telephone number can be called.

ADDRESS BOOK ENTRY INFORMATION

When the cursor is set on an address book entry icon, the name and **"Info."** are displayed at 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, **"Go to"** and **"Add to Route"** are displayed.

"Go to": To delete the existing destinations and set a new one.

"Add to Route": To add a destination.

To edit an address book entry, touch **"Edit"**. (See "(b) Editing address book entries" on page 108.)

To delete an address book entry, touch **"Delete"**.

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

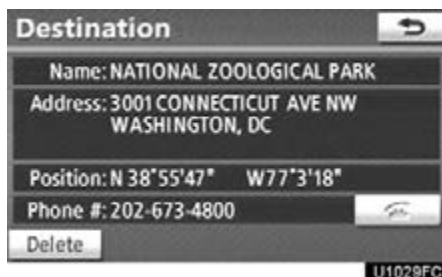
BASIC FUNCTIONS

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”.

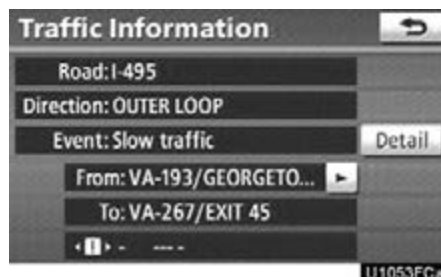
If  is touched, the registered telephone number can be called.

XM® NavTraffic TEXT INFORMATION

When you touch the XM® NavTraffic icon on the map, the XM® NavTraffic info. bar will appear on the upper part of the screen.



Touch “Info.”.



Traffic information is displayed on the screen.

Touch “Detail” to display detailed traffic event information.



— 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.

Single Map :

To display the single map screen. (See page 40.)

Dual Map :

To display the dual map screen. (See page 40.)

Compass :

To display the compass mode screen. (See page 41.)

Freeway :

To display the freeway screen. (See page 76.)

Turn List :

To display the turn list screen. (See page 78.)

Arrow :

To display the arrow screen. (See page 78.)

Intersection :

To display the intersection guidance screen or the guidance screen on the freeway. (See page 77.)

BASIC FUNCTIONS

- Screen configurations

SINGLE MAP

This is a regular map screen.

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

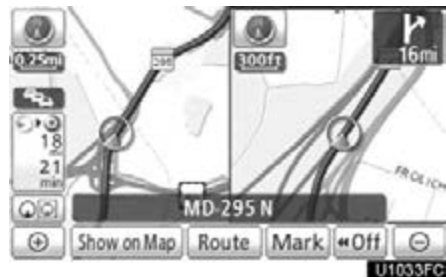


The screen shows the single map.

DUAL MAP

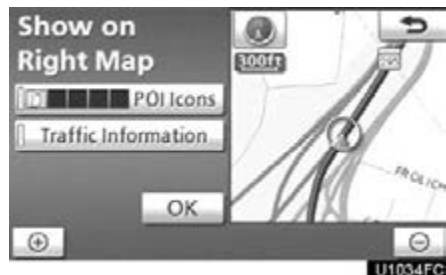
A map can be displayed split in two.

While on a different screen, touching  **Dual Map** 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 by touching any specific point on the right side map.



This screen can perform the following procedures:

1. Changing the map scale
2. Displaying the POI icon
3. Show XM® NavTraffic Info. (See page 96.)
4. Changing the orientation of the map

Touch "OK" when you complete editing.

The screen returns to the dual map screen.

COMPASS MODE

Current vehicle position is indicated with a compass.

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

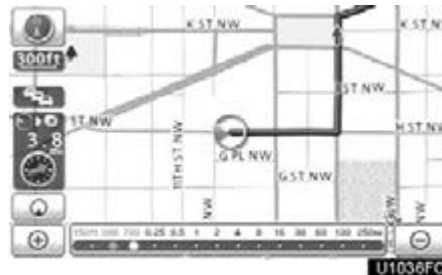


Information about the destination and current position, as well as a compass, is displayed on the screen.

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 150 feet (50 m) to 250 miles (400 km).

Touch  or  until the scale bar changes normally. 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 250 miles (400 km),  is not shown. When the map scale is at the minimum range of 150 feet (50 m),  is not shown. In areas where the foot print map is available the map scale changes from  to  when at the minimum range.

BASIC FUNCTIONS

— Foot print map

For the area which is covered by the foot print map (Some areas in the following cities: Detroit, Chicago, N.Y., L.A), you can switch to the foot print map on a scale of 75 feet (25 m).

- To switch to the foot print map

 changes into  when the map is scaled down to 150 feet (50 m).



To display the foot print map, touch



To delete the foot print map display, touch

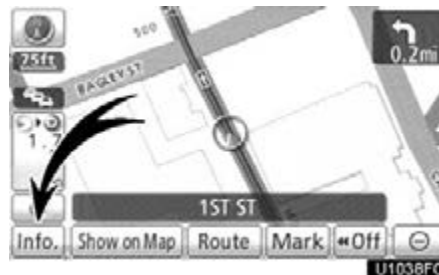


INFORMATION

- If the map or the current position is moved to the area which is not covered by the foot print map, the screen scale automatically changes to 150 feet (50 m).
- On the foot print map, a one way street is displayed by .
- It is not possible to perform scrolling on the foot print map (one-touch scroll) while driving.

- To display building information

Information is available only for buildings for which information is recorded on the map disc.



Touch "Info." while the foot print map is displayed.



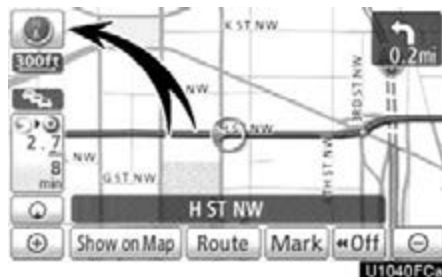
Details of POIs in some buildings may be displayed.

For detailed POI information, touch the building name. You can see details of the selected POIs.

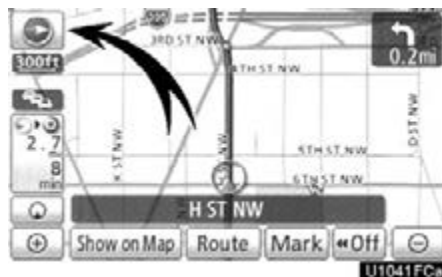
— Orientation of the map

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.

Touch  or .



► North-up screen



► Heading-up screen



North-up symbol

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



Heading-up symbol

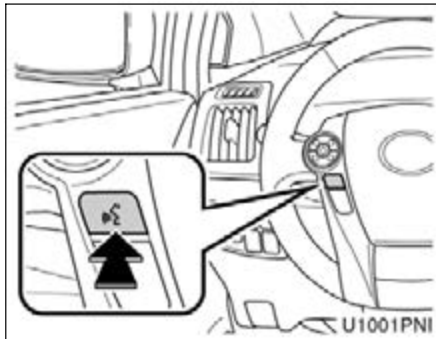
The direction of vehicle travel is always up. A red arrow indicates North.

—Map icons

Icon	Name
	Island
	Park
	Industry
	Business facility
	Airport
	Military
	University
	Hospital
	Stadium
	Shopping mall
	Golf

Speech command system—

The speech command system enables you to operate the navigation system, audio system and hands-free system by giving a command.



1. Push the talk switch.

After a beep sounds, the “Voice Menu” screen is displayed.



2. After a beep sounds, say the command of your choice.

Speech commands are marked with .

Speak the commands as displayed on the screen.

If you want to check the command list, say “**Command list**” to display the command list screen. (See “—Command list” on page 47.)

INFORMATION

Voice guidance for the speech command system can be skipped by pushing the talk switch.



3. Following voice guidance, say the command displayed on the screen.

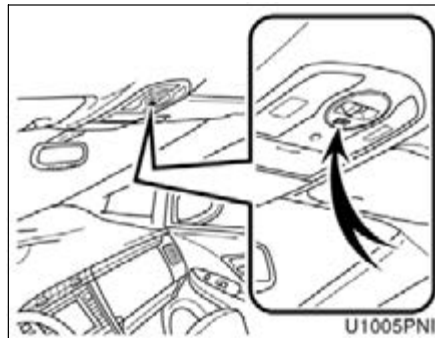
If a desired outcome is not shown, or if no choices are available, say **“Go back”** or touch **“Go Back”** to return to the previous screen.

To cancel speech command recognition, say **“Cancel”**, touch **“Cancel”**, or push and hold the talk switch.

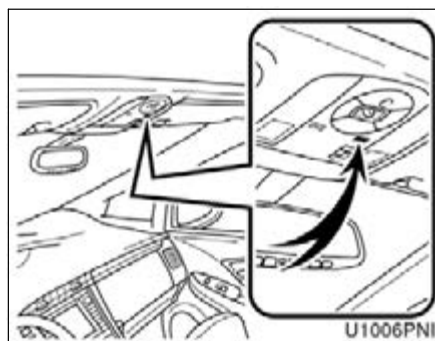
If the navigation system does not respond or the confirmation screen does not disappear, please push the talk switch and try again.

If a speech command cannot be recognized within 6 seconds, the voice guidance system will say “Pardon?” (“Command not recognized.” will be displayed on the screen) and speech command reception will restart.

If a speech command cannot be recognized two consecutive times, the voice guidance system will say “Paused. To restart voice recognition, push the talk switch.”, then be suspended.



► Microphone (Type A)



► Microphone (Type B)

It is unnecessary to speak directly into the microphone when giving a command.

INFORMATION

- *Wait for the confirmation beep before speaking a command.*
- *Voice commands may not be recognized if :*
 - *Spoken too quickly*
 - *Spoken at a low or high volume*
 - *The windows or sunroof are open*
 - *Passengers are talking while voice commands are spoken*

BASIC FUNCTIONS

- **Speech command example: Searching for a route to your home.**

1. Push the talk switch.
2. Say **“Go home”**.

If a home address is not registered, the voice guidance system will say “Your home is not set” and you will be prompted to enter a home address. (See page 101.)

When the speech command is recognized, a map of the area around your home is displayed.



3. Touch **“Enter”** or say **“Enter”**, and the system starts searching for a route to your home.

To return to the “Voice Menu” screen, say **“Go back”** or touch **“Go Back”**.

Touch **“Cancel”** or say **“Cancel”**, and the speech command system will be canceled.

When you search the destination by POI, this screen is displayed.



INFORMATION

In the following conditions, the system may not recognize the command properly and using speech commands may not be possible.

- *The command is not correct or clear.*
Note that certain words, accents, or speech patterns may be difficult for the system to recognize.
- *There are some noises such as wind noise, etc.*

—Command list

The system has a voice recognition command list. You can operate the voice recognition system by saying any command from the displayed command list. However, the XM® NavTraffic commands cannot be used where the XM® NavTraffic service is not available. (For details, see “XM® NavTraffic” page 96.)

INFORMATION

When the “Voice Menu” screen is displayed, all the commands in the voice recognition command list can be recognized.

1. Push the talk switch.



2. Say “Command list”.



3. Say the command of your choice to operate the system.

To confirm commands on the screen,

touch  or  to scroll through the command list. This function is available only when the vehicle is not moving.

BASIC FUNCTIONS

- Speech command example: Changing map screen

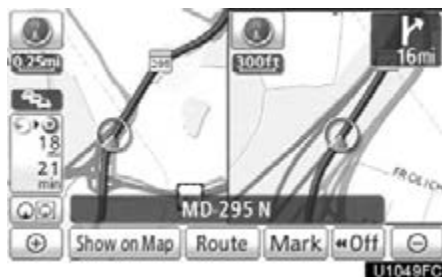
1. Push the talk switch.
2. Say “*Command list*”.



3. Say “*Dual map*”.

To confirm commands on the screen, touch  or  to scroll through the command list. This function is available only when the vehicle is not moving.

When  or  is touched, push the talk switch again and say the command.



The screen shows the dual map.

- Speech command example: Changing map scale

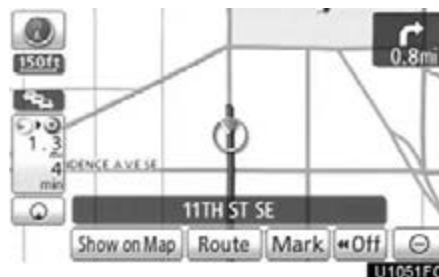
1. Push the talk switch.
2. Say “*Command list*”.



3. Say “*Zoom in*” or “*Zoom out*”.

To confirm commands on the screen, touch  or  to scroll through the command list. This function is available only when the vehicle is not moving.

When  or  is touched, push the talk switch again and say the command.



The scale of the map display is changed.

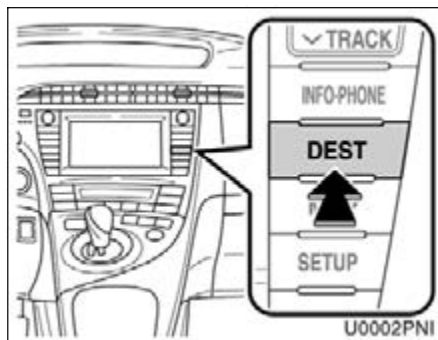
SECTION 2

DESTINATION SEARCH

• Destination search	50
Selecting the search area	50
Destination search by Home	52
Destination search by Preset destinations	52
Destination search by "Address"	53
Destination search by "Point of Interest"	57
Destination search by "Previous Destinations"	63
Destination search by "Address Book"	64
Destination search by "Emergency"	64
Destination search by "Intersection & Freeway"	65
Destination search by "Map"	68
Destination search by "Coordinates"	69
Deleting set destinations	69
• Starting route guidance	70

DESTINATION SEARCH

Destination search —



Push the “DEST” button.



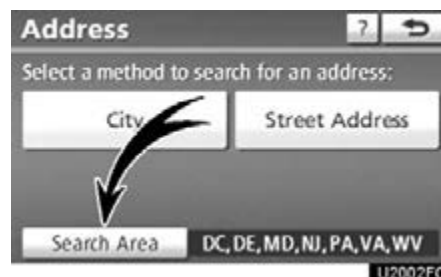
You can use one of 10 different methods to search your destination. (See pages 52 through 69.)

INFORMATION

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

— Selecting the search area

Change the selected region in order to set a destination from a different region by using “Address”, “Point of Interest” or “Intersection & Freeway”.



1. Touch “Search Area” to display a map of the United States and Canada divided into 12 regions. (For map database information and updates, see “Map database information and updates” on page 308.)



2. Touch one of “US1” through “CAN” to select a region to search.

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

DESTINATION SEARCH

U.S.A.	
Button	States included in the search region
"US1"	Idaho Oregon Washington
"US2"	California Nevada
"US3"	Arizona Colorado Montana New Mexico Utah Wyoming
"US4"	Iowa Kansas Minnesota Missouri North Dakota Nebraska South Dakota
"US5"	Oklahoma Texas
"US6"	Illinois Indiana Kentucky Michigan Ohio Wisconsin
"US7"	Arkansas Alabama Louisiana Mississippi Tennessee
"US8"	Connecticut Massachusetts Maine New Hampshire New Jersey New York Rhode Island Vermont

"US9"	Washington, D.C. Delaware Maryland New Jersey Pennsylvania Virginia West Virginia
"US10"	Florida Georgia North Carolina South Carolina
"HI"	Hawaii

Canada	
Button	Provinces and regions included in the search region
"CAN"	All provinces and regions in Canada included in this button.

— Destination search by Home

1. Push the “DEST” button.



2. Touch “Go Home”.

The screen changes and displays the map location for home and the route preference. (See “Starting route guidance” on page 70.)

If home has not been registered, a message will be displayed and the setting screen will automatically appear.

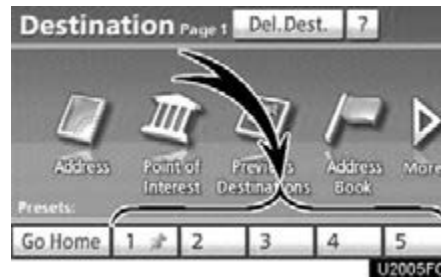
To use this function, it is necessary to set a “Home” address. (To register “Home”, see page 101.)

INFORMATION

Guidance starts from the current vehicle position to your home if “OK” is touched even while driving.

— Destination search by Preset destinations

1. Push the “DEST” button.



2. Touch any of the preset destination touch screen buttons on the “Destination” screen.

The screen changes and displays the map location of the preset destination point and the route preference. (See “Starting route guidance” on page 70.)

If a preset destination point has not been registered, a message will be displayed and the setting screen will automatically appear.

To use this function, it is necessary to set “Preset Destinations”. (To register “Preset Destinations”, see page 103.)

INFORMATION

Guidance starts from the current vehicle position to the preset destination point if “Go to Ⓢ” is touched even while driving.

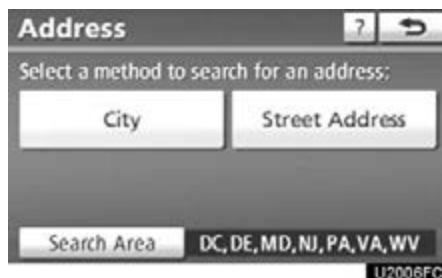
— Destination search by “Address”

There are 2 ways to search a destination by address.

- (a) Search by city
- (b) Search by street address

1. Push the “DEST” button.

2. Touch “Address” on the “Destination” screen.

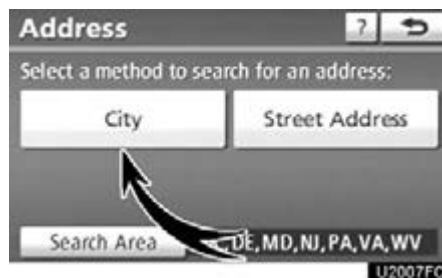


3. Touch the button for the desired method.

(a) Selecting a city to search

1. Push the “DEST” button.

2. Touch “Address” on the “Destination” screen.



3. Touch “City”.



4. Input a city name.

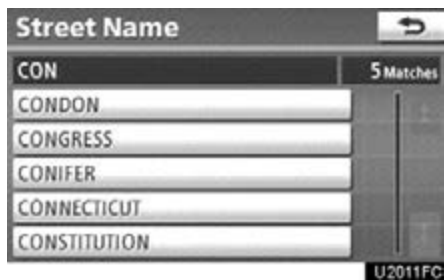


5. Touch the button of the desired city name from the displayed list.

DESTINATION SEARCH



6. Input the street name and touch "OK".

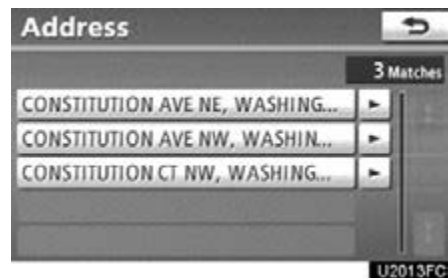


7. When the desired street name is found, touch the corresponding button.

The screen changes and displays the map location of the selected destination and the route preference. (See "Starting route guidance" on page 70.)



8. Input a house number.



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

SELECTING FROM THE LAST 5 CITIES



1. Touch "Last 5 Cities".



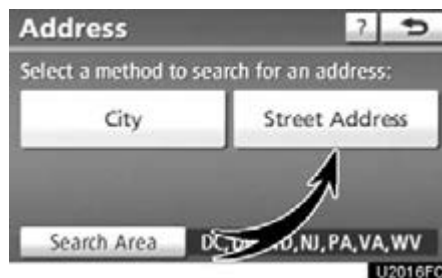
2. Touch the button of the desired city name.

If the navigation system has never been used, this function will not be available.

The current screen changes to the screen for inputting a street name. (See "(a) Selecting a city to search" on page 53.)

(b) Search by street address

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



3. Touch "Street Address".



4. Touch numbers directly on the screen to input a house number.

After inputting a house number, touch "OK" to display the screen for inputting a street name.



5. Input the street name and touch "OK".

DESTINATION SEARCH



6. When the desired street name is found, touch the corresponding button.

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 70.)

If the same address exists in more than one city, the current screen changes inputting the city name or to the address list screen.



7. Input a city name.



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

INFORMATION

You can search for a street name using just the body.

Example : S WESTERN AVE

You can input “S WESTERN AVE”, “WESTERN AVE” or “WESTERN”

— Destination search by “Point of Interest”

There are 3 ways to search by Points of Interest.

- (a) Search by name
- (b) Search by category
- (c) Search by phone #

1. Push the “DEST” button.
2. Touch “Points of Interest” on the “Destination” screen.



3. Touch the button for the desired method.

(a) Search by “Name”

1. Push the “DEST” button.
2. Touch “Point of Interest” on the “Destination” screen.
3. Touch “Name” on the “Point of Interest” screen.



4. Input the name of the Point of Interest.



5. Touch the button of the desired destination.

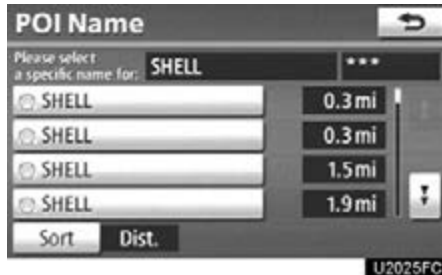
The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 70.)

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.

INFORMATION

To search for a facility name using multiple search words, put a space between each word.

DESTINATION SEARCH



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 “● Selecting a city to search” on page 58 and “● Selecting from the categories” on page 59.)

INFORMATION

The desired Point of Interest can be displayed on the map screen. (See “ — Display POI icons” on page 90.)

- Selecting a city to search



1. Touch “City”.



2. Input the city name.



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

INFORMATION

To cancel the city setting, touch “Any City”.

● Selecting from the categories

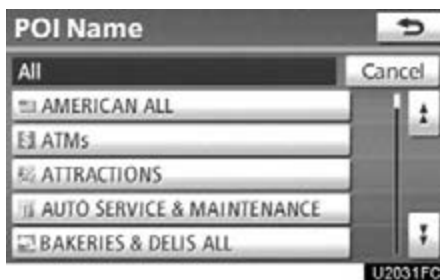


Touch "Category".



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 screen is displayed.

(b) Search by "Category"

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

1. Push the "DEST" button.
2. Touch "Point of Interest" on the "Destination" screen.
3. Touch "Category" on the "Point of Interest" screen.



Set the search point by the following method:

1. Set the search point from near the vehicle's current position
2. Set the search point from along the chosen route
3. Set the search point from near a city center
4. Set the search point from near a destination

It is possible to display the names of POIs located within approximately 200 miles (320 km) from the selected search point.

DESTINATION SEARCH

SETTING THE SEARCH POINT FROM NEAR HERE

Touch “Near Here”.

The search point is set at the current position, and the “POI Category” screen will be displayed. (See page 62.)

SETTING THE SEARCH POINT FROM ALONG MY ROUTE

Touch “Along My Route”.

The search point is set and the “POI Category” screen will be displayed. (See page 62.)

SETTING THE SEARCH POINT FROM NEAR CITY CENTER

1. Touch “Near City Center”.



2. Input the city center name.



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

The search point is set and the “POI Category” screen will be displayed. (See page 62.)

SELECTING FROM THE LAST 5 CITIES

1. Touch "Near City Center".



2. Touch "Last 5 Cities".

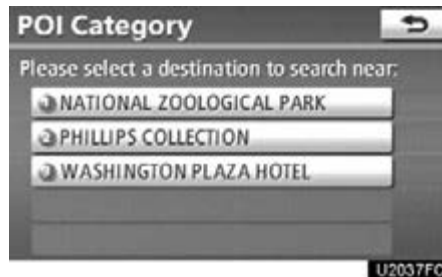


3. Touch the button of the desired city center name.

The search point is set and the "POI Category" screen will be displayed. (See page 62.)

SETTING THE SEARCH POINT FROM NEAR A DESTINATION

1. Touch "Near a Destination".



2. Touch the button of the desired destination.

The search point is set and the "POI Category" screen will be displayed. (See page 62.)

DESTINATION SEARCH

- To search POIs near the search point

When the search point is set, the "POI Category" screen will be displayed.



Select the desired POI category.

If the desired POI category is not on the screen, touch "List All Categories" to list all POI categories.



Select the desired POI category from the list.



By touching the button of the desired item, the screen changes and displays the map location of the selected destination and the route preference. (See "Starting route guidance" on page 70.)

- (c) Search by "Phone #"

1. Push the "DEST" button.
2. Touch "Point of Interest" on the "Destination" screen.
3. Touch "Phone #" on the "Point of Interest" screen.



4. Input a telephone number.
5. After inputting a telephone number, touch "OK".

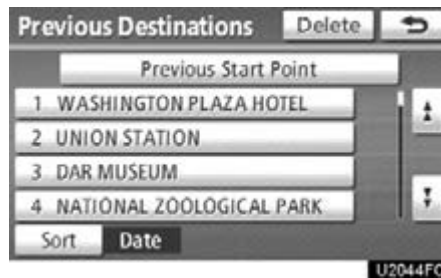
The screen changes and displays the map location of the selected destination and the route preference. (See "Starting route guidance" on page 70.)

If there is more than one site with the same number, the following screen will be displayed.



— Destination search by “Previous Destinations”

1. Push the “DEST” button.
2. Touch “Previous Destinations” 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.

“Delete”: To delete the previous destination. (To delete previous destinations, see page 117.)

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 70.)

INFORMATION

- If there is no match for the telephone number inputted, a list of identical numbers with different area codes will be displayed.
- To set an address book entry as a destination using the phone number, the number must already be registered. (See page 111.)

INFORMATION

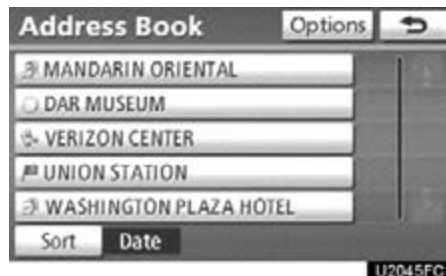
The list of previous destinations can also be deleted by touching “Delete Previous Dest.” on the “Navigation Settings” screen when the vehicle is stopped. (See “ — Deleting previous destinations” on page 117.)

DESTINATION SEARCH

— Destination search by “Address Book”

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

A list of registered address book entries is displayed.



3. Touch the button of the desired address book entry.

“Options”: To register or edit address book. (See page 106.)

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 70.)

— Destination search by “Emergency”

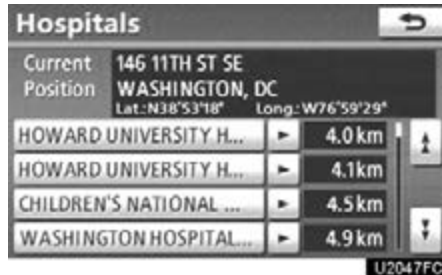
1. Push the “DEST” button.
2. Touch “Emergency” on the second page of the “Destination” screen.

The display changes to a screen to select police stations, dealers, hospitals or fire stations. While driving, only nearby police stations, dealers, hospitals, or fire stations are shown. The current position is shown with an address, and the latitude and the longitude at the top of the screen.



3. Touch the desired emergency category.

The selected emergency category list is displayed.



4. Touch the button of the desired destination.

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 70.)

INFORMATION

The navigation system does not guide in areas where route guidance is unavailable. (See page 307.)

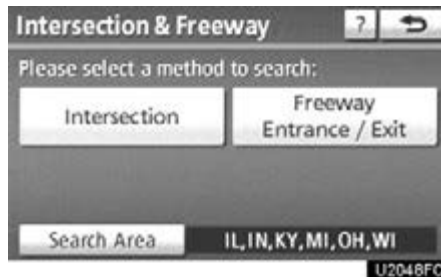
— Destination search by “Intersection & Freeway”

There are 2 ways to search.

- (a) Search by intersection
- (b) Search by Freeway Entrance/Exit

1. Push the “DEST” button.

2. Touch “Intersection & Freeway” on the second page of the “Destination” screen.



3. Touch the button for the desired method.

DESTINATION SEARCH

(a) Search by "Intersection"

1. Push the "DEST" button.
2. Touch "Intersection & Freeway" on the second page of the "Destination" screen.
3. Touch "Intersection" on the "Intersection & Freeway" screen.



4. Input the name of the first intersecting street which are located near the destination to be set.
5. Touch "OK".



6. Touch the button of the desired item.

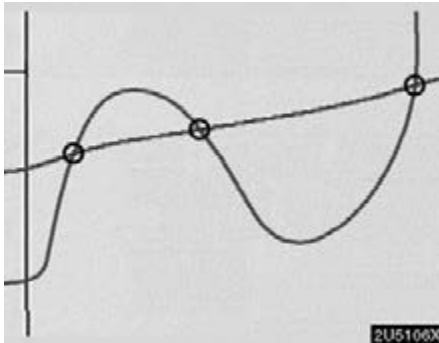


7. Input the name of the second intersecting street.



8. 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 route preference. (See "Starting route guidance" on page 70.)



If the same two streets cross at more than one intersection, the screen changes and displays the menu to select the city name where the streets intersect. Select the city, and the map location of the selected destination and the route preference. (See "Starting route guidance" on page 70.)

(b) Search by "Freeway Entrance/Exit"

1. Push the "DEST" button.
2. Touch "Intersection & Freeway" on the second page of the "Destination" screen.
3. Touch "Freeway Entrance/Exit" on the "Intersection & Freeway" screen.



4. To input a freeway name.

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



5. Select the desired freeway by touching the button.

DESTINATION SEARCH



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



7. To input a freeway entrance or exit name.
8. Touch “OK”.



9. Touch the button of the desired entrance or exit name.

The screen changes and displays the map location of the selected destination and the route preference. (See “Starting route guidance” on page 70.)

— Destination search by “Map”

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



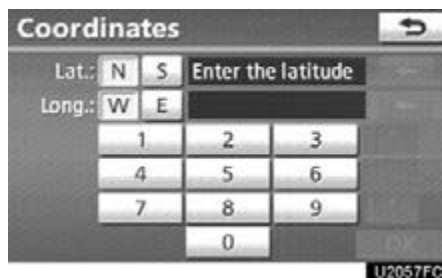
The screen changes and displays the map location that was previously displayed just before the destination input operation and the route preference. (See “Starting route guidance” on page 70.)

INFORMATION

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

— 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 route preference. (See “Starting route guidance” on page 70.)

— Deleting set destinations

A set destination can be deleted.

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

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



3. Touch the destination for deletion.

“Select All”: To select all destinations on the list.

“Unselect All”: To unselect all of the selected destinations.

4. Touch “Delete”.



A message appears to confirm the request to delete.

5. 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.

DESTINATION SEARCH

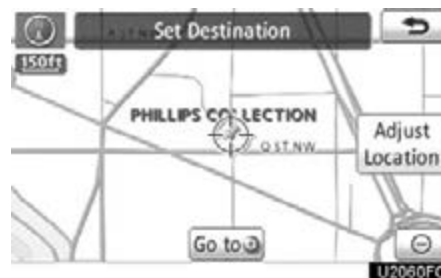
The system searches for the guidance route again, and displays the entire route.

INFORMATION

Set destinations can also be deleted by touching "Route". (See " — Deleting destinations" on page 83.)

Starting route guidance

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



1. Scroll the map to the desired point.

"Adjust Location": To adjust the position in smaller increments.



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 "Go to" with a target icon.

The system starts route search and displays recommended routes.

If there is already a set destination, **"Go to" with a target icon** and **"Add to Route"** are displayed.

"Go to" with a target icon: To delete the existing destinations and set a new one.

"Add to Route": To add a destination.

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



- 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 "OK".

"Turn List": The following screen displays the list of the roads up to the destination.

"3 Routes": To select the desired route from 3 possible routes. (See page 72.)

"Edit Route": To change the route. (See page 73.)

INFORMATION

- Guidance can be paused or resumed. (See "— Pausing and resuming guidance" on page 89.)
- If "OK" 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 0.5 miles (800 m), the map scale changes to 0.5 miles (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 incorrect information.

DESTINATION SEARCH

3 ROUTES SELECTION



1. To select the desired route from 3 routes, touch "3 Routes".



2. Touch "Quick", "Alt." or "Short" to select the desired route.

"Quick": Recommended route.

This route is indicated by an orange line.

"Alt.": 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.

3 Routes Info.			
	Quick	Alt.	Short
1	5h30 min	6h26 min	5h35 min
2	296 miles	346 miles	290 miles
3			
4	284 miles	333 miles	267 miles
5			

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

● **Edit route**

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



INFORMATION

- *Even if the “Freeways” 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.*

Touch “Edit Route”.



“**Add**”: To add destinations. (See page 82.)

“**Delete**”: To delete destinations. (See page 83.)

“**Reorder**”: To reorder destinations. (See page 82.)

“**Preferences**”: A number of choices are provided on the conditions which the system uses to determine the route to the destination. (See page 87)

DESTINATION SEARCH

SECTION 3

ROUTE GUIDANCE

- Route guidance screen 76
- Typical voice guidance prompts 79
- Distance and time to destination 81
- **Setting and deleting destinations** 82
 - Adding destinations 82
 - Reordering destinations 82
 - Deleting destinations 83
- **Setting route** 84
 - Detour setting 84
 - Route overview 85
 - Route preference 87
 - Pausing and resuming guidance 89
- **Show on map** 90
 - Display POI icons 90
 - Route trace 94
- XM® NavTraffic 96

*: 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.

- **During freeway driving**

During freeway driving, the freeway exit information screen will be displayed.

This screen displays the distance to the next junction and exit, or POIs in the vicinity of the freeway exit.



- 1 Current position
- 2 Points of Interest that are close to a freeway exit
- 3 Exit number and junction name
- 4 Distance from the current position to the exit or junction
- 5 Current street name

"Map": To display the selected map of the exit vicinity.

▲ : To scroll for farther junctions or exits.

▼ : To scroll for closer junctions or exits.

🔄 : To scroll for the closest 3 junctions or exits.

- **When approaching a freeway exit or junction**

When the vehicle approaches an exit or junction, the guidance screen for the freeway will be displayed.



- 1** Next street name
- 2** Distance from the current position to the exit or junction
- 3** Current position

“Off”: The guidance screen on freeway disappears and the map screen appears.

When touching  **Intersection** or pushing the “MAP/VOICE” button, the guidance screen on freeway reappears.

- **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  **Intersection** or pushing the “MAP/VOICE” button, the intersection guidance screen reappears.

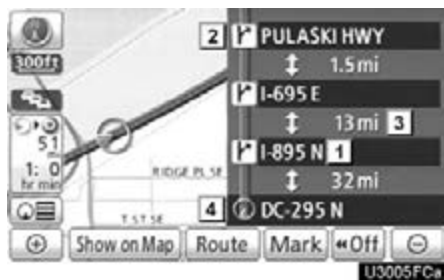
ROUTE GUIDANCE

- Other screens

TURN LIST SCREEN

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

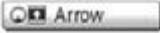
Touching  during guidance displays the turn list.

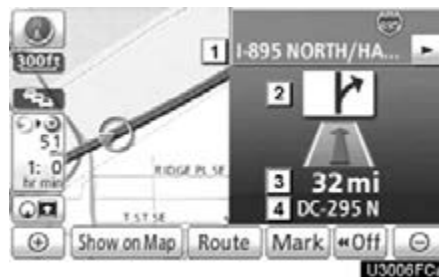


- 1 Next street name or destination name
- 2 Turn direction
- 3 Distance between turns
- 4 Current street name

ARROW SCREEN

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

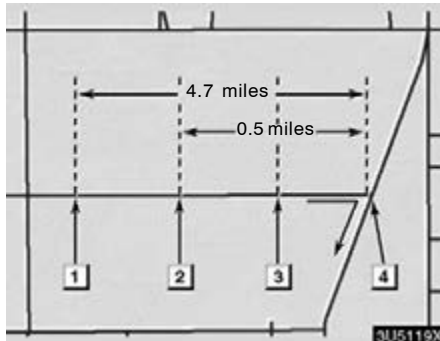
Touching  during guidance displays the arrow screen.



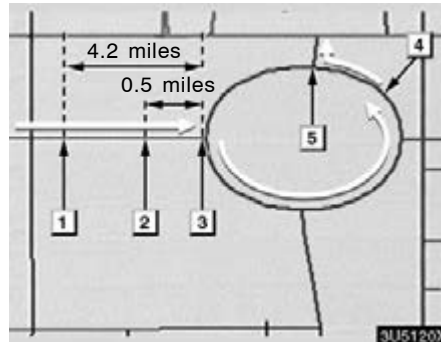
- 1 Exit number, street name containing number or next street name
- 2 Turn direction
- 3 Distance to the next turn
- 4 Current street name

Typical voice guidance prompts

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



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

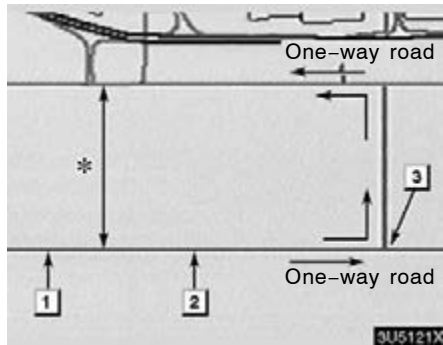


- 1 "Proceed about 4 miles to the traffic circle."
- 2 "In half of a mile, traffic circle ahead, and then 3rd exit ahead onto Main street."
- 3 "The 3rd exit ahead."
- 4 "The exit ahead."
- 5 (Beep sound only)

INFORMATION

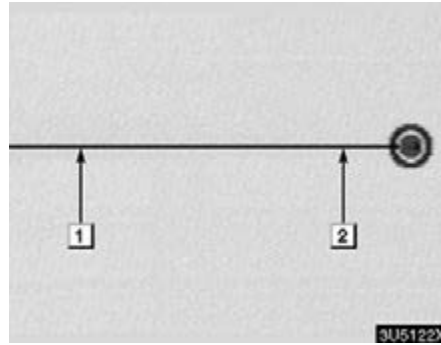
- The street names may not be pronounced correctly or clearly due to text-to-speech function.
- On freeways, interstates or other highways with higher speed limits, the voice guidance will be made at earlier points than on city streets in order to allow time to maneuver.

ROUTE GUIDANCE



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

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



The system announces 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 "● Voice volume" on page 243.*

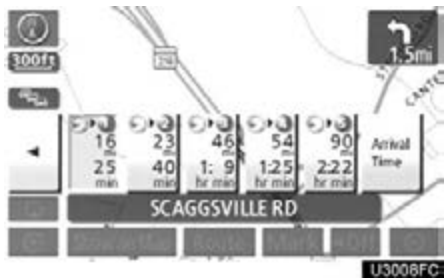
Distance and time to destination



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.



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.

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 247.) However, when the vehicle is not on the guidance route, the distance is the linear distance between the current position and the destination.

ROUTE GUIDANCE

Setting and deleting destinations — — Adding destinations

You can add destinations and search again for the routes.



1. Touch "Route".



2. Touch "Add".

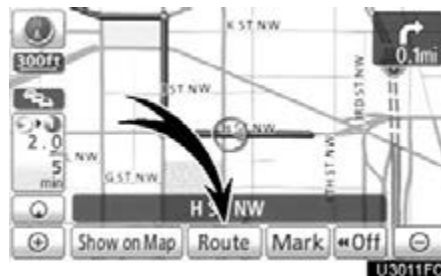
3. Input an additional destination in the same way as the destination search. (See "Destination search" on page 50.)



4. Touch the desired "Add Destination Here" 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 desired destination and press "Move Up" or "Move Down" to change the arrival order.

4. Touch "OK".

5. After selecting the destinations, touch "OK".

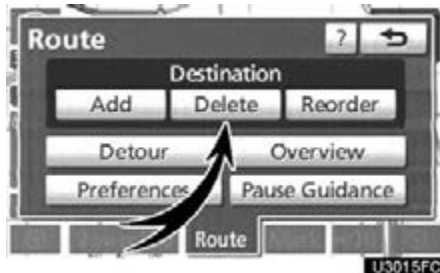
The system searches for the guidance route again, and displays the entire route.

— Deleting destinations

A set destination can be deleted.

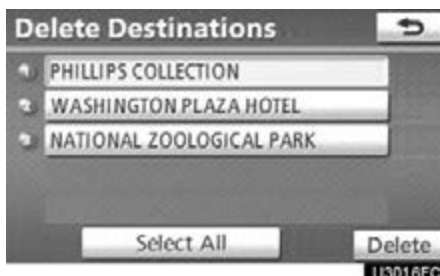


1. Touch "Route".



2. Touch "Delete".

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



3. Touch the destination for deletion.

"Select All": To select all destinations on the list.

"Unselect All": To unselect all of the selected destinations.

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.

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

ROUTE GUIDANCE

Setting route — — 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".



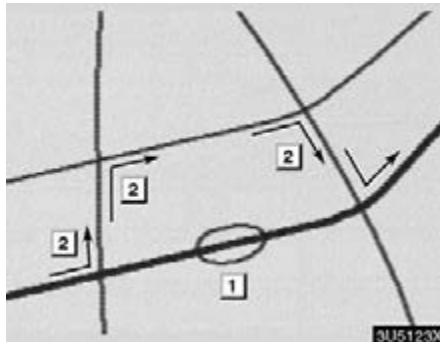
3. Select the button below to select the desired detour distance.

"1 mile (km)", "3 miles (km)" or "5 miles (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.

"Around Traffic": If you touch this button, the system will search for the route based on the traffic congestion information received from XM® NavTraffic. For details, see "XM® NavTraffic" on page 96.

— Route overview



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

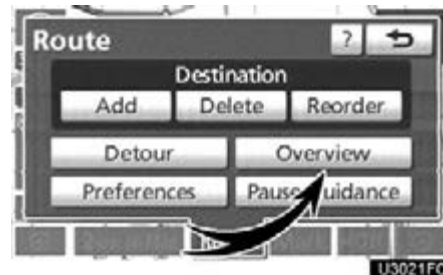
- 1 This position indicates the location of a traffic jam caused by road repairs or an accident.
- 2 This route indicates the detour suggested by the system.

INFORMATION

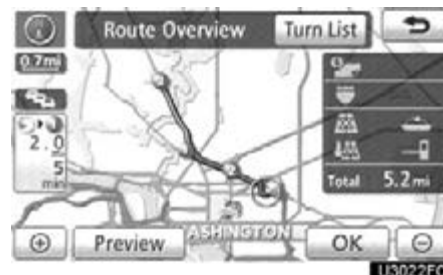
- When your vehicle is on a freeway, the detour distance selections are 5, 15, and 25 miles (km).
- The system may not be able to calculate a detour route depending on the selected distance and surrounding road conditions.



1. Touch "Route".



2. Touch "Overview".



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

"OK": To start guidance.

"Turn List": The following screen displays the list of the roads up to the destination.

"Preview": To preview the route.

ROUTE GUIDANCE



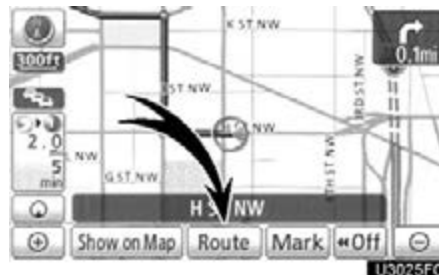
You can scroll through the list of roads by touching  or . However, not all road names in the route may appear on the list. If a road changes its name without requiring a turn (such as on a street that runs through two or more cities), the name change will not appear on the list. The street names will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

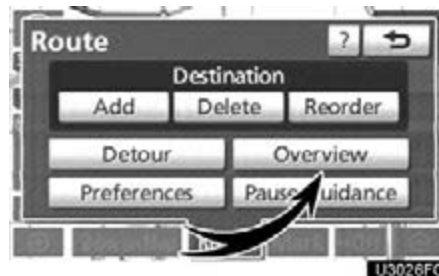
Touch "Map" on the "Turn List" screen. The point which you choose is displayed on the map screen.



• Route preview



1. Touch "Route".



2. Touch "Overview".



3. Touch "Preview".

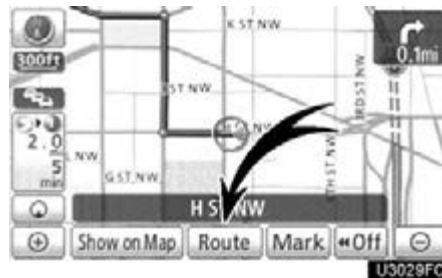


-  : To indicate the next destination.
-  : To preview the route to the next destination.
-  : To preview the route to the next destination in fast-forward mode.
-  : To stop the preview.
-  : To review the route to the previous destination or starting point.
-  : To review the route to the previous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

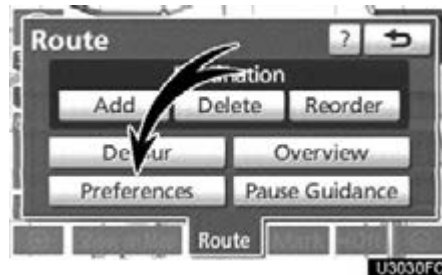
— Route preference

• To select route type

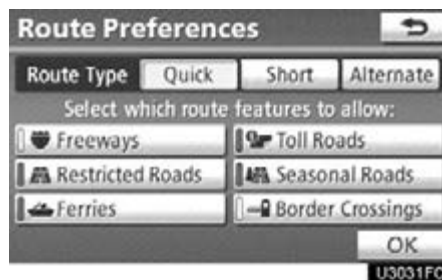
You can designate the route conditions of the route to the destination.



1. Touch "Route".



2. Touch "Preferences".



3. Touch "Quick", "Short" or "Alternate" and touch "OK".

ROUTE GUIDANCE



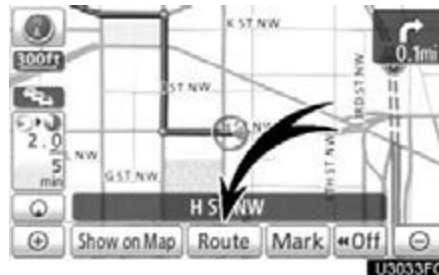
The entire route from the starting point to the destination is displayed.

“OK”: To start guidance.

“Edit Route”: To change a route. (See page 73.)

- **To select route features**

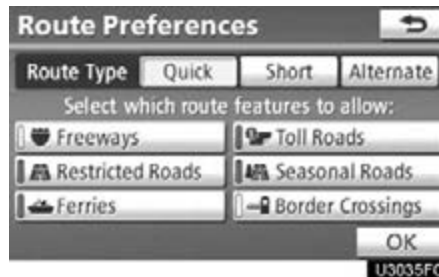
A number of choices are provided on the conditions which the system uses to determine the route to the destination.



1. Touch **“Route”**.



2. Touch **“Preferences”** to change the conditions that determine the route to the destination.



3. Select the desired route 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 route preference, touch **“OK”**.

- **Starting route from adjacent road**

You can start the route guidance from the adjacent road.

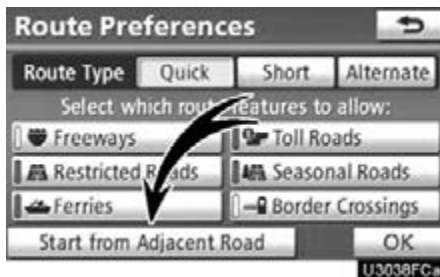
(ex. When route guidance is set on the freeway, but the vehicle is driven parallel along the freeway.)



1. Touch "Route".



2. Touch "Preferences".



3. Touch "Start from Adjacent Road".

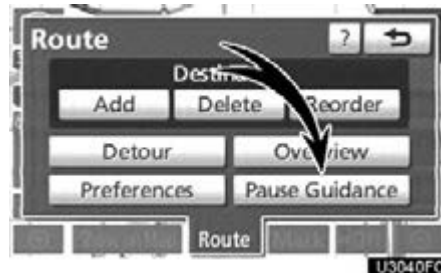
When there is no adjacent road, this button will not be displayed.

— Pausing and resuming guidance

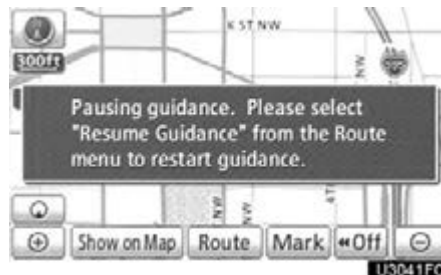
- **To pause guidance**



1. Touch "Route".



2. Touch "Pause Guidance".



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

INFORMATION

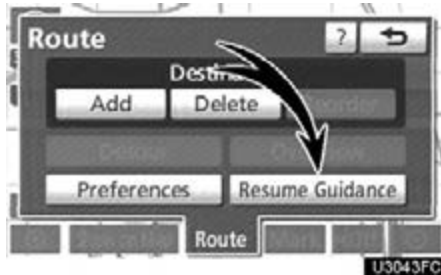
Without route guidance, "Pause Guidance" cannot be used.

ROUTE GUIDANCE

- To resume guidance



1. Touch "Route".



2. Touch "Resume Guidance".



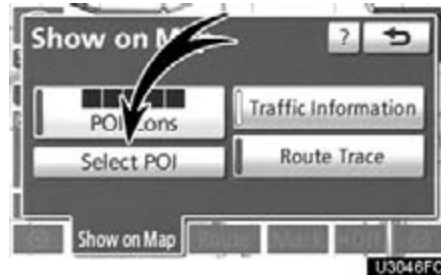
The screen will change to the current position map with route guidance.

Show on map — — Display POI icons

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



1. Touch "Show on Map".



2. Touch "Select POI" to display a particular type of Point of Interest on the screen.

When the Points of Interest to be displayed on the map screen have already been set, "Change POI" is displayed.



A screen with a limited choice of Points of Interest will be displayed. (To change the displayed POI, see page 249.)

● **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 icons on the map screen, touch **“Clear”**.

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

“Find Local POI”: When searching for the nearest Point of Interest, touch this button. Then choose one of the categories. The system will list the points within 200 miles (320 km). (See page 92.)

Touch “Other POIs” on the “Select 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.

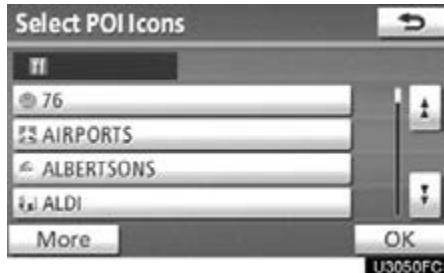


Select the desired POI categories.

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 display the local POI list**

Points of Interest that are within 200 miles (320 km) of the current position will be listed from among the selected categories.



1. Touch “Find Local POI” on the “Select POI Icons” screen.



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

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

“Near...”: To search for Points of Interest near the current position or along the route.



“Near Here” : When **“Near Here”** is touched, the list of Points of Interest near the current position will be displayed.

“Along My Route” : When **“Along My Route”** is touched, the list of Points of Interest along the route will be 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 centered 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”.**

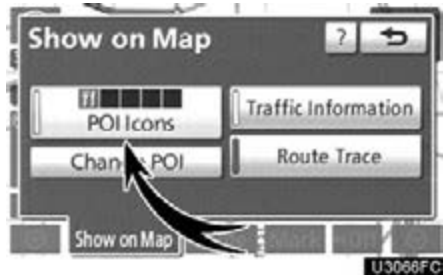
The screen changes and displays the map location of the selected destination and route preference. (See “Starting route guidance” on page 70.)

ROUTE GUIDANCE

- To hide POI icons



1. Touch "Show on Map".



2. Touch "POI Icons".

The "POI Icons" indicator is dimmed.

The map screen will be displayed with the POI icons hidden.

To display the POI icons again, touch "POI Icons" on the "Show on Map" screen.

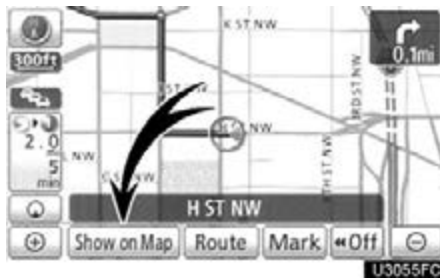
— Route trace

It is possible to store the traveled route up to 124 miles (200 km) and retrace the route on the display.

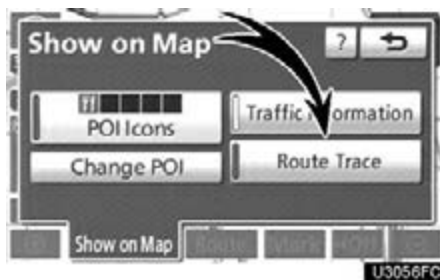
INFORMATION

This feature is available on the map with more detailed map scale than 30 mile (50 km).

- To start recording the route trace



1. Touch "Show on Map".

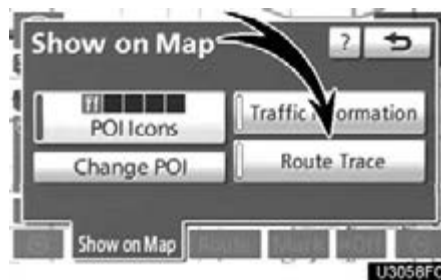


2. Touch "Route Trace".
"Route Trace" indicator is highlighted.

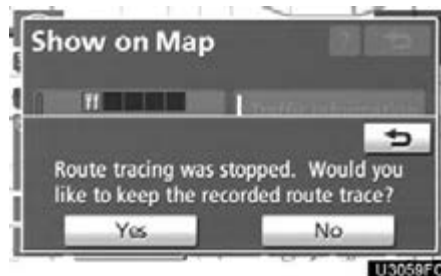
- To stop recording the route trace



1. Touch "Show on Map".



2. Touch "Route Trace". The following screen will be displayed.



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

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

XM® NavTraffic

The XM® NavTraffic service that allows the navigation system to display traffic information on the map is available if your satellite radio tuner can receive traffic information.

To receive the XM® NavTraffic service, a subscription to the XM® Satellite Radio with NavTraffic is necessary.

The XM® NavTraffic is available in the contiguous 48 U.S. states and some Canadian cities. For details about the XM® NavTraffic service coverage area, refer to www.xmradio.com (U.S.A.) or www.xmradio.ca (CANADA).

- How to activate the XM® NavTraffic service

To receive the XM® NavTraffic service, it is necessary to activate the service. To activate the service, an extra fee is required in addition to subscription fees for the XM® Satellite Radio. For details about service and activation, call XM® Listener Care Center at 1-800-967-2346 (U.S.A.) or 1-877-438-9677 (CANADA).

Customers should have their radio ID ready; the radio ID can be found by selecting "channel 000" on the radio. For details, see "(b) Displaying the radio ID" on page 155.

XM® Satellite Radio has the responsibility for all fees and service, they are subject to change.

The following operations can be performed.

- **Show XM® NavTraffic Information**

Traffic information is displayed on the map. (See page 97.)

- **Auto Avoid Traffic**

If any heavy congestion or moderate traffic has been detected on the guidance route, it may be possible for you to select another route offered by the system. (See page 248.)

- **Traffic Voice Guidance**

Traffic information is provided using voice guidance. (See page 244.)

- **Show Free Flowing Traffic**

Freely flowing traffic is shown by the arrow on the map. (See page 249.)

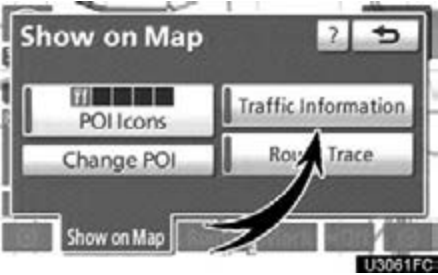
INFORMATION

- *Traffic voice guidance is available only in English. To select English, see "● Selecting a language" on page 237.*
- *When the "Traffic Information" indicator is dimmed, "Auto Avoid Traffic", "Traffic Voice Guidance" and "Show Free Flowing Traffic" will not operate.*

● Show XM® NavTraffic information



1. Touch “Show on Map”.



2. Touch “Traffic Information”.
“Traffic Information” indicator is high-
lighted.

XM® NavTraffic information is displayed
on the map.



► On Map screen



► On Freeway information screen

1 XM® NavTraffic icon

When any traffic information has been received, the XM® NavTraffic icon will appear on the map screen. Touching the XM® NavTraffic icon on the screen will start voice guidance for the traffic information. (See page 38.)

INFORMATION

When the XM® NavTraffic icon is touched, voice guidance for the traffic information will start even if "Off" for "Traffic Voice Guidance" is selected.

2 XM® NavTraffic information arrow

When any XM® NavTraffic information has been received, the XM® NavTraffic information arrow will appear on the map screen. The color of the arrow changes depending on the traffic information received.

"Orange": Heavy congestion

"Yellow": Moderate traffic

"Green": Freely flowing traffic

3 XM® NavTraffic indicator

When any XM® NavTraffic information has been received, the XM® NavTraffic indicator will appear on the screen. The color of the indicator changes depending on the traffic information received.

"White": Traffic information has been received.

"Yellow": Traffic restriction information on the guidance route has been received (touch switch*).

"Orange": Congestion information on the guidance route has been received (touch switch*).

*: Touching the XM® NavTraffic indicator will start voice guidance.

SECTION 4

MY PLACES

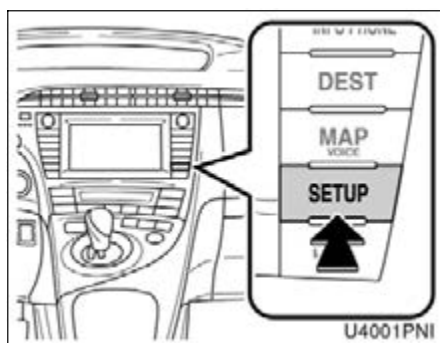
- **Navigation settings** 100
 - Setting up the “Home” 101
 - Setting up the “Preset Destinations” 103
 - Setting up the “Address Book” 106
 - Setting up the “Areas to Avoid” 112
 - Deleting previous destinations 117

Navigation settings —

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 52, “ — Destination search by Preset destinations” on page 52 and “ — Destination search by “Address Book”” on page 64.)

Registered areas are avoided at the time of route search.



1. Push the “SETUP” button.



2. Touch “Navi.”.



On this screen, the following operations can be performed.

No.	Function
1	Sets home (See page 101.)
2	Sets preset destinations (See page 103.)
3	Sets address book (See page 106.)
4	Sets area to avoid (See page 112.)
5	Deletes previous destinations (See page 117.)
6	Detailed navigation settings (See page 245.)

— Setting up the “Home”

If home has been registered, that information can be recalled by using the “Go Home” touch screen button on the “Destination” screen. (See “— Destination search by Home” on page 52.)

1. Push the “SETUP” button.
2. Touch “Navi.” on the “Setup” screen.



3. Touch “Home”.



- Registering home (See page 101.)
- Editing home (See page 102.)
- Deleting home (See page 103.)

(a) Registering home

1. Push the “SETUP” button.
2. Touch “Navi.” on the “Setup” screen.
3. Touch “Home” on the “Navigation Settings” screen.



4. Touch “Set Home”.



5. Enter the location in the same way as for a destination search. (See “Destination search” on page 50.)

MY PLACES

When registration of home is completed, the "Edit Home" screen will be displayed.



6. Touch "OK".

To edit registered information, see "(b) Editing home" on page 102.

(b) Editing home

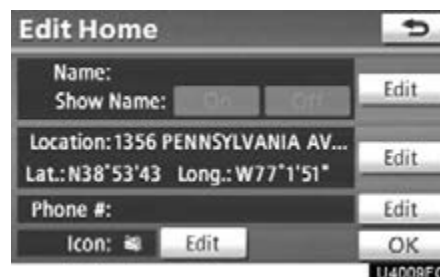
1. Push the "SETUP" button.

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

3. Touch "Home" on the "Navigation Settings" screen.



4. Touch "Edit".



5. Touch "Edit" for the item you want to change.

"Name": To edit home name. The names can be displayed on the map. (See page 110.)

"Location": To edit location information. (See page 111.)

"Phone #": To edit telephone numbers. (See page 111.)

"Icon": To select icons to be displayed on the map. (See page 109.)

6. Touch "OK".

(c) Deleting home

1. Push the **"SETUP"** button.
2. Touch **"Navi."** on the **"Setup"** screen.
3. Touch **"Home"** on the **"Navigation Settings"** screen.

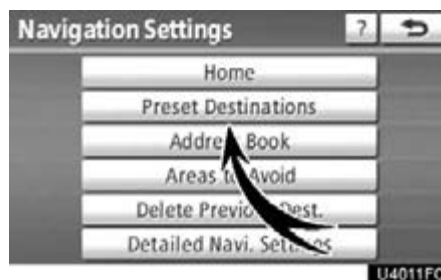


4. Touch **"Delete"**.
5. To delete home, touch **"Yes"**. To cancel the deletion, touch **"No"**.

— Setting up the "Preset Destinations"

If preset destination has been registered, that information can be recalled by using the **"Preset Destination"** touch screen button on the **"Destination"** screen. (See **"— Destination search by Preset Destinations"** on page 52.)

1. Push the **"SETUP"** button.
2. Touch **"Navi."** on the **"Setup"** screen.



3. Touch **"Preset Destinations"**.



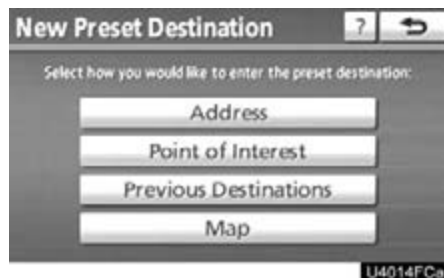
- Registering preset destination (See page 104.)
- Editing preset destination (See page 105.)
- Deleting preset destination (See page 106.)

(a) Registering preset destinations

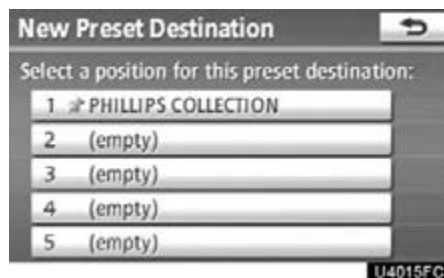
1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.
3. Touch "Preset Destinations" on the "Navigation Settings" screen.



4. Touch "Set".

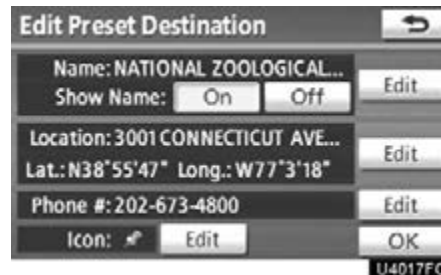


5. Enter the location in the same way as for a destination search. (See "Destination search" on page 50.)



6. Select a position for this preset destination.

When registration of preset destination is completed, the "Edit Preset Destination" screen will be displayed.



7. Touch "OK".

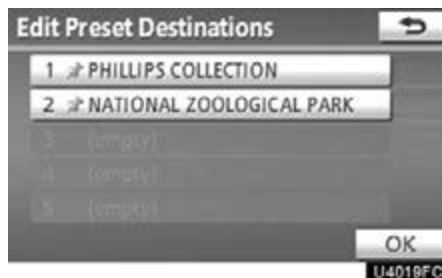
To edit registered information, see "(b) Editing preset destinations" on page 105.

(b) Editing preset destinations

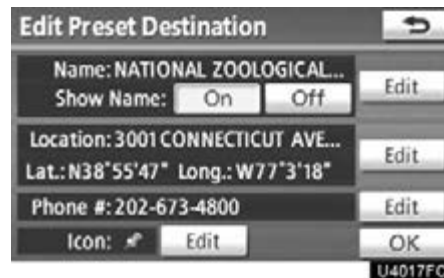
1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.
3. Touch "Preset Destinations" on the "Navigation Settings" screen.



4. Touch "Edit".



5. Touch the button of the desired preset destination.



6. Touch "Edit" for the item you want to change.

"Name": To edit preset destination names. The names can be displayed on the map. (See page 110.)

"Location": To edit location information. (See page 111.)

"Phone #": To edit telephone numbers. (See page 111.)

"Icon": To select icons to be displayed on the map. (See page 109.)

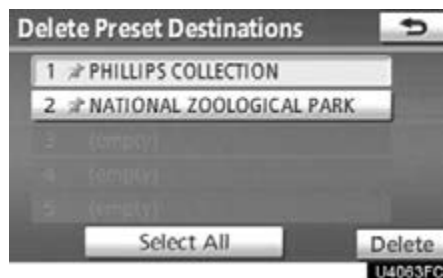
7. Touch "OK".

(c) Deleting preset destinations

1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.
3. Touch "Preset Destinations" on the "Navigation Settings" screen.



4. Touch "Delete".



5. Touch the preset destination for deletion.

"Select All": To select all preset destinations on the list.

"Unselect All": To unselect all of the selected preset destinations.

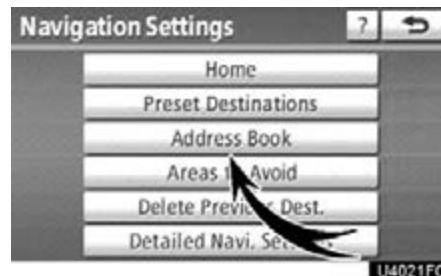
6. Touch "Delete".

7. To delete preset destination, touch "Yes". To cancel the deletion, touch "No".

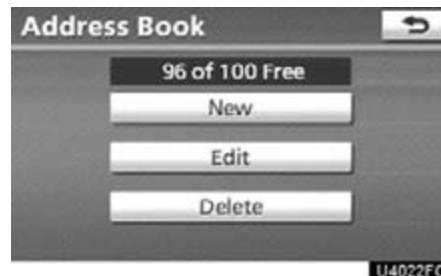
— Setting up the "Address Book"

Points or areas on the map can be registered.

1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.

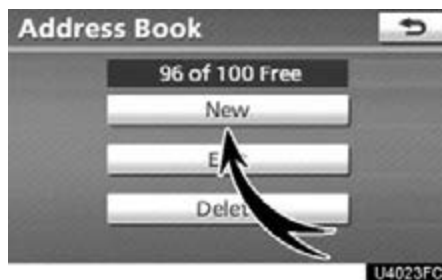


3. Touch "Address Book".

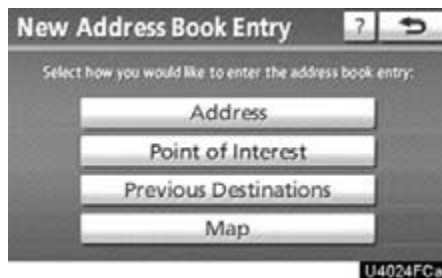


- Registering address book entries (See page 107.)
- Editing address book entries (See page 108.)
- Deleting address book entries (See page 112.)

- (a) Registering address book entries
1. Push the "SETUP" button.
 2. Touch "Navi." on the "Setup" screen.
 3. Touch "Address Book" on the "Navigation Settings" screen.

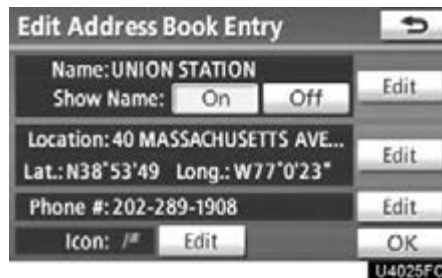


4. Touch "New".



5. Enter the location in the same way as for a destination search. (See "Destination search" on page 50.)

After the address book entry has been registered, the "Edit Address Book Entry" screen will be displayed.



6. Touch "OK".

To edit registered information, see "(b) Editing address book entries" on page 108.

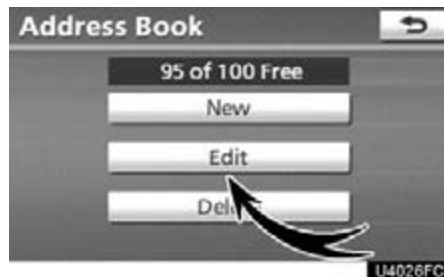
INFORMATION

Up to 100 address book entries can be registered.

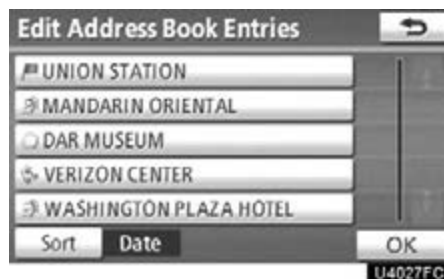
(b) Editing address book entries

The icon, name, location and/or telephone number of a registered address book entry can be edited.

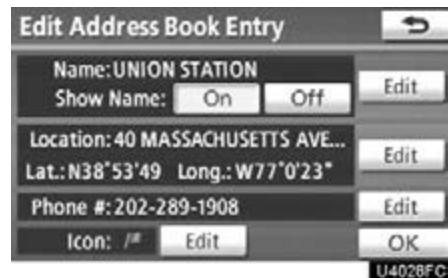
1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.
3. Touch "Address Book" on the "Navigation Settings" screen.



4. Touch "Edit".



5. Touch the button of the desired address book entry.



6. Touch "Edit" for the item you want to change.

"Name": To edit address book entry names. The names can be displayed on the map. (See page 110.)

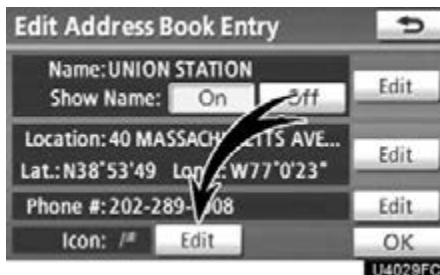
"Location": To edit location information. (See page 111.)

"Phone #": To edit telephone numbers. (See page 111.)

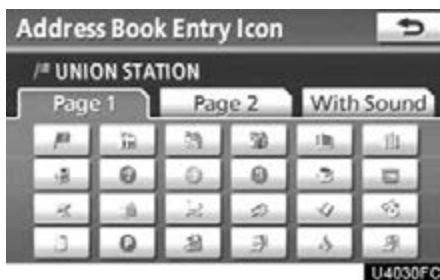
"Icon": To select icons to be displayed on the map. (See page 109.)

7. Touch "OK".

- To change "Icon"



1. Touch "Edit" of "Icon".



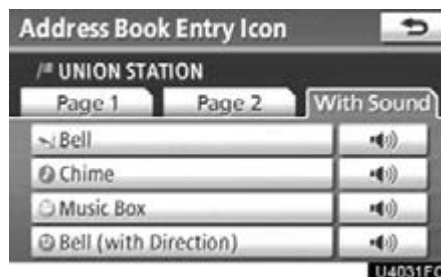
2. Touch the desired icon.

Change pages by touching "Page 1", "Page 2" or "With Sound" tab.

SOUND ICONS

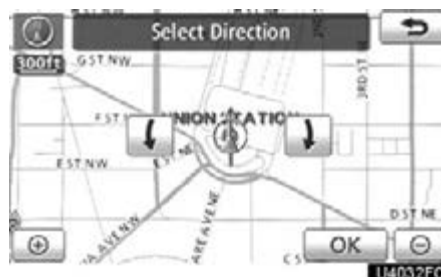
You can set a sound for some address book entries. When the vehicle approaches the location of the address book entry, the selected sound will be heard.

1. Touch "With Sound" on the "Address Book Entry Icon" screen.



2. Touch the desired sound icon.

The next screen appears when "Bell (with Direction)" is touched.

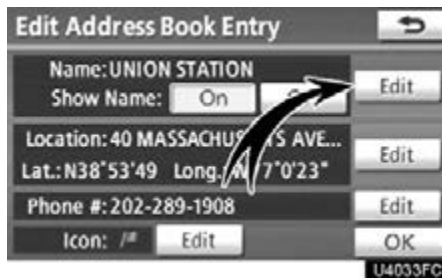


Touch either  or  to adjust the direction. Touch "OK".

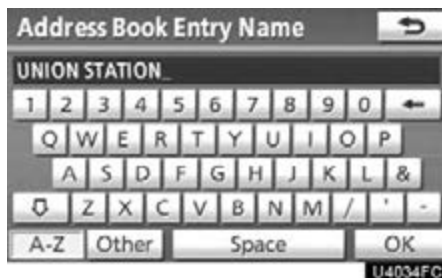
The bell sounds only when the vehicle approaches this point in the direction that has been set.

MY PLACES

- To change “Name”



1. Touch “Edit” of “Name”.



2. Enter the name using the alphanumeric keys.

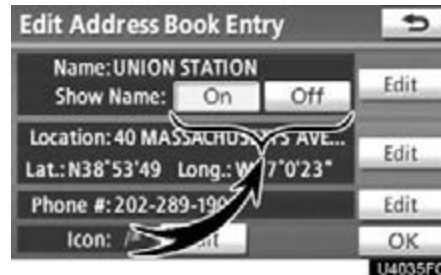
Up to 32 characters can be entered.

3. Touch “OK”.

The previous screen will be displayed.

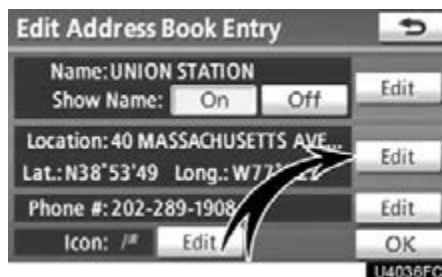
DISPLAYING MEMORY POINT NAMES

The name of an address book entry can be set to display on the map.



To show the name, touch “On” on the “Edit Address Book Entry” screen. To not show it, touch “Off”.

- To change "Location"



1. Touch "Edit" of "Location".

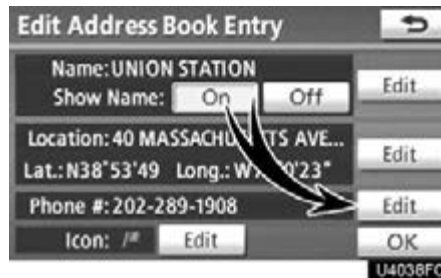


2. Touch one of the 8 directional touch screen buttons to move the cursor to the desired point on the map.

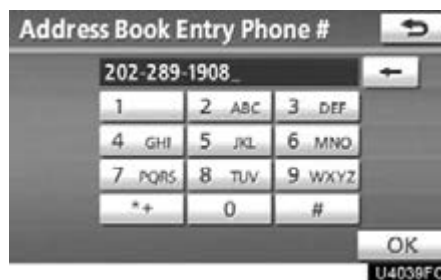
3. Touch "OK".

The previous screen will be displayed.

- To change "Phone #" (telephone number)



1. Touch "Edit" of "Phone #".



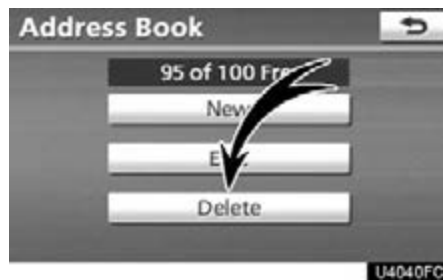
2. Enter the number using number keys.

3. Touch "OK".

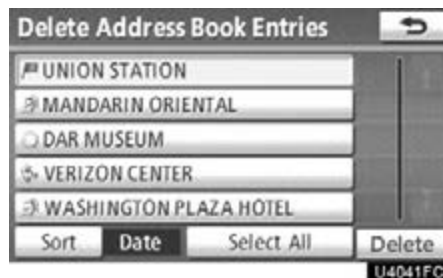
The previous screen will be displayed.

(c) Deleting address book entries

1. Push the “SETUP” button.
2. Touch “Navi.” on the “Setup” screen.
3. Touch “Address Book” on the “Navigation Settings” screen.



4. Touch “Delete”.

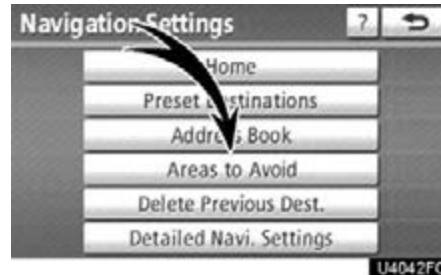


5. Touch the button to be deleted.
 “Select All”: To select all addresses in the address book.
 “Unselect All”: To unselect all of the selected addresses.
6. Touch “Delete”.
7. To delete the address book entry, touch “Yes”. To cancel the deletion, touch “No”.

— Setting up the “Areas 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 “SETUP” button.
2. Touch “Navi.” on the “Setup” screen.



3. Touch “Areas to Avoid”.



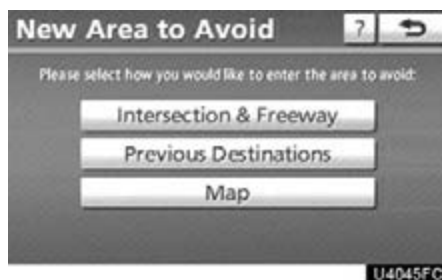
- Registering areas to avoid (See page 113.)
- Editing areas to avoid (See page 114.)
- Deleting areas to avoid (See page 117.)

(a) Registering areas to avoid

1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.
3. Touch "Areas to Avoid" on the "Navigation Settings" screen.



4. Touch "New".



5. 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 50.)



6. Scroll the map to the desired point. "Adjust Location": To adjust the position in smaller increments.

7. Touch "Enter".



8. Touch either  or  to change the size of the area to be avoided.

9. 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.

(b) Editing area to avoid

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

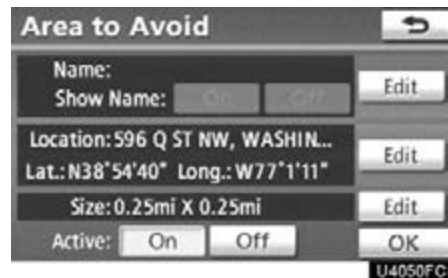
1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.
3. Touch "Areas to Avoid" on the "Navigation Settings" screen.



4. Touch "Edit".



5. Touch the desired area button.



6. Touch "Edit" for the item you want to change.

"Name": To edit the name of the area to avoid. The names can be displayed on the map. (See page 115.)

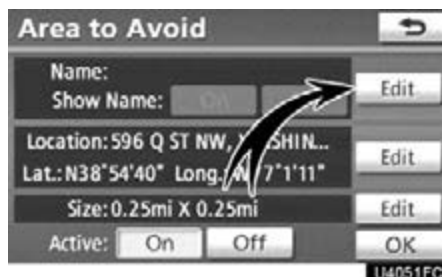
"Location": To edit area location. (See page 116.)

"Size": To edit area size. (See page 116.)

"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.

7. Touch "OK".

- To change "Name"



1. Touch "Edit" of "Name".



2. Enter the name using alphanumeric keys.

Up to 32 characters can be entered.

3. Touch "OK".

The previous screen will be displayed.

DISPLAYING NAMES OF AREAS TO BE AVOIDED

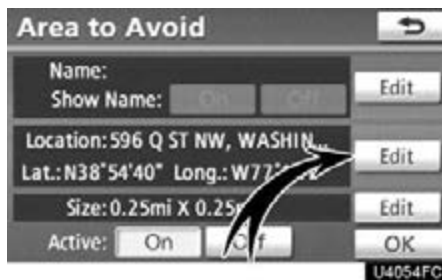
The name of an area to be avoided that may be displayed on the map can be set.



To show the name, touch "On" on the "Area to Avoid" screen. To not show it, touch "Off".

MY PLACES

- To change “Location”



1. Touch “Edit” of “Location”.

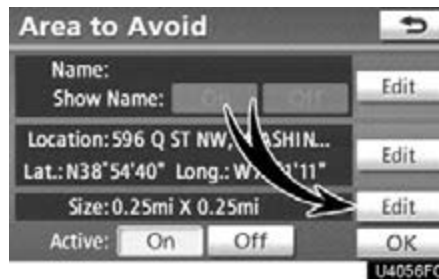


2. Touch the 8 directional touch screen button to move the cursor  to the desired point on the map.

3. Touch “OK”.

The previous screen will be displayed.

- To change “Size”



1. Touch “Edit” of “Size”.



2. Touch either  or  to change the size of the area to be avoided.

3. Touch “OK”.

The previous screen will be displayed.

(c) Deleting areas to avoid

1. Push the **"SETUP"** button.
2. Touch **"Navi."** on the **"Setup"** screen.
3. Touch **"Areas to Avoid"** on the **"Navigation Settings"** screen.



4. Touch **"Delete"**.



5. Touch the button to be deleted.

"Select All": To select all registered areas to avoid in the system.

"Unselect All": To unselect all registered areas to avoid in the system.

6. Touch **"Delete"**.

7. To delete the area, touch **"Yes"**. To cancel the deletion, touch **"No"**.

— Deleting previous destinations

The previous destination can be deleted.

1. Push the **"SETUP"** button.
2. Touch **"Navi."** on the **"Setup"** screen.



3. Touch **"Delete Previous Dest."**.



4. Touch the button you want to delete.

"Select All": To select all previous destinations in the system.

"Unselect All": To unselect all previous destinations in the system.

5. Touch **"Delete"**.

MY PLACES



6. To delete the destination, touch "Yes". To cancel the deletion, touch "No".

SECTION 5

TELEPHONE AND INFORMATION

- **Telephone (Hands-free system for cellular phone) 120**
 - Enter a Bluetooth® phone 124
 - Call on the Bluetooth® phone 129
 - Receive on the Bluetooth® phone 136
 - Talk on the Bluetooth® phone 136
- **Calendar 139**

Telephone (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.

The operating procedure of the phone is explained here.

For registering and setting of the phone, see "Telephone settings" on page 254.



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.

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.*
- *Even if your cellular phone supports both hands-free and audio Bluetooth® connections, it may not be able to connect to the hands-free connection at the same time.*
- *When using Bluetooth® audio and hands-free at the same time, the following problems may occur.*
 - *The Bluetooth® connection may be cut.*
 - *Noise may be heard on the Bluetooth® audio playback.*



Bluetooth is a registered trademark of Bluetooth SIG, Inc.

INFORMATION

This system supports the following service.

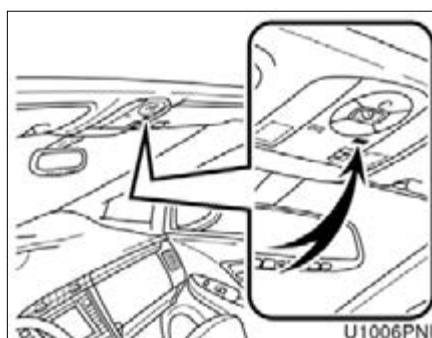
- **Bluetooth® Specification**
Ver.1.1 or higher
(Recommended: Ver.2.0+EDR or higher)
- **Profiles**
 - **HFP (Hands Free Profile)**
Ver.1.0 or higher
(Recommended: Ver.1.5 or higher)
 - **OPP (Object Push Profile)**
Ver.1.1
 - **PBAP (Phone Book Access Profile)** Ver.1.0

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

Please go to “<http://www.toyota.lets-talk.com/>” to find approved Bluetooth® phones for this system.



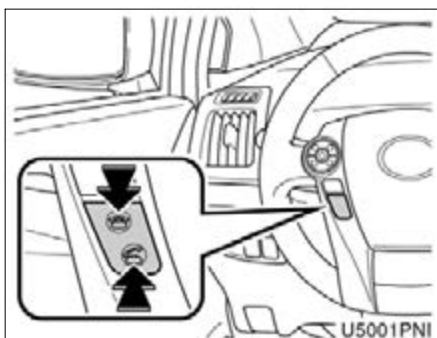
► Type A



► Type B

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

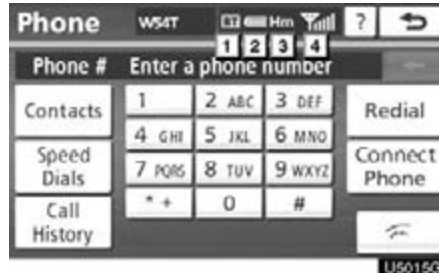
The other party's voice outputs from the front speaker. When the received calls or received voice outputs, the audio from the audio system or voice guidance from the navigation system will be muted.



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

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, an echo will be heard and receiving voice can be heard outside of the vehicle. 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.*
 - *There is an effect from the network of the cellular phone.*



- 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.

  
Empty ←————→ Full

This is not displayed when the Bluetooth® is not connected.

The amount left does not always correspond with the one of your cellular phone. The amount of battery charge left may not be displayed depending on the phone you have. This system doesn't have a charging function.

- 3** Indicates the receiving area.

“Rm” is displayed when receiving in Roaming area.

“Hm” is displayed when receiving in Home area.

The receiving area may not be displayed depending on the phone you have.

4 Indicates the level of reception.



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

The level of reception may not be displayed depending on the phone you have.

When you are out of the service area or in a place inaccessible by radio waves, "No Service" is displayed.

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.

About the phonebook in this system

The following data is stored for every registered phone. When another phone is connecting, you cannot read the registered data.

- Phonebook data
- Voice tag
- All of call history
- Speed dial

When you delete the phone, the above-mentioned data is also deleted.

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 "● Delete personal data" on page 240.)

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
- Call history data
- Speed dial data
- Voice tag data
- Bluetooth® phone data
- Volume setting
- Details setting

FCC ID : HYQDNNS025
Type : DNNS025
IC : 1551A-DNNS025 Canada 310

This device complies with Part 15 of the FCC Rules and RSS-210. Operation is subject to the following two conditions : (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION: Radio Frequency Radiation Exposure

This equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated with at least 20 cm and more between the radiator and person's body (excluding extremities: hands, wrists, feet and legs).

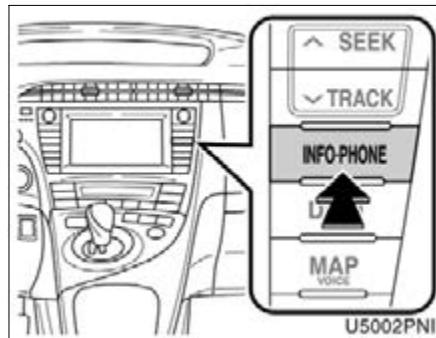
Co-location: This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

— 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.

If you haven't yet registered any Bluetooth® phones, you must first register your phone according to the following procedure.

Please see “● Registering a Bluetooth® phone” on page 256 of additional registration when registering.



1. Push the “INFO-PHONE” button.



2. Touch “Phone”.



3. Touch "Yes" to connect your phone.



4. When this screen is displayed, input the passcode 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".



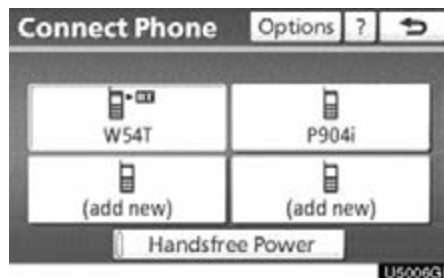
5. When the connection is completed, this screen is displayed.

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



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

- 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.



When the “POWER” switch is in ACCESSORY or ON mode, a nearby cellular phone you have registered is searched for.

Next, the system automatically connects with the latest of the phones connected to in the past.

Then, the connection result is displayed.

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

INFORMATION

It may take time, the phone connection is carried out during Bluetooth® audio play.

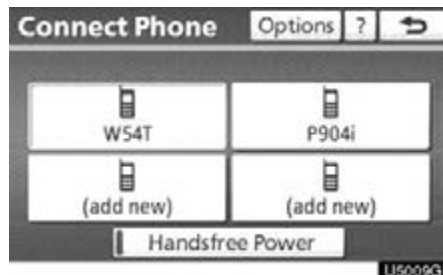
MANUALLY

When the auto connection has failed or “Handsfree power” is turned off, you have to connect Bluetooth® manually.

1. Push the “INFO-PHONE” button.
2. Touch “Phone”.



3. Touch “Connect Phone”.



4. Touch “Handsfree Power”, or select the phone to connect.



5. The “Connect Bluetooth*” screen is displayed.

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



6. When the connection is completed, this screen is displayed.

Now you can use the Bluetooth® phone.

When you connect the phone while Bluetooth® audio is playing



This screen is displayed, and the Bluetooth® audio will stop temporarily.

- Reconnecting the Bluetooth® phone

If the Bluetooth® phone is disconnected with a poor reception from the Bluetooth® network when the “POWER” switch is in ACCESSORY or 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 6 methods described below.

- By dial

You can call by inputting the phone number.

This cannot be operated while driving.

1. Push the “INFO-PHONE” button.

You can also push  of the steering wheel to display the “Phone” screen.



2. Touch “Phone”.



3. Touch the desired key to input the phone number.

Each time you touch , an inputted digit is deleted.

When you touch “Redial”, the number you called last is inputted.

Touch  or push  of the steering wheel.

TELEPHONE AND INFORMATION

- **By phonebook**

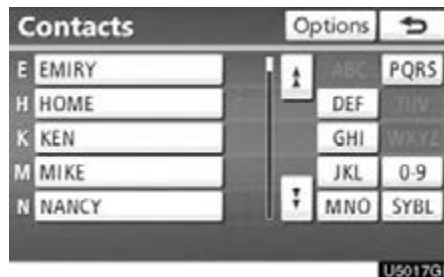
You can call by phonebook data which is transferred from your cellular phone.

The system has one phonebook for each telephone. You can register up to 1000 numbers in total of phonebooks.

This cannot be operated while driving.



1. Touch "Contacts".



2. Select the desired data from the list.



3. Select the desired number from the list.

Touch  or push  of the steering wheel.

When the phonebook is empty



1. Touch "Contacts".



2. Touch "Yes" if you want to transfer new contacts from a cellular phone. Touch "No" if you want to edit the phonebook.

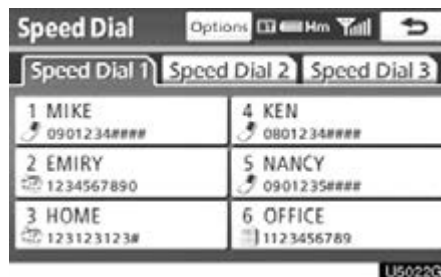
- By speed dial

You can call using registered phone numbers which can be selected from a phonebook. (See "• Registering the speed dial" on page 274 for registering the speed dial.)

This can be done while driving.



1. Touch "Speed Dials".



2. Touch the desired number to call. You can change the page by touching "Speed Dial 2" or "Speed Dial 3" tab.

TELEPHONE AND INFORMATION

- By call history

You can call by call history which has 4 functions below.

All: all the numbers above which were memorized

Missed: calls which you missed

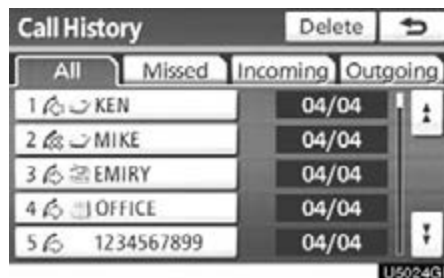
Incoming: calls which you received

Outgoing: numbers which you called

You can call using the latest 5 call history items shown by “All” while driving.

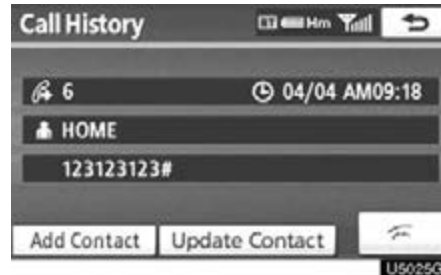


1. Touch “Call History”.



2. Select the desired data from the list.

When the list is switched, touch “All”, “Missed”, “Incoming” or “Outgoing” tab.



3. Touch  or push  of the steering wheel.

You can call using the latest call history item.

1. Push  of the steering wheel to display the "Phone" screen.
2. Push  of the steering wheel to display the "Call History" screen.
3. Push  of the steering wheel to select the latest history item.
4. Touch  or push  of the steering wheel to call the latest history item.

- When you call by phonebook, the name (if registered) is displayed.
- When you call the same number continuously, only the newest number is registered.
- When a phone number registered in the phonebook is received, the name and the number are displayed.
- Unnoticed phone number such as a public phone is not memorized in the system.
- A international phone call may not be made depending on the cellular phone which you have.

- By voice recognition



You can call by giving a command. (For the operation and command of voice recognition, see "Speech command system" on page 44.)

This can be operated while driving.

The "Dial by Name" operating procedure is explained here.

Other operating procedures are also similar.

DIALING BY NAME

You can call by giving a voice tag registered in the phonebook. For setting the voice recognition, see “—Setting the voice tag” on page 281.

When you select “English” of “Language”, you can call by giving a name registered in the phonebook.

For setting the voice recognition, see “● Registering the phonebook data” on page 267.

Example: Call MIKE.



You: Push the talk switch.
System: “After the beep, please say a command.” “Such as “Go Home”, “Destination”, “Phone”, “Audio” or “Command List”.
“(beep)”
You: “Phone.”
System: “Phone.”
“Say a command.” “Such as “Dial by Number”, “Dial by Name”, “Redial”, “Call Back” or “Connect Phone”.
“(beep)”
You: “Dial by Name.”
System: “Dial by Name.” “Say a name from your contact list.”
“(beep)”
You: “MIKE.”
System: “MIKE.” “Say the type of number.” “Such as “Mobile”, “Home”, “Work” or “Other”.
“(beep)”
You: “Home.”
System: “MIKE.” “Home.”
“Push the off-hook switch to dial or say “Dial”.
“(beep)”
You: “Dial.”
System: “Dial.”
Now, you can call MIKE.

Calling without the voice recognition

After the entry number is displayed, you can also call by pushing  of the steering wheel 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.)
- Say "Cancel".

- By POI* call



You can call by touching  when it is displayed on the screen from navigation system. (See "POI INFORMATION" on page 36 for details.)

*: Point of Interest

— 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 refuse to receive the call:

Touch or push of the steering wheel.

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.

— 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 “Call Transfer”.

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.

When you touch “0–9”



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 phonebook, 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 phone number. (ex. 056133w0123p#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 phonebook.

- By voice recognition



You can operate “Mute” and “Send Tones” by giving a command during a call.

The operating procedure is similar to other voice recognition. (For the operation of voice recognition, see “Speech command system” on page 44.)

- Interrupt call



When the call is interrupted by the third party while talking, this screen is displayed.

Touch  or push  of the steering wheel to start talking with the other party.

Touch  or push  of the steering wheel to refuse the call.

Calendar

To view calendar.

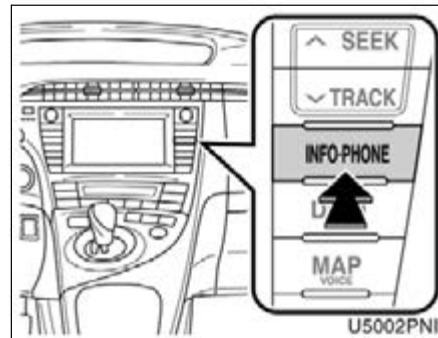


Everytime you touch  or push  of the steering wheel while interrupt call, the other party will be switched.

If your cellular phone is not accepted for HFP Ver. 1.5, this function can not be used.

INFORMATION

Interrupt call operation may differ depending on your phone company and cellular phone.



1. Push the "INFO-PHONE" button.



2. Touch "Calendar".



On this screen, yellow line appear under the current date.

 or  : To change month.

 or  : To change year.

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

TELEPHONE AND INFORMATION

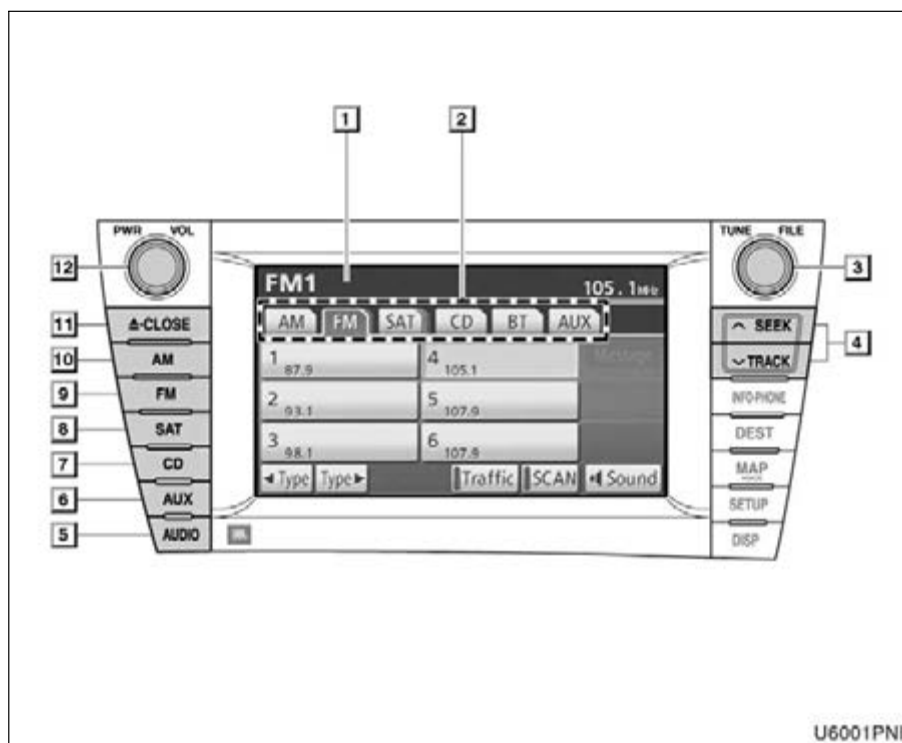
SECTION 6

AUDIO SYSTEM

- Quick reference 142
- **Using your audio system** 143
 - Some basics 143
 - Radio operation 150
 - CD changer operation 161
 - Bluetooth® audio operation 173
- Audio remote controls 181
- Audio system operating hints 183

Quick reference

Operations such as selecting a preset station and adjusting the sound balance are carried out on the touch screen. To display the audio screen, push the “AUDIO” button.



1 Function menu display screen To control the radio, CD changer, Bluetooth® audio player or AUX, touch the touch-screen buttons. For details, see page 145. 2 Function menu tab To control the radio, CD changer, Bluetooth® audio player or AUX, touch the touch-screen tabs. For details, see page 145.	3 “TUNE FILE” knob Turn this knob to move the station band and files up or down. For details, see pages 151, 156 and 169. 4 “SEEK/TRACK” button Push “^” or “v” button to seek up or down for a station, or to access a desired track, file. For details, see pages 152, 157, 165, 169 and 179.

Using your audio system — — Some basics

- 5** **“AUDIO” button**
Push this button to display the audio control screen. For details, see page 145.
- 6** **“AUX” button**
Push this button to turn the Bluetooth® audio player or AUX on. For details, see pages 145, 150 and 178.
- 7** **“CD” button**
Push this button to turn the CD changer on. For details, see pages 145 and 164.
- 8** **“SAT” button**
Push this button to choose an SAT station. For details, see pages 145 and 156.
- 9** **“FM” button**
Push this button to choose an FM station. Each time this button is pushed, the mode switches between FM1 and FM2. For details, see pages 145 and 150.
- 10** **“AM” button**
Push this button to choose an AM station. For details, see pages 145 and 150.
- 11** **“▲·CLOSE” button**
Push this button to display the “Load·Eject” screen or close the display. For details, see page 161.
- 12** **“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 145.

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

Your audio system works when the “POWER” switch is turned to ACCESSORY or ON mode.



CAUTION

For vehicles sold in U.S.A. and Canada:

● Part 15 of the FCC Rules

FCC Warning:

Changes or modifications in construction not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Radio frequency exposure. This device is approved for Mobile Application only and, to comply with applicable FCC radio frequency exposure regulations, must be used with a distance of at least 7.9 in. (20 cm) between the antenna and the body of any person at all time during use.

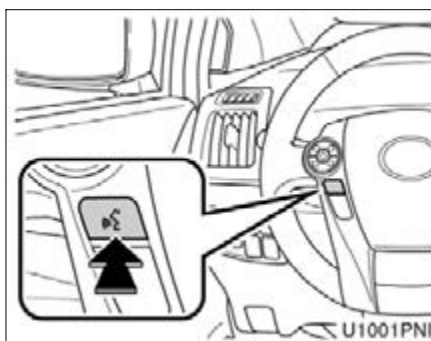
- **Laser products**

- Do not take this unit apart or attempt to make any changes yourself. This is an intricate unit that uses a laser pickup to retrieve information from the surface of compact discs. The laser is carefully shielded so that its rays remain inside the cabinet. Therefore, never try to disassemble the player or alter any of its parts since you may be exposed to laser rays and dangerous voltages.
- This product utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTICE

To prevent the 12 volt battery from being discharged, do not leave the audio system on longer than necessary when the hybrid system is not operating.

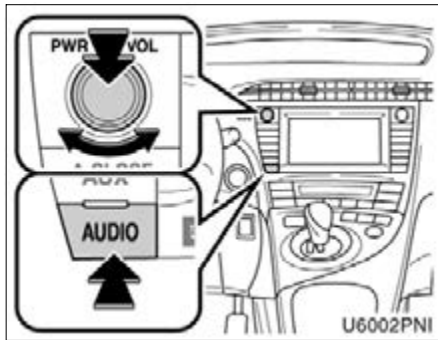
(a) Speech command system



By pushing the switch above, you can operate the speech command system.

For the operation of the speech command system and the list of commands, see pages 44 and 47.

(b) Turning the system on and off

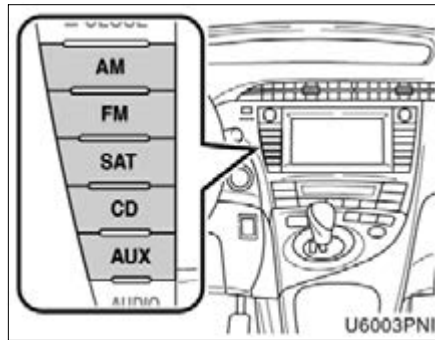


“AUDIO”: Push this button to display touch-screen buttons for audio system (audio control mode).

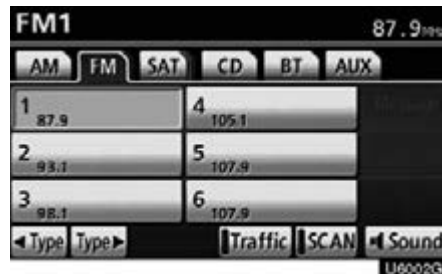
“PWR VOL”: Push this knob to turn the audio system on and off. Turn this knob to adjust the volume. The system turns on in the last mode used.

You can select the function that enables automatic return to the previous screen from the audio screen. See page 236 for details.

(c) Switching between functions



Push the **“AM”**, **“FM”**, **“SAT”**, **“CD”** or **“AUX”** button to turn on the desired mode.



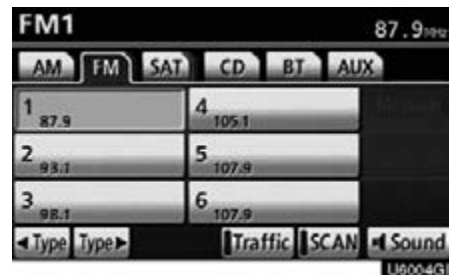
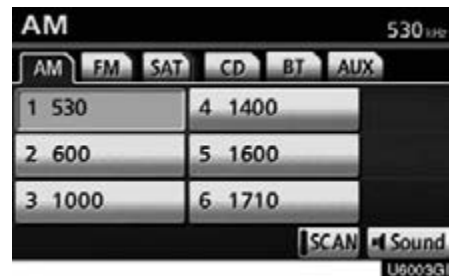
Push the **“AUDIO”** button and touch the **“AM”**, **“FM”**, **“SAT”**, **“CD”**, **“BT”** or **“AUX”** tab to turn on the desired mode.

AUDIO SYSTEM

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

If the disc is not set, the CD changer does not turn on.

You can turn off the CD changer by ejecting all the discs. If the audio system was previously off, then the entire audio system will be turned off when you eject all the discs. If the other function was previously playing, it will come on again.





The touch-screen buttons for radio, CD changer, Bluetooth® audio player and AUX operation are displayed on the function touch-screen button display screen when the audio control mode is selected. Touch them lightly and directly on the screen.

Touch the tab to select the desired mode when the audio control mode is selected.

The selected switch is highlighted.

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 using a glass cleaning cloth. Do not use chemical cleaners to clean the touch screen.*

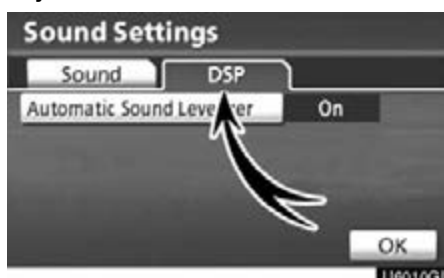
(d) Automatic sound levelizer (ASL)

When the audio sound becomes difficult to hear due to road noise, wind noise or other noises while driving, select “On”. The system adjusts to the optimum volume and tone quality according to the speed of car.

1. Push the “AUDIO” button.



2. Touch “Sound” to display the sound adjustment screen.



3. Touch “DSP” tab to display this screen.

4. Touch “Automatic sound levelizer”.

5. Touch “On” or “Off”.

6. Touch “OK”.

(e) Tone and balance

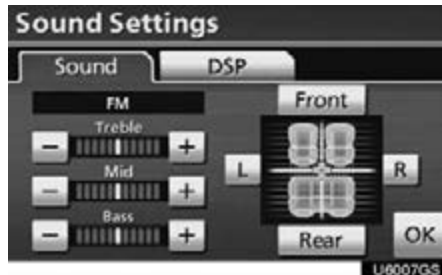
Tone

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

Balance

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. Touch “Sound” tab to display this screen.

2. Touch the desired button.

“Treble” “+” or “-”: Adjust high-pitched tones.

“Mid” “+” or “-”: Adjust 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.

3. Touch “OK”.

The tone of each mode (for such as AM, FM and CD changer) can be adjusted.

(f) Your CD changer

When you insert a disc, insert it with the label side up. This CD changer can store up to four discs. The changer will play from track 1 through to the end of the disc. Then it will play from track 1 of the next disc.

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



NOTICE

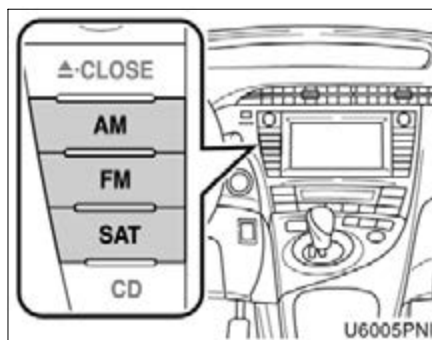
- **Do not stack up two discs for insertion, or it will cause damage to the changer. Insert only one disc into the slot at a time.**
- **Never try to disassemble or oil any part of the changer. Do not insert anything other than a disc into the slot.**

(g) AUX adapter

The sound of portable audio players connected to the AUX adapter can be enjoyed. Push the **"AUX"** button or push the **"AUDIO"** button to display audio screen and touch the **"AUX"** tab to switch to AUX mode. When the portable audio player is not connected to the AUX adapter, the tab will tone down. For details, refer to the "Owner's Manual".

— Radio operation

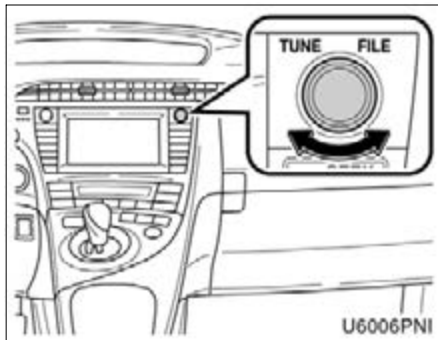
(a) Listening to the radio



Push the **"AM"** or **"FM"** buttons or push the **"AUDIO"** button to display audio screen and touch the **"AM"** or **"FM"** tabs to choose either an AM or FM station.

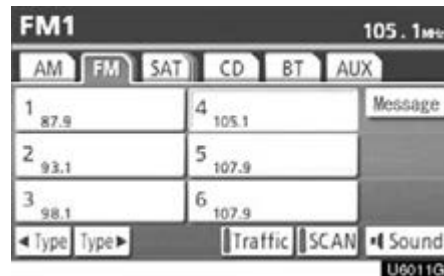
"AM", "FM1" or "FM2" appears on the screen.

When you push the **"SAT"** button or touch the **"SAT"** tab on AUDIO screen, "SAT1", "SAT2", "SAT3" station appears on the screen. For details about satellite radio broadcast, see "—Radio operation (XM® Satellite Radio broadcast)" on page 155.



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.



(b) Presetting a station

1. Tune in the desired station.

2. Touch one of the touch-screen buttons (1 — 6) you want and hold it until a beep is heard. This sets the station to the touch-screen button and the frequency appears on the touch-screen button.

Each radio mode (AM, FM1 or FM2) 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 the 12 volt battery disconnection or a blown fuse.

AUDIO SYSTEM

(c) Selecting a station

Tune in the desired station using one of the following methods.

Preset tuning: Touch the 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**” again.

To scan the preset stations: Touch “**SCAN**” on the screen for longer than 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**” again.

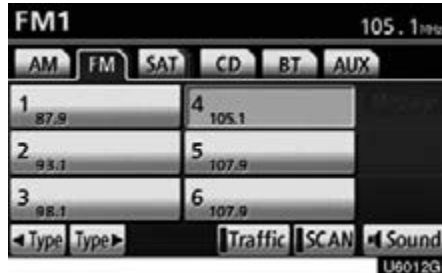
(d) Radio Data System

Your audio system is equipped with Radio Data Systems (RDS). RDS mode provides you to receive text messages from radio stations that utilize RDS transmitters.

When RDS is on, the radio can

- only select stations of a particular program type,
- display messages from radio stations,
- search for a stronger signal station.

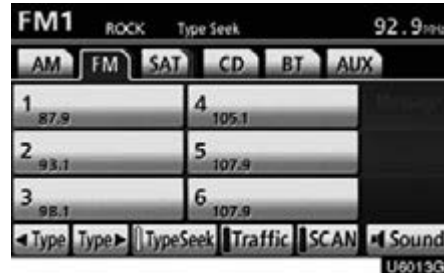
RDS features are available for use only on FM stations which broadcast RDS information.



“Type ◀▶”

Each time you touch “◀ Type ” or “Type ▶”, the program type changes as in the following:

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



“TypeSeek”

When a program is set, “Type Seek” appears. Touch the switch and the system starts to seek the station in the relevant program type.

If any type program station is not found, “Nothing” appears on the display.

AUDIO SYSTEM

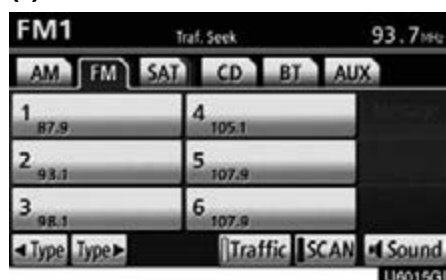


“Message”

If the system receives a radio text from RDS station, “MSG” appears on the display. Touch “**Message**”, and a text message is displayed on the screen. This function is available only when the vehicle is not moving.

When you touch “**Message Off**”, the display returns.

(e) Traffic announcement



“Traffic”

A station that regularly broadcasts traffic information is automatically located.

When you touch “**Traffic**”, “Traf. Seek” appears on the display and the radio will start seeking any traffic program station.

If no traffic program station is found, “Nothing” appears on the display.

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

—Radio operation (XM® Satellite Radio broadcast)

To listen to a satellite radio broadcast in your vehicle, a subscription to the XM® Satellite Radio service is necessary.

(a) How to subscribe to an XM® Satellite Radio

An XM® Satellite Radio is a tuner designed exclusively to receive broadcasts provided under a separate subscription. Availability is limited to the 48 contiguous U.S. states and some Canadian provinces.

How to subscribe:

You must enter into a separate service agreement with the XM® Satellite Radio in order to receive satellite broadcast programming in the vehicle. Additional activation and service subscription fees apply that are not included in the purchase price of the vehicle and optional digital satellite tuner.

For complete information on subscription rates and terms, or to subscribe to the XM® Satellite Radio.

U.S.A.—

Visit on the web at www.xmradio.com or call 1-800-967-2346.

Canada—

Visit on the web at www.xmradio.ca or call 1-877-438-9677.

The XM® Satellite Radio is solely responsible for the quality, availability and content of the satellite radio services provided, which are subject to the terms and conditions of the XM® Satellite Radio customer service agreement.

Customers should have their radio ID ready; the radio ID can be found by tuning to “channel 000” on the radio. For details, see “(b) Displaying the radio ID” below.

All fees and programming are the responsibility of the XM® Satellite Radio and are subject to change.

Satellite tuner technology notice:

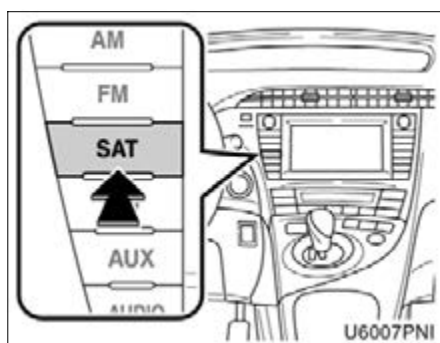
Toyota's satellite radio tuners are awarded Type Approval Certificates from XM® Satellite Radio Inc. as proof of compatibility with the services offered by the XM® Satellite Radio.

(b) Displaying the radio ID

Each XM® tuner is identified with a unique radio ID. You will need the radio ID when activating XM® service or when reporting a problem.

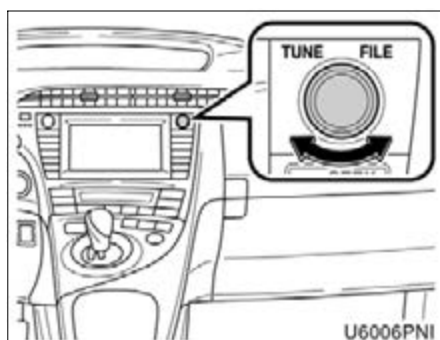
If you select the “CH 000” using the “TUNE FILE” knob, the ID code of 8 alphanumeric characters appears. If you select another channel, display of the ID code is canceled. The channel(000) alternates the display between the radio ID and the specific radio ID code.

(c) Listening to satellite radio



Push the “SAT” button or push the “AUDIO” button to display audio screen and touch the “SAT” tab to choose a SAT channel.

“SAT1”, “SAT2” or “SAT3” appears on the screen.



Turn this knob to select the next or previous channel.

If you turn continuously, you can rapidly scroll forward or down through the channels.

(d) Channel category



Touch either “◀ Type” or “Type ▶” to go to the next or previous category.

(e) Presetting a channel**1. Tune in the desired channel.****2. Touch one of the channel selector buttons (1 — 6) and hold it until a beep is heard.**

This sets the channels to the touch-screen button and the name and number of the channel appears on the touch-screen button.

Each touch-screen button can store three SAT channels. To change the preset channel to a different one, follow the same procedure.

The preset channel memory is cancelled when the power source is interrupted by the 12 volt battery disconnection or a blown fuse.

(f) Selecting a channel

Tune in the desired channel using one of the following methods.

Preset tuning: Touch the channel selector button (1 — 6) for the channel you want. The button (1 — 6) is highlighted and channel number appears on the display.

To select channel within the current category: Push the “^” or “v” button of “SEEK/TRACK”. The radio will step up or down the channel within the current channel category. Touch “TypeSeek”. The radio will step up the channel within the current channel category.



To scan the currently selected channel category: Touch “SCAN” briefly. “SCAN” appears on the display. The radio will find the next channel in the same channel category, stay there for a few seconds, and then scan again. To select a channel, touch “SCAN” a second time.

To scan the preset channels: Touch “SCAN” and hold it until you hear a beep. “P.SCAN” appears on the display. The radio will find the next preset channel, stay there for a few seconds, and then move to the next preset channel. To select a channel, touch “SCAN” a second time.

(g) Displaying the title and name



When you touch “**Text**”, the song/program title and the artist name/feature are displayed.

Up to 16 alphanumeric characters can be displayed. (Some information will not be fully displayed.)

When you touch “**Text**” again, the display returns.

(h) If the satellite radio tuner malfunctions

When problems occur with the XM® tuner, a message will appear on the display. Referring to the table below to identify the problem, take the suggested corrective action.

ANTENNA	The XM® antenna is not connected. Check whether the XM® antenna cable is attached securely.
	A short circuit occurs in the antenna or the surrounding antenna cable. See a Toyota certified dealer for assistance.
UPDATING	You have not subscribed to the XM® Satellite Radio. The radio is being updated with the latest encryption code. Contact the XM® Satellite Radio for subscription information. When a contract is canceled, you can choose the "CH000" and all free-to-air channels.
	The premium channel you selected is not authorized. Wait for about 2 seconds until the radio returns to the previous channel or "CH001". If it does not change automatically, select another channel. If you want to listen to the premium channel, contact the XM® Satellite Radio.
NO SIGNAL	The XM® signal is too weak at the current location. Wait until your vehicle reaches a location with a stronger signal.
LOADING	The unit is acquiring audio or program information. Wait until the unit has received the information.
OFF AIR	The channel you selected is not broadcasting any programming. Select another channel.
-----	There is no song/program title or artist name/feature associated with the channel at that time. No action needed.
---	The channel you selected is no longer available. Wait for about 2 seconds until the radio returns to the previous channel or "CH001". If it does not change automatically, select another channel.

Contact the XM® Listener Care Center at 1-800-967-2346 (U.S.A.) or 1-877-438-9677 (Canada).

NOTICE

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

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

Information to user

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

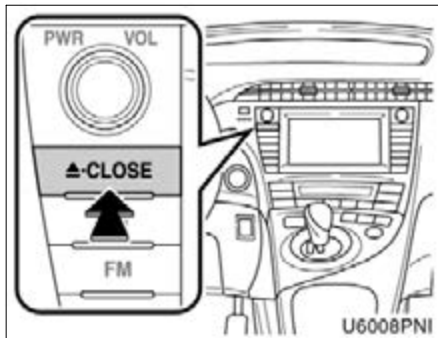
INFORMATION

This XM® tuner supports "Audio Services" (Music and Talk) of only XM® Satellite Radio and "Text Information" linked to the respective "Audio Services".*

**:Text Information includes, Station Name, (Artist) Name, (Song) Title and Category Name.*

— CD changer operation

(a) Inserting discs



The "POWER" switch must be in ACCESSORY or ON mode.

Your CD changer can store up to 4 discs.

You can set a disc at the lowest empty disc number.

1. Push the "▲-CLOSE" button. The "Load-Eject" screen appears.



2. Touch "Load". The display opens.



3. The amber indicators at either side of the slot start blinking. When the indicators change to green, insert only one disc. After the disc is loaded, the amber indicators at either side of the slot start blinking again. When the indicators change to green, you can insert the next disc.

4. Push the "▲-CLOSE" button to close the display.

The changer will automatically start playing from the last disc you inserted.

If the label faces down, the disc cannot be played. In this case, "Check CD" appears on the screen.

CAUTION

- Do not place anything on the opened display, as such items may be thrown about and possibly injure people in the vehicle during sudden braking or in an accident.
- To reduce the chance of injury in case of an accident or sudden stop while driving, keep the display closed.
- Take care not to jam your hand while the display is moving. Otherwise, you could be injured.

NOTICE

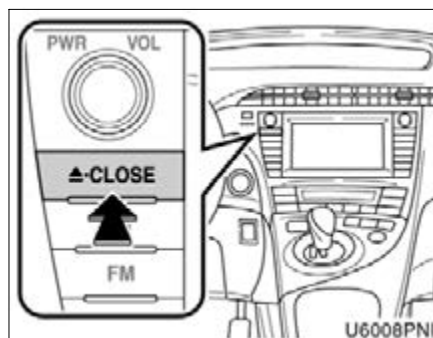
- Do not obstruct the display while it is moving. It could damage your audio system.
- Do not insert one disc stacked on top of another one or feed them in continuously, to prevent discs from getting stuck in the changer.

INFORMATION

Under extremely cold conditions, the display may react slowly or operation sound may become louder.

(b) Ejecting discs

- A single disc alone:



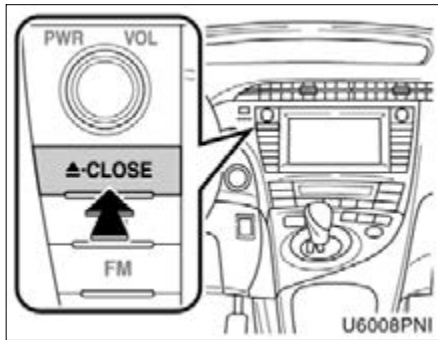
1. Push the “▲·CLOSE” button. The “Load·Eject” screen appears.



2. Touch the disc number to be ejected.

The display opens and the amber indicators at either side of the slot start blinking. After the disc is ejected, the amber indicators change to green. A disc can be inserted.

● All the discs:



1. Push the “▲-CLOSE” button. The “Load•Eject” screen appears.



2. Touch “Eject All”.

The display opens and the amber indicators at either side of the slot start blinking. After the disc is ejected, the blinking indicators stay on.

3. Remove the disc.

The indicators start blinking again and the next disc is ejected.

If a disc is not removed within 15 seconds after it is ejected, the operation will be canceled.

When all the discs are removed, the amber indicators change to green. A disc can be inserted.

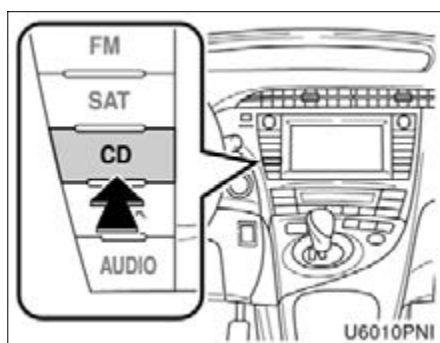


The numbers of the trays where the disc is not set are dimmed.

NOTICE

If a disc cannot be ejected, do not forcibly take out the disc. Keep pushing the “▲-CLOSE” button for approximately 5 seconds and release it. At this time, the audio disc and the map DVD-ROM will be ejected.

(c) Playing a disc



Push the “CD” button or push the “AUDIO” button to display audio screen and touch the “CD” tab if the discs are already loaded in the changer.

The discs set in the changer are played continuously, starting with the last disc you inserted. The disc number of the disc currently being played, the track number and the time from the beginning of the program appear on the screen.

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.

(d) Selecting a desired disc



Touch “Change Discs” on “CD” screen and touch the desired disc number on the screen.

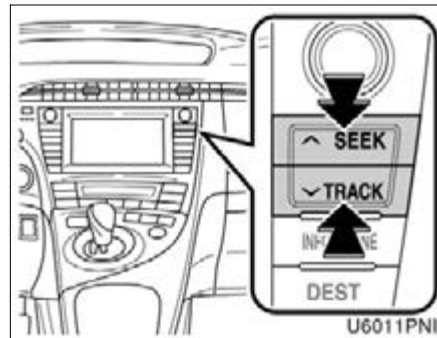
The selected disc number is highlighted.

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

(e) Playing an audio disc



Push the “AUDIO” button and touch the “CD” tab, then touch the “Change Discs”. Choose an audio disc number to display this screen.



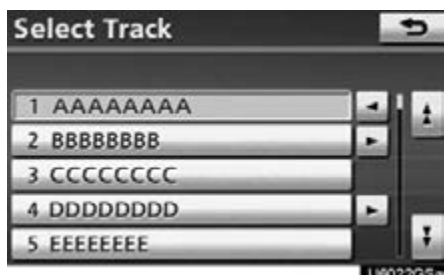
SELECTING A DESIRED TRACK

“SEEK/TRACK” button: Use for 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.

“Select” for Track: The desired track can be selected from a list. This function is available only when the vehicle is not moving.

Touch “Select”. The track list is displayed.



Touch the desired track number. The changer will start playing the selected track from the beginning.

 : By touching this touch-screen button, the list moves up by 5 track groups. If this button is touched when the top page of the list is displayed, the last page is displayed.

 : By touching this touch-screen button, the list moves down by 5 track groups. If this button is touched when the last page of the list is displayed, the top page is displayed.

►, ◀: 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 the beginning of the name.

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.



SEARCHING FOR A DESIRED TRACK OR DISC

Searching for a desired track —

Touch “SCAN” on the screen briefly while the disc is playing.

“SCAN” appears on the screen. The changer will play the next track for 10 seconds, then scan again. To select a track, touch “SCAN” on the screen a second time. 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 —

Touch “SCAN” on the screen for longer than a second while the disc is playing.

“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” on the screen a second time.

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 —

Touch **“RPT”** briefly while the track is playing. **“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 —

Touch **“RPT”** for longer than a second while the disc is playing. **“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 —

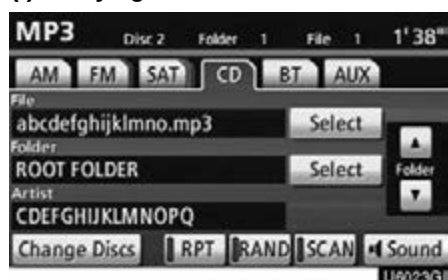
Touch **“RAND”** briefly while the disc is playing. **“RAND”** appears on the screen. The system selects a track on the disc being listened to in random order. To cancel it, touch **“RAND”** once again.

Playing the tracks on all the audio discs in random order —

Touch **“RAND”** for longer than a second while the disc is playing. **“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.

(f) Playing a MP3/WMA disc



Push the “AUDIO” button and touch the “CD” tab, then touch the “Change Discs”. Choose an MP3/WMA disc number to display this screen.

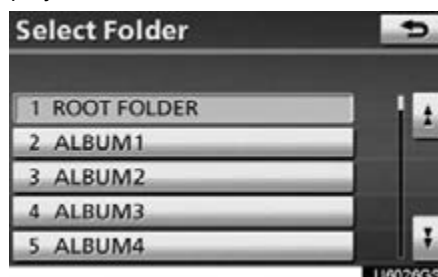
SELECTING A DESIRED FOLDER

“Folder▲”: Touch this touch-screen button to go to the next folder.

“Folder▼”: Touch this touch-screen button to go to the previous folder.

“Select” for Folder: The desired folder can be selected in a list. This function is available only when the vehicle is not moving.

Touch “Select”. The folder list is displayed.



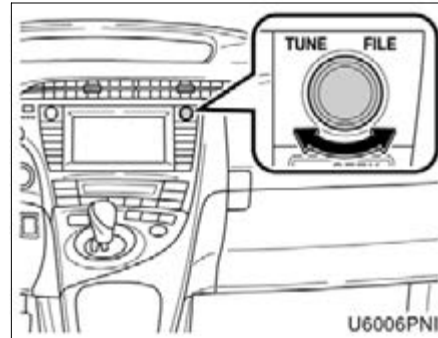
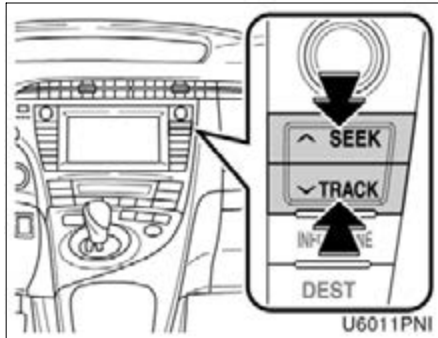
Touch the desired folder number. The changer will start playing the first file of the selected folder.



: By touching this touch-screen button, the list moves up by 5 folder groups. If this touch-screen button is touched when the top page of the list is displayed, the last page is displayed.



: By touching this touch-screen button, the list moves down by 5 folder groups. If this touch-screen button is touched when the last page of the list is displayed, the top page is displayed.



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 listening 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.

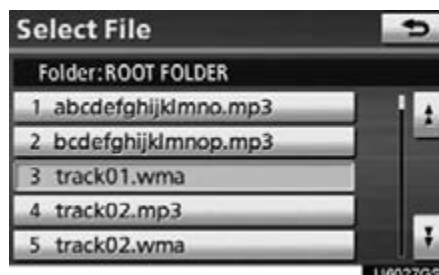
Turn the “TUNE FILE” knob to step up or down all the files in the disc you are currently listening to. The file number appears on the display. When “RAND” or “FLD.RPT” is on, all the files in the folder you are currently listening to can be stepped up or down.

AUDIO SYSTEM



“Select” for File: The desired file can be selected in a list. This function is available only when the vehicle is not moving.

Touch **“Select”**. The file list is displayed.



Touch the desired file number. The changer will start playing the selected file from the beginning.



: By touching this touch-screen button, the list moves up by 5 file groups. If this touch-screen button is touched when the top page of the list is displayed, the last page is displayed.



: By touching this touch-screen button, the list moves down by 5 file groups. If this touch-screen button is touched when the last page of the list is displayed, the top page is displayed.



SEARCHING FOR A DESIRED FILE

Touch “SCAN” on the screen briefly while the disc is playing.

“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 a second time. 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

Touch “SCAN” on the screen for longer than a second while the disc is playing.

“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 a second time.

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



OTHER FUNCTIONS

“RPT”: Use it for automatic repeat of the file or folder you are currently listening to.

Repeating a file —

Touch **“RPT”** briefly while the file is playing. **“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 —

Touch **“RPT”** for longer than a second while the folder is playing. **“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 —

Touch **“RAND”** briefly while the disc is playing. **“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 —

Touch **“RAND”** for longer than a second while the disc is playing. **“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.

(g) If the player malfunctions

If “CD Error” appears on the screen, audio signals of the disc cannot be read or the system has trouble. Push the “CD” button once again.

If the changer does not operate, check that the disc surface is not soiled or damaged. If the disc is O.K., the temperature of the changer’s internal mechanism may be raised because of high external temperature. Remove the disc from the changer to cool it.

If the changer still does not operate, have it checked by 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.

—Bluetooth® audio operation

The Bluetooth® audio system enables users to enjoy music played on a portable player from the vehicle speaker via wireless communication.



This audio system supports Bluetooth®, a wireless data system capable of playing portable audio music without cables. If your portable player does not support Bluetooth®, the Bluetooth® audio system will not function.

INFORMATION

Portable players must correspond to the following specifications in order to be connected to the Bluetooth® audio system. However, please note that some functions may be limited depending on the type of portable player.

- **Bluetooth® Specification**
Ver.1.1 or higher
(Recommended: Ver.2.0+EDR or higher)
- **Profile**
 - **A2DP (Advanced Audio Distribution Profile) Ver.1.0**
 - **AVRCP (Audio/Video Remote Control Profile) Ver.1.0 or higher**
(Recommended: Ver.1.3 or higher)

Please go to “<http://www.toyota.lets-talk.com/>” to find approved Bluetooth® phones for this system.



Bluetooth is a trademark owned by Bluetooth SIG, Inc.



CAUTION

Do not operate the player's controls or connect to the Bluetooth® audio system while driving.

NOTICE

Do not leave your portable player in the car. In particular, high temperatures inside the vehicle may damage the portable player.

INFORMATION

- **In the following conditions, the system may not function.**
 - **The portable player is turned off.**
 - **The portable player is not connected.**
 - **The portable player has a low battery.**
- **It may take time, the phone connection is carried out during Bluetooth® audio play.**



1 Indicates the condition of the Bluetooth® connection.

“**Blue**” indicates an excellent connection to Bluetooth®.

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

BT : No connection to Bluetooth®.

2 Indicates the amount of battery charge left.



Empty ←————→ Full

Remaining charge is not displayed while the Bluetooth® is connecting.

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

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

- Your portable player is hiding behind from the display (behind the seat or in the glove box or console box).
- Your portable player touches or is covered with metal materials.

Leave the Bluetooth® portable player in a place where the “Blue” indication is displayed.

The portable player information is registered when the Bluetooth® audio system is connected. When you release possession of your vehicle, remove your portable player. (See “(a) Removing a Bluetooth® audio” on page 296.)

FCC ID : HYQDNNS025
Type : DNNS025
IC : 1551A-DNNS025 Canada 310

This device complies with Part 15 of the FCC Rules and RSS-210. Operation is subject to the following two conditions : (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

CAUTION: Radio Frequency Radiation Exposure

This equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated with at least 20 cm and more between the radiator and person's body (excluding extremities: hands, wrists, feet and legs).

Co-location: This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

(a) Connecting Bluetooth® audio player

To use the Bluetooth® audio system, you need to enter your portable player into the system. Once you have registered it, you can enjoy your music on the vehicle's audio system. (See "—Setting Bluetooth® audio" on page 295.)

For the operation procedure for the portable player, see the instruction manual that comes with it.

- When the connection method is "From Vehicle".
- When the auto connection is on
When the portable player is standby for the connection, it will be automatically connected whenever the "POWER" switch is in either ACCESSORY or ON mode.
- When the auto connection is off
Manually connect the portable player in accordance with the following procedure.



Touch "Connect".



When the connection is completed, this screen is displayed. Now you can use the portable player.



This screen will appear when the connection has failed.

- When the connection method is "From Portable Player"

Operate the portable player and connect it to the Bluetooth® audio system. For the operation procedure for the portable player, see the instruction manual that comes with it.



Touch "Connect".



Connect the portable audio player to the Bluetooth® audio system.



This screen will appear when the connection has been successfully established.

- **Reconnecting the portable player**

If the portable player is disconnected with a poor reception from the Bluetooth® network when the "POWER" switch is in ACCESSORY or ON mode, the system automatically reconnects the portable player. In this case, the connection result is not displayed.

If the Bluetooth® is disconnected on purpose such as you turned your portable player off, this does not happen.

Reconnect it by the following method.

- **Select the portable player again.**
- **Enter the portable player.**

- (b) **Playing a Bluetooth® audio**

- **Playing and pausing a Bluetooth® audio**



Push the "AUX" button or push the "AUDIO" button to display this screen and touch the "BT" tab if the Bluetooth® audio player is already connected.

Touch  and the music will start playing.

Touch  and the music will pause.

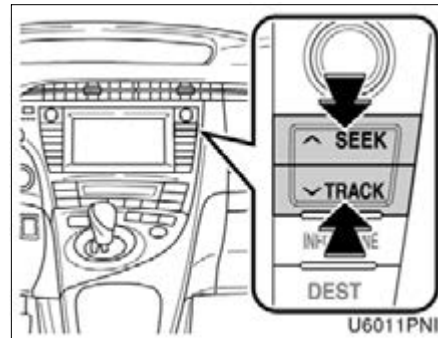
Touch  and the music will start playing again.

Depending on the portable player that is connected to the system, the music may start playing when touching  while it is paused. On the other hand, the music may pause when touching  while it is playing.



Some titles may not be displayed depending on the type of portable player.

- **Selecting a desired track**



“SEEK/TRACK” button: Use for 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 portable player will start playing the selected track from the beginning.

Fast forward:

Push and hold the “^” button of “SEEK/TRACK” to fast forward the player. When you release the button, the portable player will resume playing from that position.

Reverse:

Push and hold the “v” button of “SEEK/TRACK” to reverse the player. When you release the button, the player will resume playing.

INFORMATION

Depending on the portable player that is connected to the system, certain functions may not be available.

- Selecting a desired album



“Album ▲”: Touch this button to go to the next album.

“Album ▼”: Touch this button to go to the previous album.

INFORMATION

Depending on the portable player that is connected to the system, certain functions may not be available.

- Other function



“RPT”: Use this control to automatic re-play the track 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 player will automatically play it again. To cancel the repeat, touch “RPT” once again.

Audio remote controls (steering switches)

“RAND”: Use this for automatic and random selection of tracks on the album that you are currently listening to.

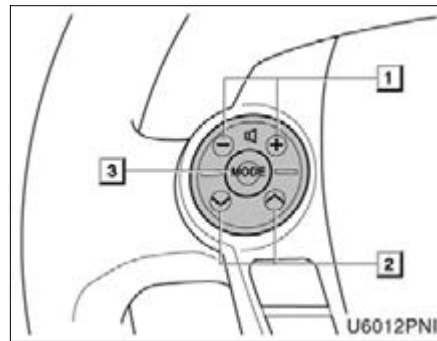
Playing the tracks in the album in random order—

While the track is playing, touch “RAND” briefly.

“RAND” appears on the screen. The system selects a track in the album you are currently listening to. To cancel this function, touch “RAND” once again.

INFORMATION

Depending on the portable player that is connected to the system, certain functions may not be available.



Some parts of the audio system can be adjusted using the switches on the steering wheel.

Details of the specific switches, controls, and features are described below.

- 1** Volume control switch
- 2** “ $\wedge \vee$ ” switch
- 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 “^v” switch

Radio

This switch has the following features—

To select a preset station:

Quickly push and release the “^” or “v” side of the switch. Do this again to select the next preset station.

To seek a station:

Push and hold the “^” or “v” side of the switch until you hear a beep. Do this again to find the next station. If you push the switch on either side during the seek mode, seeking will be cancelled.

To step up or down the frequency, push and hold the switch even after you hear a beep. When you release from the switch, the radio will begin seeking up or down for a station. Do this again to find the next station.

XM® Satellite Radio—

To select a preset channel, push the “^” or “v” side of the switch. Repeat until a desired channel is found.

CD changer

Use this switch to skip up or down to a different track in either direction.

To select a desired track or file:

Quickly push and release the “^” or “v” side of the switch until the track you want to listen to is set. If you want to return to the beginning of the current track, push the “v” side of the 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.

Bluetooth® audio player

Use this switch to skip up or down to a different track or album in either direction.

To select a desired track:

Quickly push and release the “^” or “v” side of the switch until the track you want to listen to is set. If you want to return to the beginning of the current track, push the “v” side of the switch once quickly.

To select a desired album:

Push and hold “^” or “v” switch until you hear a beep to change to the next or the previous album. Repeat this operation until you reach the album you want to listen to.

3 “MODE” switch

Push “MODE” switch to select an audio mode. Each push changes the mode sequentially if the desired mode is ready to use.

To turn the audio system on, push the “MODE” switch.

To turn the audio system off, push and hold the “MODE” switch until you hear a beep.

Audio system operating hints

NOTICE

To ensure correct audio system operations:

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

RADIO RECEPTION

Usually, a 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. 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 25 miles (40 km). Once outside this range, you may notice fading and drifting, which increase with the distance from the radio transmitter. They are often accompanied by distortion.

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

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

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

AM

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

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

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

AUDIO SYSTEM

XM®

Cargo loaded on the roof luggage carrier, especially metal objects, may adversely affect the reception of XM® Satellite Radio.

Alteration or modifications carried out without appropriate authorization may invalidate the user's right to operate the equipment.

CARING FOR YOUR CD CHANGER AND DISCS

- Your CD changer is intended for use with 4.7 in. (12 cm) discs only.
- Extremely high temperatures can keep your CD changer from working. On hot days, use the air conditioning to cool the vehicle interior before you use the changer.
- Bumpy roads or other vibrations may make your CD changer skip.
- If moisture gets into your CD changer, you may not play even though they appear to be working. Remove the disc from the changer and wait until it dries.



CD changer

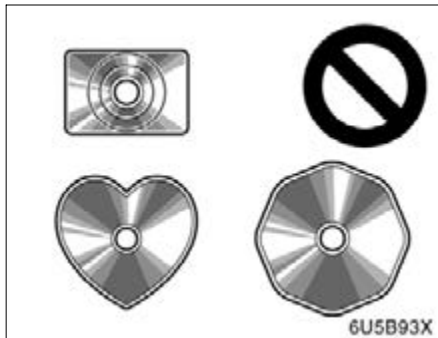
- Use only discs marked as shown above. The following products may not be playable on your changer.

Copy-protected CD
CD-ROM

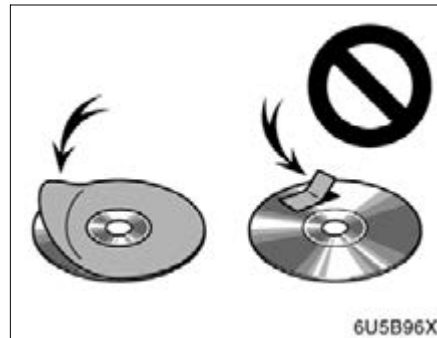


CAUTION

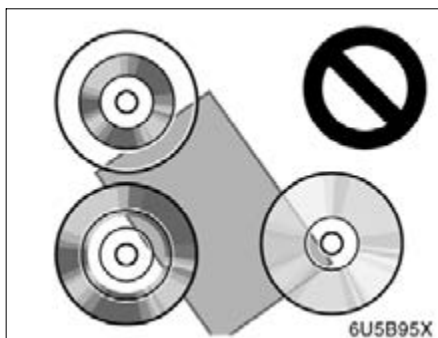
CD changer use an invisible laser beam which could cause hazardous radiation exposure if directed outside the unit. Be sure to operate the changers correctly.



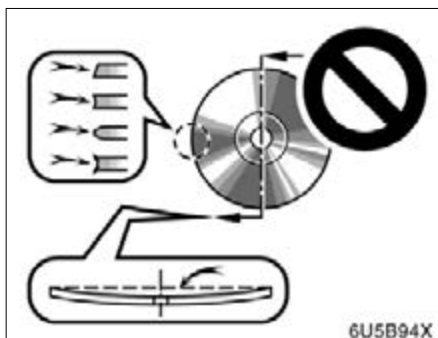
► Special shaped discs



► Labeled discs



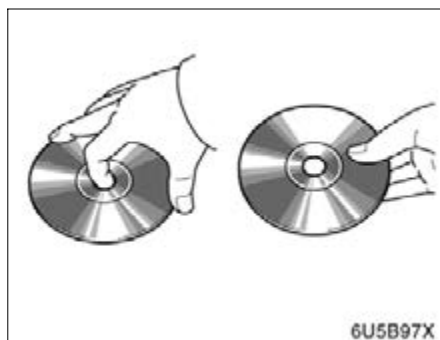
► Transparent/translucent discs



► Low quality 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 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 changer.
- Do not use a disc with protection ring. The use of such disc may damage the changer, or it may be impossible to eject the disc.
- If a disc cannot be ejected, do not forcibly take out the disc. Keep pushing the "▲·CLOSE" button for approximately 5 seconds and release it. At this time, the audio disc and the map DVD-ROM will be ejected.



► 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 player to skip or to repeat a section of a track. (To see a pin hole, hold the disc up to the light.)
- Remove discs from the players 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 circles). Dry it with another soft, lint-free cloth. Do not use a conventional record cleaner or anti-static device.

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, 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

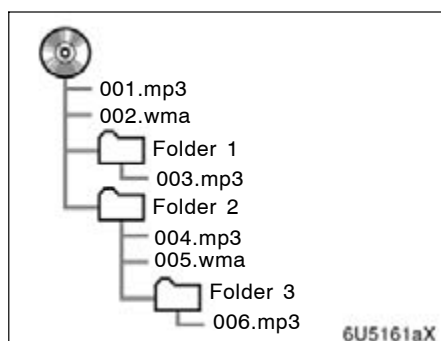
MPEG2 LSF LAYER3—64 to 160 kbps

WMA files:

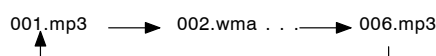
Ver. 7, 8 CBR—48 to 192 kbps

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.
- 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.



- The play order of the compact disc with the structure shown above is as follows:



- 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.

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.

AUDIO SYSTEM

SECTION 7

ADVANCED PARKING GUIDANCE SYSTEM

- [Advanced parking guidance system](#) 192

Advanced parking guidance system —

The advanced parking guidance system helps back up parking by displaying a rear-view image in order to provide a reference for back up maneuvering, as well as automatically controlling the steering wheel when backing into a target parking position set on the screen. The system will not automatically back up or regulate speed.

The advanced parking guidance system is not an automatic parking system. It is a system to assist back up parking.

As the system only assists with parking in a set target parking position, there are times when the system will be unable to render this assistance, depending on factors such as road surface or vehicle condition, or the distance to the set target parking position.

Depending on the characteristics of the camera lens, the distance to or position of people or obstacles shown on the screen may differ slightly from actual conditions.

SELECTING A LANGUAGE

See “● Selecting a language” on page 237 for the procedure to select a language. Once you select a language, the advanced parking guidance system will indicate that language until you select another language.

CAUTION

- Never depend on the advanced parking guidance system 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 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.
- Back up slowly, using the brake pedal to control the vehicle's speed.
- If you seem likely to hit nearby vehicles, obstacles or people, depress the brake pedal to stop the vehicle, and then disable the system by touching  on the screen.
- Use the system for flat spaces.
- As the steering wheel moves automatically in the parallel parking assist mode and parking assist mode, be aware of the following points:
 - Keep clothing such as neckties, scarves and long sleeves away from the steering wheel, as they may become entangled. Also, keep children away from the steering wheel.
 - If you have long fingernails, be careful not to injure yourself when the steering wheel moves.

- If there is a problem, stop the vehicle and disable the system by touching  on the screen.
- Be sure to check that the vehicle can actually park in the target space before beginning operation.
- Do not use the system in the following conditions:
 - Outside of parking areas
 - In unprepared parking area such as gravel or sand
 - In parking areas that are crooked or have level variations
 - On slippery or icy roads, or in snow
 - If the asphalt is melted due to harsh sunlight
 - If there are obstacles in the target parking position (inside the green frame), or obstacles between the vehicle and the parking space
 - If there are a large number of vehicles or pedestrians passing
 - In areas unsuitable for parking (overly small parking space, cliff etc.)
 - If the image is hard to see due to dirt, direct sunlight, shadow or snow on the camera lens
 - If you are using tire chains or emergency tire(s)
- Do not use tires other than those installed by the manufacturer, as the system may not function correctly. Furthermore, if you change the tires, there may be errors in the positions of the lines and frames displayed on the screen. If you wish to change your tires, see your Toyota dealer .

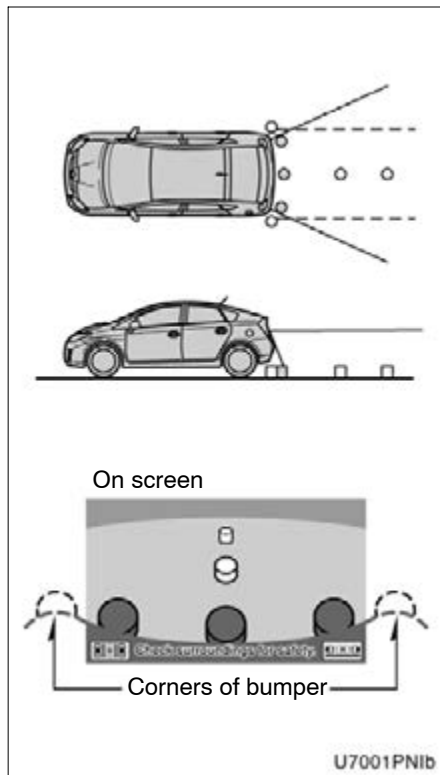
- In the following conditions, assisted parking in the set parking position may not be possible:
 - The tires are extremely worn, or the tire inflation pressure is low
 - You are carrying an extremely heavy load
 - There is a load in one side of the vehicle only, causing the vehicle to lean
 - Tires have received a strong impact, such as bumping against a curb, resulting in improper wheel alignment
- Do not use the system when the back door 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.
- If you scrape the camera cover, or scrub it with a hard brush or an abrasive agent, you may scratch the cover, leading to poor picture quality.

- Do not allow organic solvent, car wax, window cleaner or paint coating to adhere to the camera. If this happens, wipe it off as soon as possible.
- If the camera is subjected to a collision, or the camera orientation confirmation lines are not in line with the bumper, it is likely that the camera position or angle of installation has become crooked. See your Toyota dealer 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 attach any accessories within the detection range of the sensors.
- A sensor may not operate properly in the following situations.
 - There is ice, snow or mud on the sensor. (When it is removed, the normal operation will return.)
 - The sensor is frozen. (When the sensor warms up, it will return to normal.) At low temperatures in particular, sensors that are frozen may not detect a parked vehicle.
 - When the vehicle is tilted.
 - In extreme hot or cold weather.
 - When driving on bumpy roads, slopes, gravelled roads or grass.

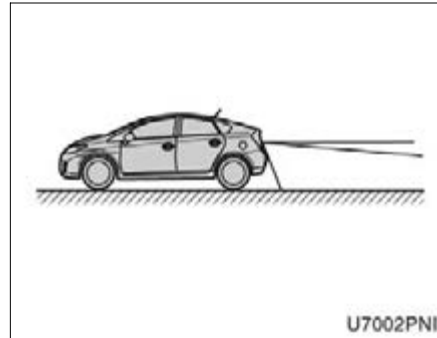
- Devices issuing ultrasonic waves are operated around your vehicle, such as a horn from another vehicle, motorcycle engine, air braking sound from heavy-duty vehicles.
- When rain or water is splashed over the vehicle.
- When a radio antenna or fender pole is mounted on your vehicle.
- The sensor approaches too close to a parked vehicle.
- The sensor is covered in any way.
- The bumper or sensor receives a strong impact.

- Area displayed on screen

Image is displayed approximately level on screen.



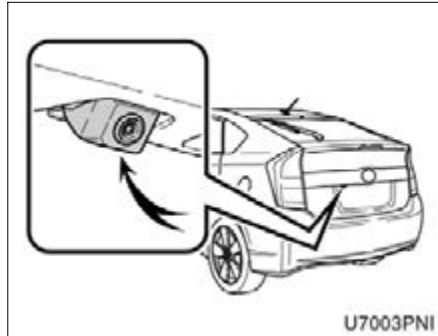
The area covered by the camera is limited. Objects which are close to either corner of the bumper or under the bumper cannot be seen on the screen.



The area displayed on the screen may vary according to vehicle orientation or road conditions.

ADVANCED PARKING GUIDANCE SYSTEM

- The advanced parking guidance system camera

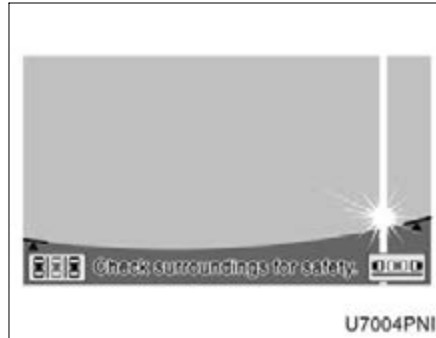


The advanced parking guidance system camera is located on the back door as shown in the illustration.

The camera uses a special lens. The distance of the image that appears on the screen differs from the actual distance.

In the following cases, it may become difficult to see the images on the screen, even when the system is functioning.

- In the dark (for example, at night)
- When the temperature near the lens is extremely 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, snow or mud) adheres to the camera lens
- When the camera has scratches or dirt on it
- When the sun or the beam of headlights is shining directly into the camera lens



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.

If you install the antenna of a wireless device close to the camera, the screen image may be affected by the electromagnetic waves, and the system may not function correctly. Install an antenna away from the camera.

The method for adjusting the picture quality of the advanced parking guidance system is the same as that for the navigation screen.

—Maneuvering when parking

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 advanced parking guidance system.

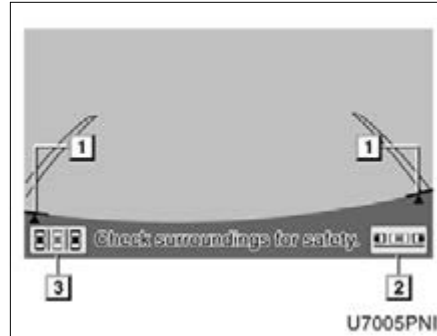
Also, when parking, be sure to check that the parking space will accommodate your vehicle before maneuvering into it.



CAUTION

Depending on the circumstances of the vehicle (number of passengers, amount of luggage, etc.), the set target parking position displayed on the screen may change. Be sure to check visually behind and all around the vehicle before proceeding.

(a) To activate the advanced parking guidance system



To activate the advanced parking guidance system, shift to "R" when the "POWER" switch is in ON mode.

- If you move the shift position out of "R", the screen returns to the previous screen. Operating another function of the navigation system will display another screen.
- Even if the shift position is in "R", if you push any of the mode buttons around the display, such as "MAP/VOICE" or "INFO·PHONE", the screen will switch to that mode.

1 Camera orientation confirmation lines

If the edge of the bumper displayed on the screen does not match the camera orientation confirmation lines, the camera may not be aligned correctly. Have the vehicle checked by your Toyota dealer.

2 Parallel parking assist mode button

Touching this button turns parallel parking assist mode on.

See “ — Parallel parking assist mode” on page 202 for details.

3 Parking assist mode button

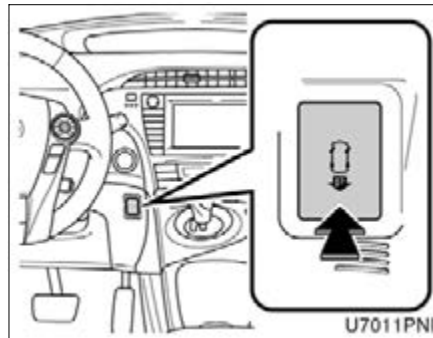
Touching this button turns parking assist mode on.

See “ — Parking assist mode” on page 214 for details.

- To adjust the volume of the voice guidance, ask your Toyota dealer for details.

PRE-SUPPORT SWITCH

Use this switch to turn on/off the pre-support function and to switch assist mode between parallel parking assist mode and perpendicular parking assist mode.



Pushing the pre-support switch while “POWER” switch is in ON mode and the vehicle is travelling below 9 mph (15 km/h) with the shift position in any position other than “P” or “R”, will cause the screen to change in the following order:

Pre-support function OFF (Navigation screen, etc.)



Parallel parking assist mode pre-support screen



Perpendicular parking assist mode pre-support screen



Pre-support function OFF (Navigation screen, etc.)

If the pre-support function cannot be used, two beeps will sound.

(b) Disabling the advanced parking guidance system

When in the parking assist mode or parallel parking assist mode, in the following case the voice guidance will say “The guidance has been canceled”, a message will be displayed, and the system will be disabled. For displayed message, see page 226.

After the following operations

- Moving the steering wheel
- Using the accelerator
- Moving the shift position out of “R”
- Applying the parking brake
- Switching the screen display

In the following situation

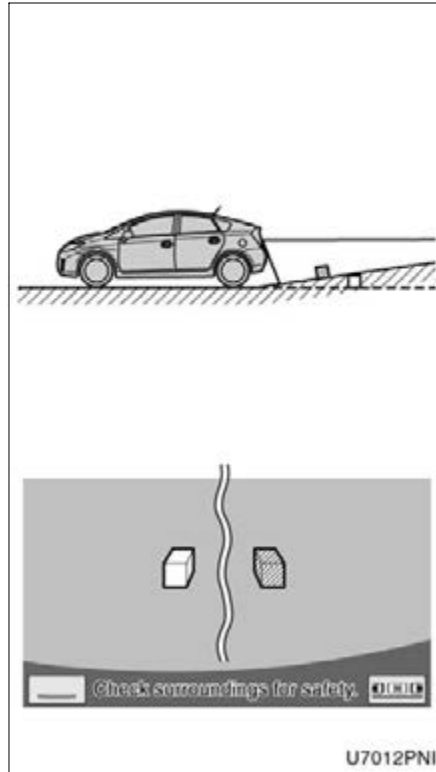
- If the vehicle slips forward or stops after taking your foot off the brake pedal
- If the backing speed is too fast
- If normal assistance cannot be rendered due to worn tires or low tire inflation pressure
- If the target parking position has not been confirmed on the target parking position setting screen before backing up
- Any warnings displayed on the screen are not acknowledged before backing up
- If there is a system malfunction
- If the system temperature protection function operates

If the system is disabled while backing up, grip the steering wheel firmly and depress the brake pedal to bring the vehicle to a halt. The system has been completely disabled, so you may either start again from the beginning, or if you wish to finish parking manually, be sure to operate the steering wheel as you would normally.

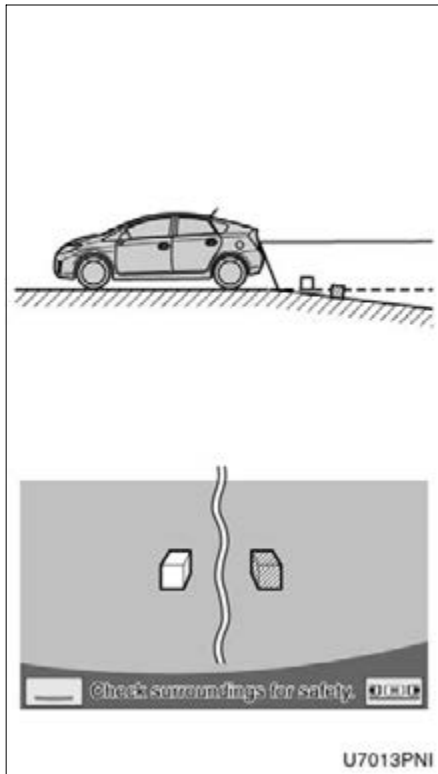
If a hands-free phone call is received, the hands-free screen will be displayed, and the system will be disabled.

—Driving precautions

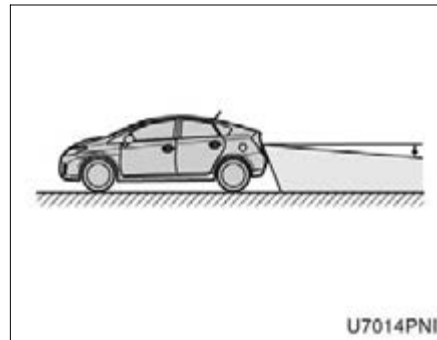
In any of the following situations, there is a margin of error between the set target parking position on the screen and the actual distance/course on the road.



- When the grade behind the vehicle slopes up sharply, objects appear to be farther away than they actually are.



- 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 set target parking position on the screen and the actual distance/course on the road.

— Parallel parking assist mode

Parallel parking assist mode assists the driver with parallel parking by automatically controlling the steering wheel when backing up, in order to park in the target position set on the screen.



CAUTION

- When backing up, be sure to check your surroundings and behind the vehicle for safety, and back up slowly, depressing the brake pedal to control vehicle speed.
- If you seem likely to hit nearby vehicles, obstacles or people, depress the brake pedal to stop the vehicle, then disable the system by touching  on the screen.

As the system only assists with parking in a set target parking position, there are times when the system will be unable to render this assistance, depending on factors such as road surface or vehicle condition, or the distance to the set target parking position.

Use the system with full understanding of the fact.

If a message is displayed while maneuvering, follow the procedures outlined in “— What to do when this sort of message is displayed” on page 226.

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.

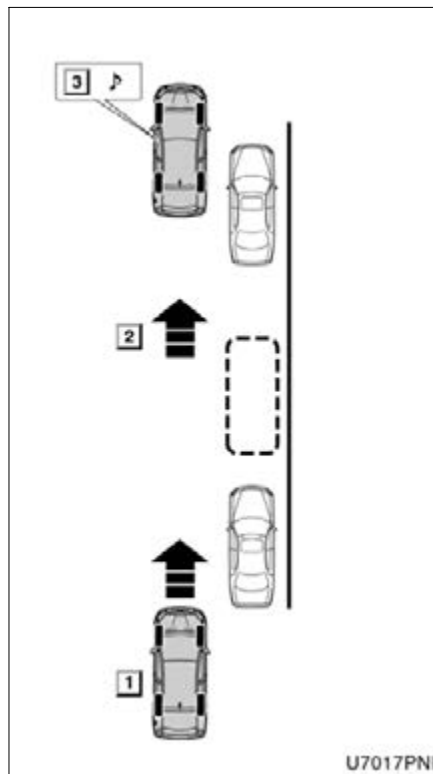
The operating method differs depending on whether or not the pre-support function is in use.

PRE-SUPPORT FUNCTION

The pre-support function can be used when there is a space between two parked vehicles. If a parking space is detected, this function will inform the driver using a tone when the vehicle is in a position to begin backing up, and guides the vehicle to a position from which assistance can be given.

Guidance will not be given if the detected space is narrow.

Parking between two vehicles

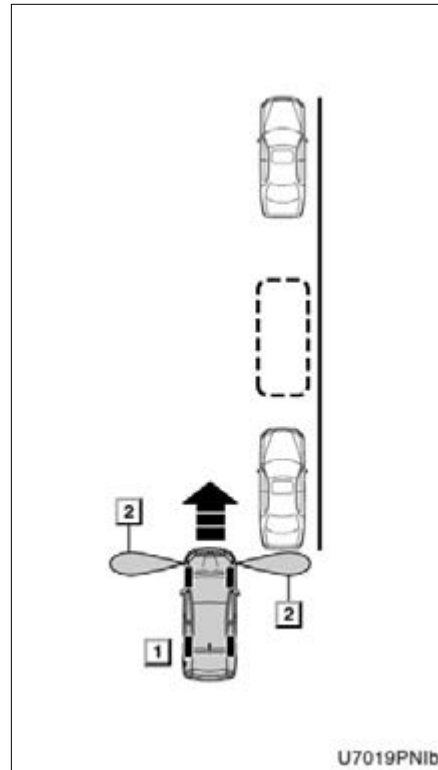


- 1 Push the pre-support switch once
- 2 Identify a parking space
- 3 Get into a position to begin back-up maneuvering

INFORMATION

- To allow the pre-support system to activate accurately, move the vehicle as slowly as possible (at a speed that will allow the vehicle to be stopped suddenly).
- If only one vehicle is parked, the pre-support system cannot be used.
- The function cannot be used if the shift position is in "P" or "R", or if the vehicle speed is greater than 9 mph (15 km/h).
- In order to identify parking spaces and detect parked vehicles using the sensors on both sides of the front bumper, guidance cannot be given if a space is not detected.
- Parking space guidance and searching continues until the vehicle speed is greater than 9 mph (15 km/h) or until the function is turned off by pushing the pre-support switch.

(a) When the pre-support function is in use

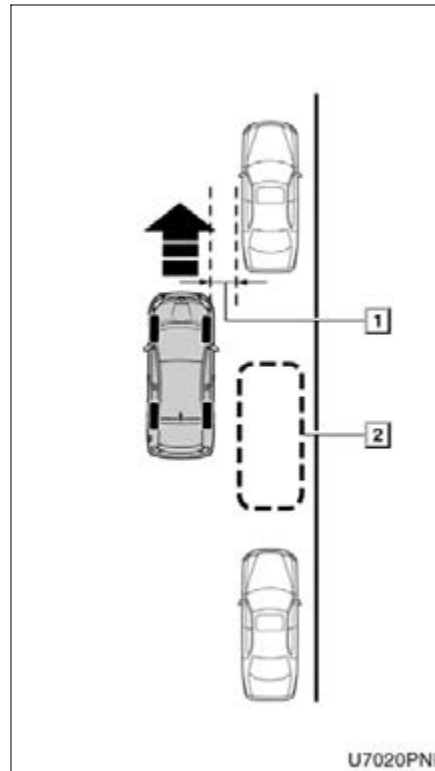


- 1 Push the pre-support switch once
- 2 Sensor detection range

1. With the vehicle speed at less than 9 mph (15 km/h) and the vehicle on the near side of the parking space, push the pre-support switch once. Confirm that the display has switched to the "Parallel parking mode" screen.

INFORMATION

- The mode will switch with each push of the pre-support switch.
- If the shift position is in "P" or "R", or if the vehicle speed is 9 mph (15 km/h) or above, two beeps will sound when the pre-support switch is pushed, and the display will not change.

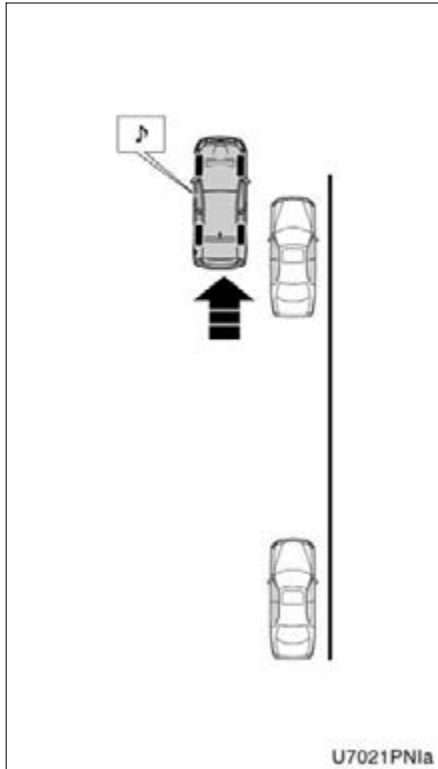


- **1** Approx. 3 ft. (1 m)
2 Desired parking location

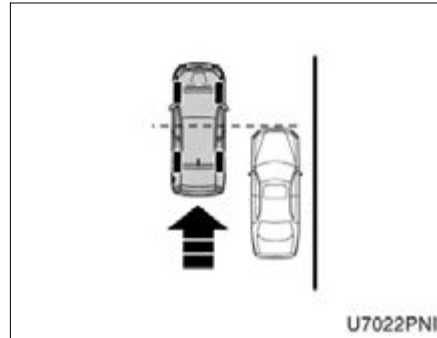
2. Move the vehicle to a position parallel to the road (or road shoulder) that is also approximately 3 ft. (1 m) away from the parked vehicle, and then proceed straight forward.

INFORMATION

To cancel the guidance function, turn off the pre-support function by pushing the pre-support switch twice.



3. Stop the vehicle when two chimes sound.



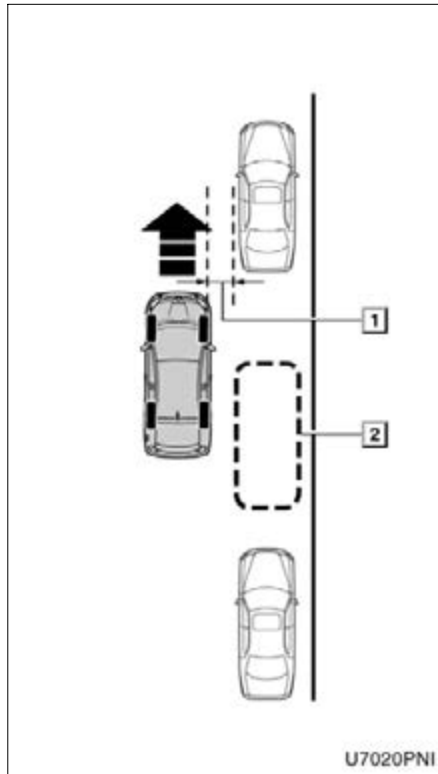
INFORMATION

- Two chimes sound when the vehicle reaches a position from which the front edge of the leading parked vehicle can be seen alongside.
- Move the vehicle forward as slowly as possible so that the vehicle can be stopped as soon as the two chimes sound.
- The chimes will not sound if the vehicle does not arrive in a backing-up position. If the vehicle is stopped and the shift position is shifted to "R" before the chimes sound, the screen shown in step 4 of "(b) When the pre-support function is not in use" on page 206 is displayed.

4. Shift to "R".

For operation after shifting to "R", see step 5 of "(b) When the pre-support function is not in use" on page 206.

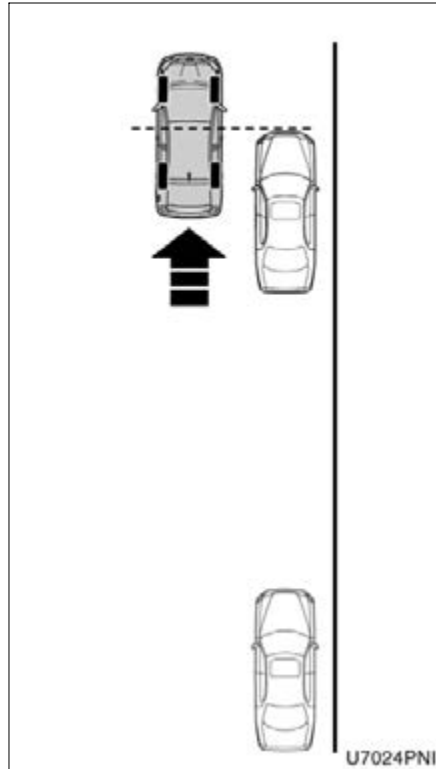
(b) When the pre-support function is not in use



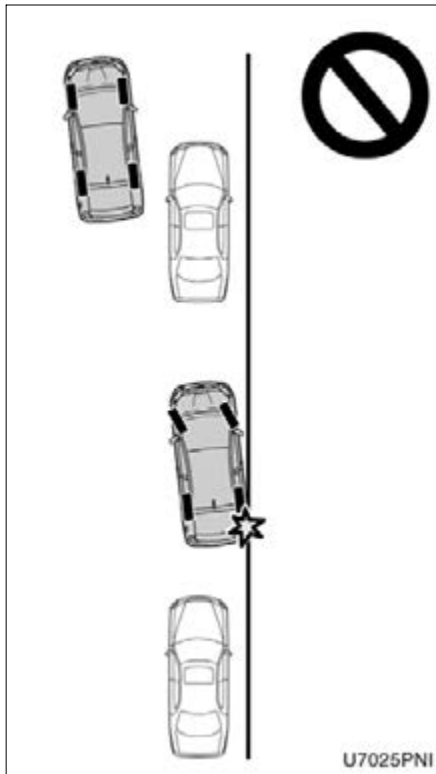
- **1** Approx. 3 ft. (1 m)
- 2** Desired parking location

1. Move your vehicle slowly to a position parallel to the road or shoulder approximately 3 ft. (1 m) away from parked vehicles.

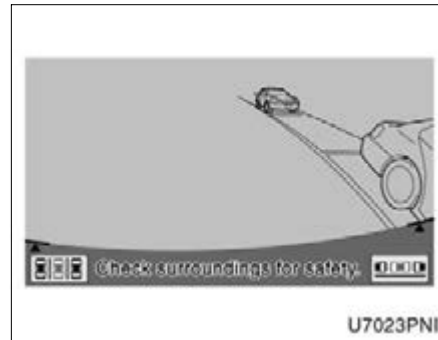
To facilitate the setting of the target parking position, the front side sensors detect the vehicles parked in front of and behind the parking space and identify the target parking position.



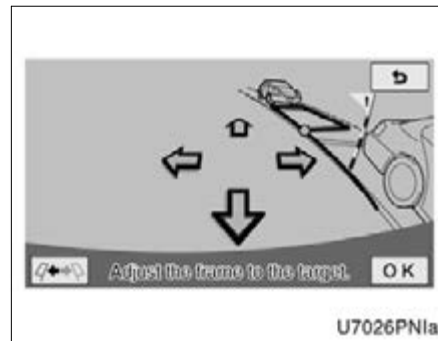
2. Stop your vehicle in a position where you can see the front edge of the leading parked vehicle right beside you, with the steering wheel straight.



3. Shift to "R".



4. Touch  on the screen.



5. Use the arrow to align the green frame with your target parking space, and touch "OK".

You can also move the green frame by touching the screen (area other than the arrows).

There are tricks to align the green frame. See "● Tips for setting the target parking position" on page 211.

If the frame is displayed in red, you cannot use the parallel parking assist mode to park in that location. See "● When a red frame is displayed in the assist mode" on page 229.

CAUTION

Be sure to stop the vehicle parallel to the road or shoulder. If the vehicle is not parallel, the assist location will be very near the shoulder. If it looks like the vehicle will hit or mount the shoulder, depress the brake pedal to stop the vehicle, and touch  on the screen to deactivate the system.

If there is no leading parked vehicle, the system will display the target parking position (green or red frame) in the position used last time the parallel parking assist mode was activated.

ADVANCED PARKING GUIDANCE SYSTEM

When the green frame is displayed, if you begin backing up without touching "OK", the message "Parking position has not been set." appears. If you continue to back up, you will hear a warning tone and the system will be disabled.

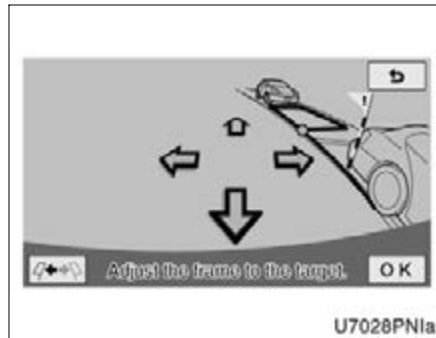
If the frame is red, there will be no guidance even if you begin backing up.

If the orientation of the frame is opposite to that of the target parking space, touch



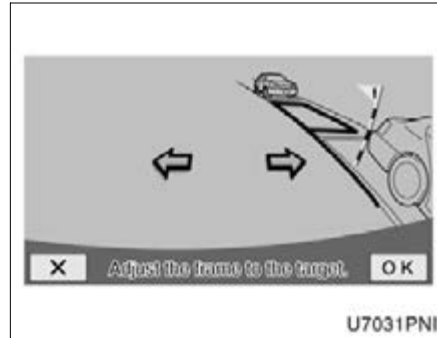
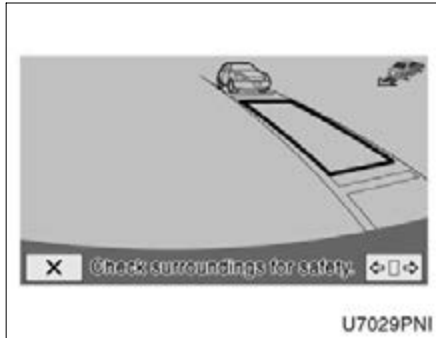
There may be times when, due to image distortion, the green frame does not match the parking space lines on the road surface. In this case, use the warning flag and green extension guide line to set the target parking position.

You may adjust the target parking position even after starting the parallel parking assist mode.



CAUTION

- Always check that there are no obstacles in the green frame or between your vehicle and the parking space, and that the warning flag and extension guide line do not overlap any parked vehicles or walls.
- If there are obstacles in the green frame or between your vehicle and the parking space, or the warning flag or extension guide line overlaps a parked vehicle or wall, there is a danger of collision. In this case, do not use the parallel parking assist mode. The same applies if the green frame overlaps the shoulder.
- The warning flag is only a guide. Be sure to directly check your surroundings and behind the vehicle for safety, and back up carefully.
- If the road surface has level variations or a gradient between the starting position and target parking position, it will not be possible to correctly set the location, which may cause the parking position to be misaligned or crooked. In this case, do not use the parallel parking assist mode.



6. Position yourself as you would when backing up normally, and rest your hands on the steering wheel without applying any pressure. Check your surroundings and behind the vehicle for safety, and slowly back up, using the brake pedal to control the vehicle's speed.

If you touch , assistance is canceled.

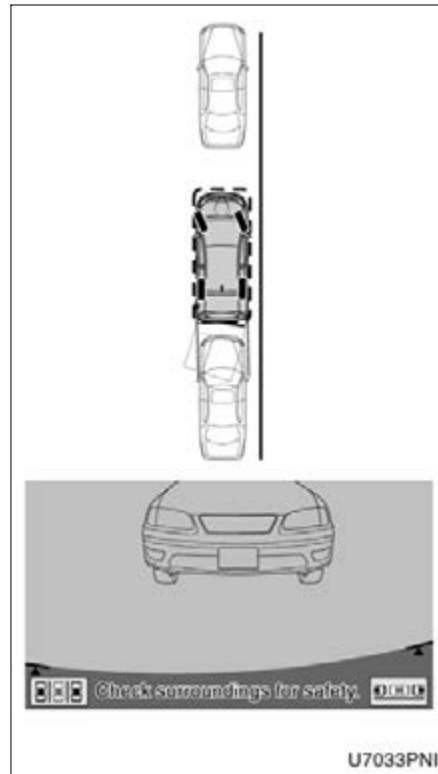
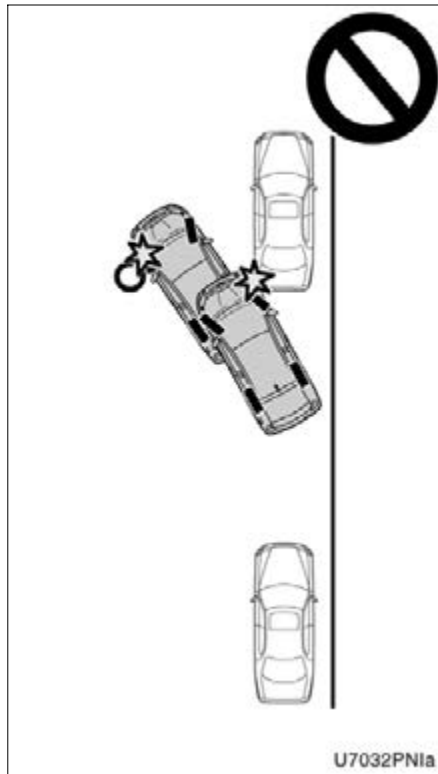
If the vehicle's backing up speed is too fast, a warning tone will sound and the message "Speed is too fast." will be displayed. If you continue to back up at that speed, the system will be disabled. Back up at a speed that does not cause the warning tone to sound.

The green frame displayed on the screen is approximately the same size as your vehicle. (The green frame displayed when setting the target parking position is the size of a normal parking space.)

You can change the target parking position by touching . If you are backing up, or have already moved close to the target parking position,  will turn gray, and you will be unable to change the target.

Touch the arrows to move the target parking position, and then touch "OK".

You can only move the target parking position left or right, and the warning flag will not move even if you adjust the target parking position.



CAUTION

- When backing up, be sure to check your surroundings and behind the vehicle for safety, and back up slowly, depressing the brake pedal to control vehicle speed.
- If a collision seems likely, depress the brake pedal to stop the vehicle, then disable the system by touching  on the screen.

7. Once the vehicle is mostly within the target parking position, voice guidance will give a message, and parallel parking assist mode will finish.

For safety, voice guidance is given slightly before the target parking position. Furthermore, at that point system control will finish, so grip the steering wheel firmly, and finish parking in the desired position, using the brake to control the vehicle's speed.

Check in front and behind the vehicle visually and check with the mirrors while backing up.

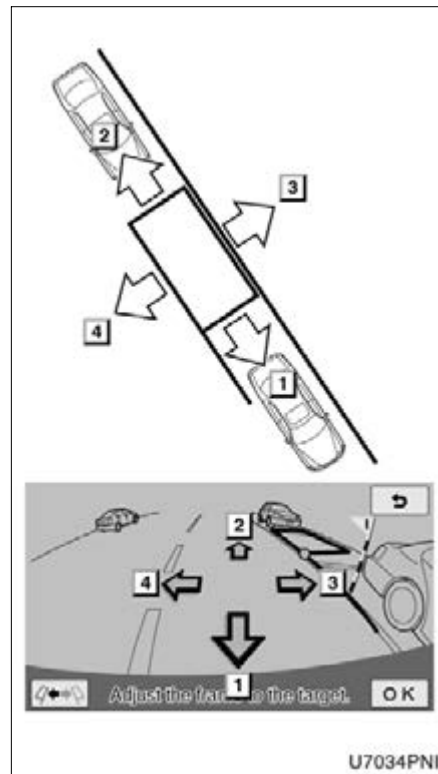
- **Tips for setting the target parking position**

Useful information for setting the target parking position (green frame)

ALIGNING THE GREEN FRAME

There are two ways to align the green frame with the parking space, either using the arrows on the screen, or by touching the screen at points other than the arrows.

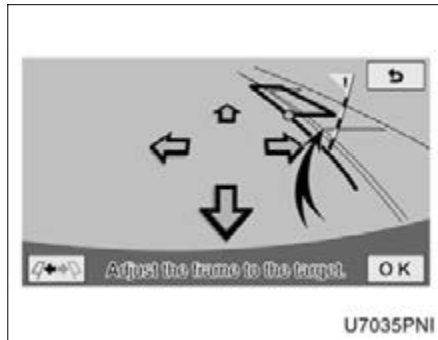
Using the arrows on the screen



By touching the arrows displayed on the screen, you can move the green frame.

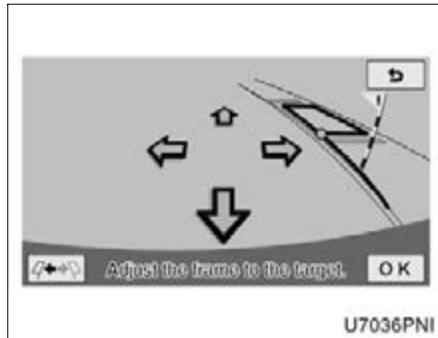
Adjusting the left-right alignment first will make subsequent alignment easier.

Directly touching the target point



By touching the point you wish to move the frame to, you can move the green frame.

1. Touch the front edge of the place you wish to move.

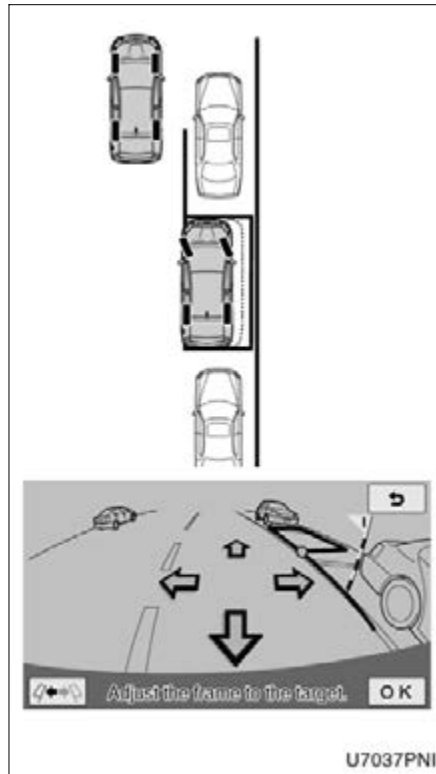


2. The frame will be moved as shown.

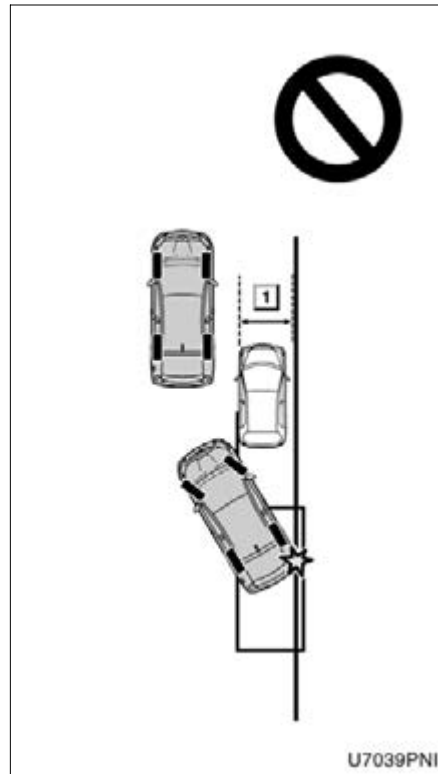
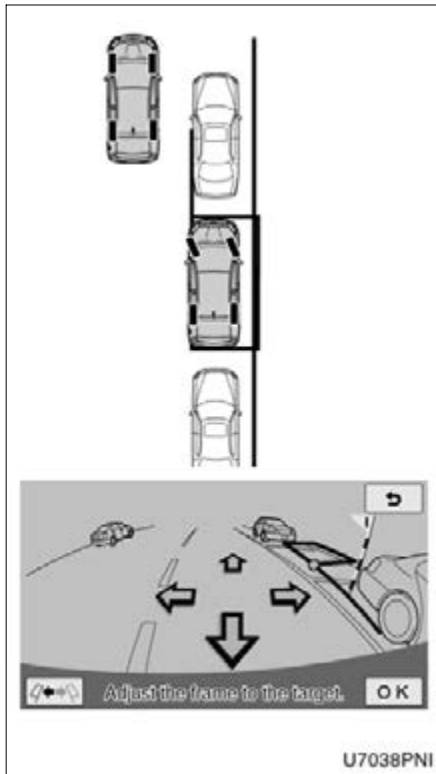
If you touch the following areas, the green frame will not move:

- The area surrounding the arrows.
- The area near the lower touch-screen button on the screen.
- Areas too far away to park in the range of 34.4 ft. (10.5 m) or more behind the current position, and/or 16.4 ft. (5.0 m) or more either left or right from the current position.

IF THERE IS A SLOPE IN THE ROAD



The assisted parking position will move left or right of the set target parking position.



In this case, if you align the warning flag with the rear of the forward parked vehicle, and the green extension guide line with the lower edge of the parked vehicle's rear wheel when setting the target parking position, the left side of your vehicle will be roughly in line with the left side of the front parked vehicle once assisted parking is complete. If you are parallel parking on the opposite side of the road, left and right will be reversed.

► **1** Narrow

⚠ CAUTION

If the parked vehicle is narrow, or parked close to the shoulder, the assisted parking position may be quite close to the shoulder. If the vehicle seems likely to hit or mount the shoulder, depress the brake pedal to stop the vehicle, and disable the system by touching X.

— Parking assist mode (Perpendicular parking)

Parking assist mode assists the driver with perpendicular parking by automatically controlling the steering wheel when backing up, in order to park in the target position set on the screen.

⚠ CAUTION

- When backing up, be sure to check your surroundings and behind the vehicle for safety, and back up slowly, depressing the brake pedal to control vehicle speed.
- If you seem likely to hit nearby vehicles, obstacles or people, depress the brake pedal to stop the vehicle, then disable the system by touching  on the screen.

As the system only assists with parking in a set target parking position, there are times when the system will be unable to render this assistance, depending on factors such as road surface or vehicle condition, or the distance to the set target parking position.

Use the system with full understanding of the fact.

If a message is displayed while maneuvering, follow the procedures outlined in “— What to do when this sort of message is displayed” on page 226.

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.

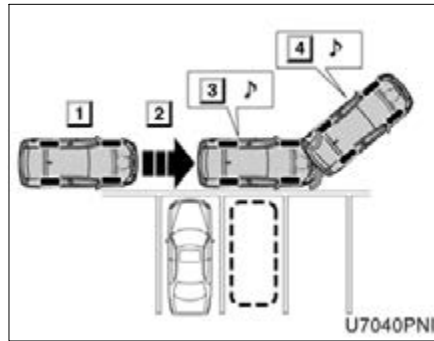
The operating method differs depending on whether or not the pre-support function is in use.

PRE-SUPPORT FUNCTION

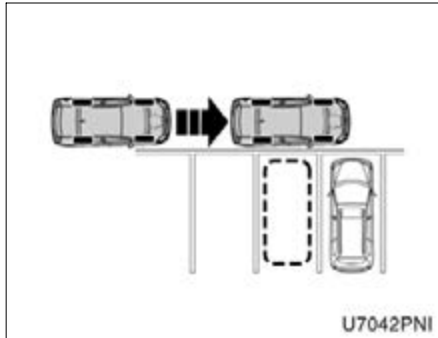
The pre-support function can be used when another vehicle is parked on the near side of the intended parking space. This function uses a tone to give parking guidance.

Guidance will not be given if the detected space is narrow.

Parking on the next side of another parked vehicle



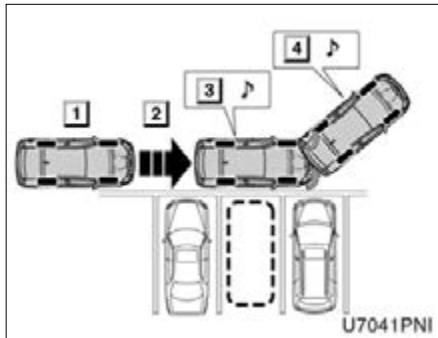
- 1 Push the pre-support switch twice
- 2 Identify a parking space
- 3 Get into a position to maneuver the steering wheel
- 4 Get into a position to begin back-up maneuvering



INFORMATION

If only one vehicle is parked, the pre-support system cannot be used to park on the right side of the vehicle.

Parking between two parked vehicles

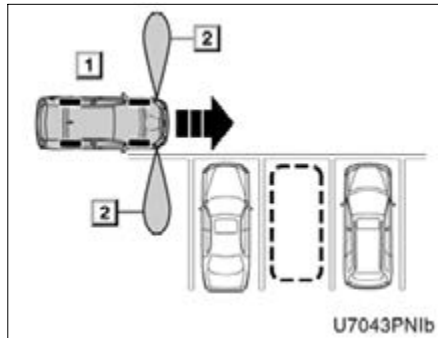


- **1** Push the pre-support switch twice
- 2** Identify a parking space
- 3** Get into a position to maneuver the steering wheel
- 4** Get into a position to begin back-up maneuvering

INFORMATION

- *To allow the pre-support system to activate accurately, move the vehicle as slowly as possible (at a speed that will allow the vehicle to be stopped suddenly).*
- *The function cannot be used if the shift position is in "P" or "R", or if the vehicle speed is greater than 9 mph (15 km/h).*
- *In order to identify parking spaces and detect parked vehicles using the sensors on both sides of the front bumper, guidance cannot be given if a space is not detected.*
- *Parking space guidance and searching continues until the vehicle speed is greater than 9 mph (15 km/h) or until the function is turned off by pushing the pre-support switch.*

(a) When the pre-support function is in use

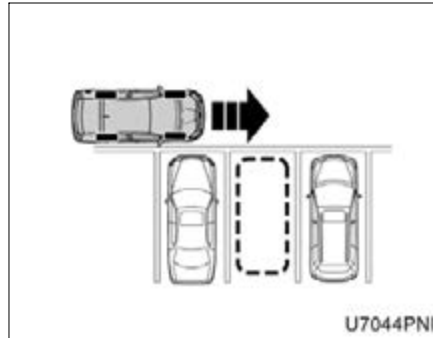


- 1 Push the pre-support switch twice
- 2 Sensor detection range

1. With the vehicle speed at less than 9 mph (15 km/h) and the vehicle on the near side of the parking space, push the pre-support switch twice. Confirm that the display has switched to the "Back-in mode" screen.

INFORMATION

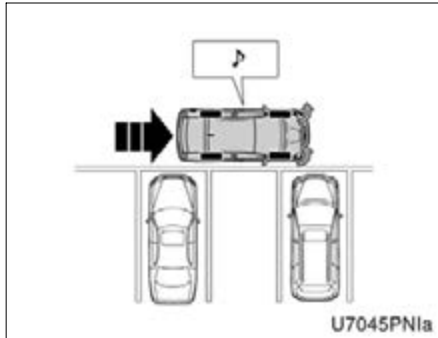
- The mode will switch with each push of the pre-support switch.
- If the shift position is in "P" or "R", or if the vehicle speed is 9 mph (15 km/h) or above, two beeps will sound when the pre-support switch is pushed, and the display will not change.



2. Move the vehicle to a position perpendicular to the parking space, and as close as possible to the parked vehicle.

INFORMATION

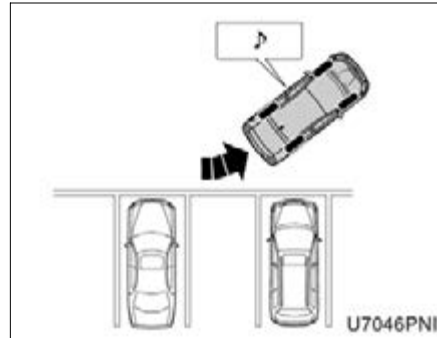
- Move the vehicle forward as slowly as possible so that the steering wheel can be turned as soon as the chime sounds.
- To cancel the guidance function, turn off the pre-support function by pushing the pre-support switch once.



3. As soon as the chime sounds, rotate the wheel halfway or more and proceed forwards.

INFORMATION

The chime sounds when the center of the parking space can be seen directly beside the vehicle.



4. When two chimes sound, stop the vehicle and straighten the steering wheel.

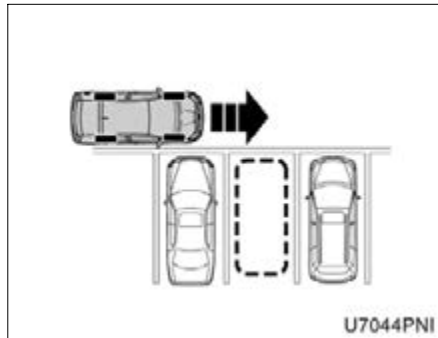
INFORMATION

- *Move the vehicle forward as slowly as possible after turning the steering wheel so that the vehicle can be stopped as soon as the two chimes sound.*
- *The chimes will not sound if the vehicle does not arrive in a backing-up position after the steering wheel has been maneuvered. If the vehicle is stopped and the shift position is shifted to "R" before the chimes sound, the screen shown in step 5 of "(b) When the pre-support function is not in use" on page 218 is displayed.*

5. Shift to "R".

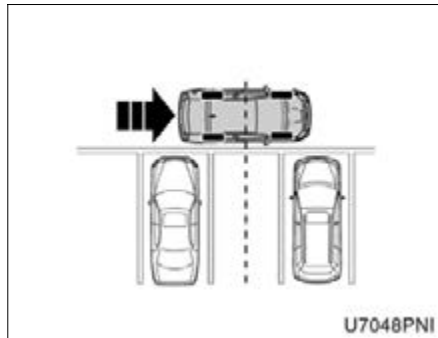
For operation after shifting to "R", see step 6 of "(b) When the pre-support function is not in use" on page 218.

(b) When the pre-support function is not in use



1. Move your vehicle slowly to a position perpendicular to the parking space, and as close as possible to the parking space.

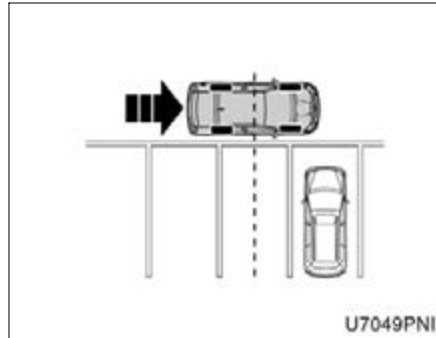
Positioning the vehicle perpendicular to the parking space allows the angle of the parking position to be identified easily.



2. Move your vehicle to a position where you can see the center of the parking space right besides you.

To facilitate the setting of the target parking position, the front side sensors detect the vehicles parked at the left and right of the parking space and identify the target parking position.

It is possible to identify the target parking position even if there is only a vehicle parked on one side of the parking space.

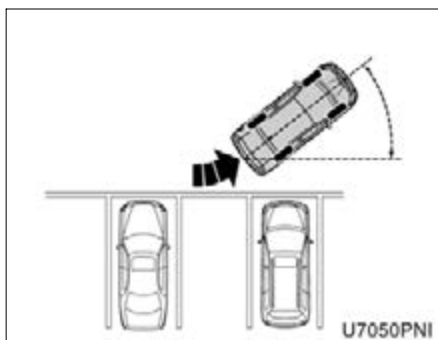


If no vehicle or small vehicles are parked on both sides of the desired parking space, stop with the steering wheel straight.

By stopping the vehicle here, you can mostly identify the parking location, making it easier to set the target parking position.

Make sure the steering wheel is straight when you stop. If not, the parking location cannot be identified.

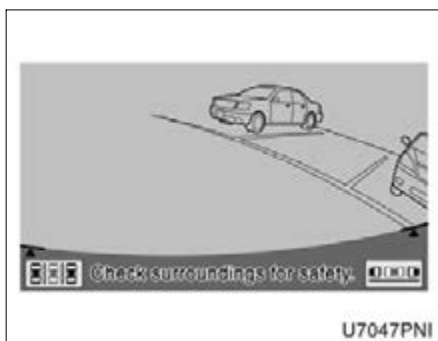
If you do not stop in front of the parking space, the system will refer to the angle of the vehicle relative to the target parking space, and display the target parking position (green or red frame) in the position used last time the parking assist mode was activated.



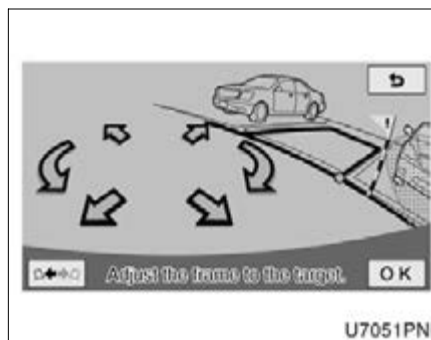
3. Position your vehicle so that you can enter the parking space, then stop the vehicle with the steering wheel straight.

To enter the target parking space more accurately, position your vehicle with a larger heading angle.

4. Shift to "R".



5. Touch  on the screen.



6. Use the arrow to align the green frame with the desired parking space, then touch "OK".

You can also move the green frame by touching the screen (area other than the arrow).

There are tricks to align the green frame.

See "● Tips for setting the target parking position" on page 223.

Areas in which you are unable to park are displayed in red.

If the frame is displayed in red, you cannot use the parking assist mode to park in that location. See "● When a red frame is displayed in the assist mode" on page 229.

When the green frame is displayed, if you begin backing up without touching "OK", the message "Parking position has not been set." appears. If you continue to back up, you will hear a warning tone and the system will be disabled.

If the frame is red, there will be no guidance even if you begin backing up.

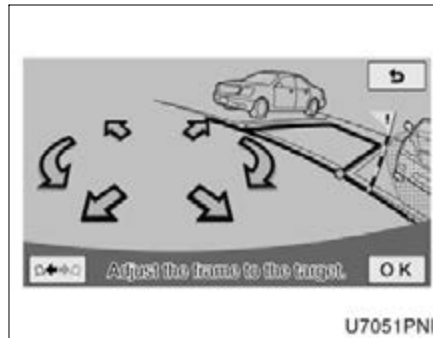
If the orientation of the frame is opposite to that of the target parking space, touch



ADVANCED PARKING GUIDANCE SYSTEM

There may be times when, due to image distortion, the green frame does not match the parking space lines on the road surface. In this case, attempt an approximate match in an area where the warning flag does not overlap with any parked vehicles or obstacles.

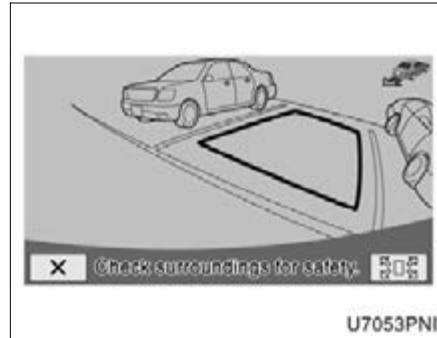
You may adjust the target parking position even after starting the parking assist mode.



CAUTION

- Always check that there are no obstacles in the green frame or between your vehicle and the parking space, and that the warning flag does not overlap any parked vehicles or walls.
- If there are obstacles in the green frame or between your vehicle and the parking space, or the warning flag overlaps a parked vehicle or wall, there is a danger of collision. In this case, do not use the parking assist mode.
- The warning flag is only a guide. Be sure to directly check your surroundings and behind the vehicle for safety, and back up carefully.
- If the road surface has level variations or a gradient between the starting position and target parking position, it will not be possible to correctly set the location, which may cause the parking position to be misaligned or crooked. In this case, do not use the parking assist mode.

- If the red area which denotes an area unsuitable for parking overlaps with the lines of the parking space, you will be unable to park, as the parking space is judged as being an area unsuitable for parking. Progress to a position where the parking space lines do not overlap with such an area.



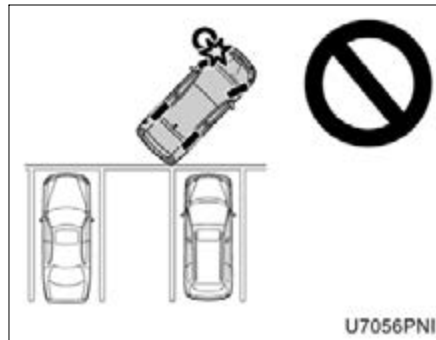
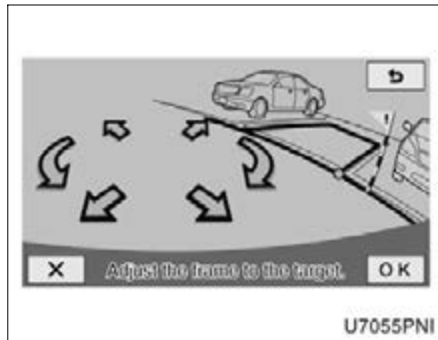
7. Position yourself as you would when backing up normally, and rest your hands on the steering wheel without applying any pressure. Check your surroundings and behind the vehicle for safety, and slowly back up, using the brake pedal to control the vehicle's speed.

If you touch **X**, assistance is canceled.

If the vehicle's backing up speed is too fast, a warning tone will sound and the message "Speed is too fast." will be displayed. If you continue to back up at that speed, the system will be disabled. Back up at a speed that does not cause the warning tone to sound.

The green frame displayed on the screen is approximately the same size as your vehicle. (The green frame displayed when setting the target parking position is the size of a normal parking space.)

ADVANCED PARKING GUIDANCE SYSTEM

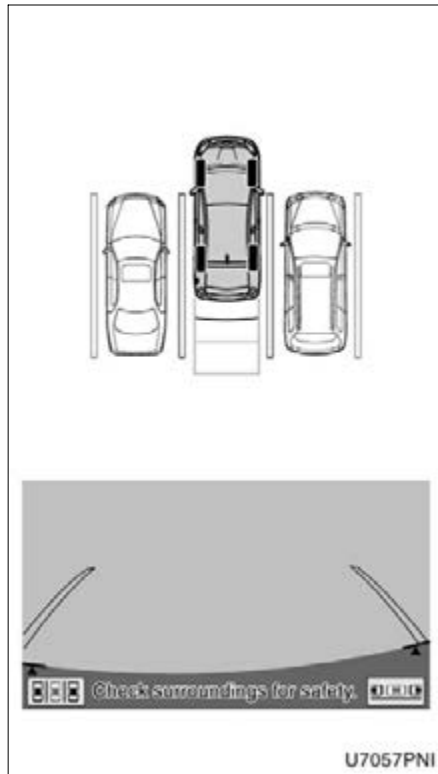


You can change the target parking position by touching . If you are backing up, or have already moved close to the target parking position,  will turn gray, and you will be unable to change the target.

Touch the arrows to move the target parking position, and then touch "OK".

CAUTION

- When backing up, be sure to check your surroundings and behind the vehicle for safety, and back up slowly, depressing the brake pedal to control vehicle speed.
- If you seem likely to hit nearby vehicles, obstacles or people, depress the brake pedal to stop the vehicle, then disable the system by touching  on the screen.



8. Once the vehicle is mostly within the target parking position, voice guidance will give a message, and parking assist mode will finish.

For safety, voice guidance is given slightly before the target parking position. Furthermore, at that point system control will finish, so grip the steering wheel firmly, and finish parking in the desired position, using the brake to control the vehicle's speed.

Check in front and behind the vehicle visually and check with the mirrors while backing up.

- **Tips for setting the target parking position**

Useful information for setting the target parking position (green frame)

THE DISPLAY POSITION OF THE GREEN FRAME

The system decides the initial positioning of the green frame by the position of the parking space detected by the front side sensors or the position of the vehicle when it stops, and by detecting the white lines of the parking space in the camera image to identify the parking space location.

The front side sensors identify the parking space location and the white lines near that location are detected.

The front side sensors cannot identify the parking space location, or the parking space location may be misaligned in the following situations.

- A vehicle is parked at the back of the parking space or the sensors cannot detect a parked vehicle due to vehicle shape etc.
- The sensors cannot detect a pole or wall beside the parking space.
- The sensors detect a pedestrian or object near the parking space.

If there are no vehicles parked on either side of the target parking space when your vehicle stops, the approximate parking space location is identified, and the white lines in that location are detected. For this reason, stopping in front of the parking space will make the detection of target parking space's white lines easier.

Successful detection of the parking space's white lines may not be possible, depending on the shape of the line.

In the following circumstances, detection of the parking space lines on the road surface may not be possible:

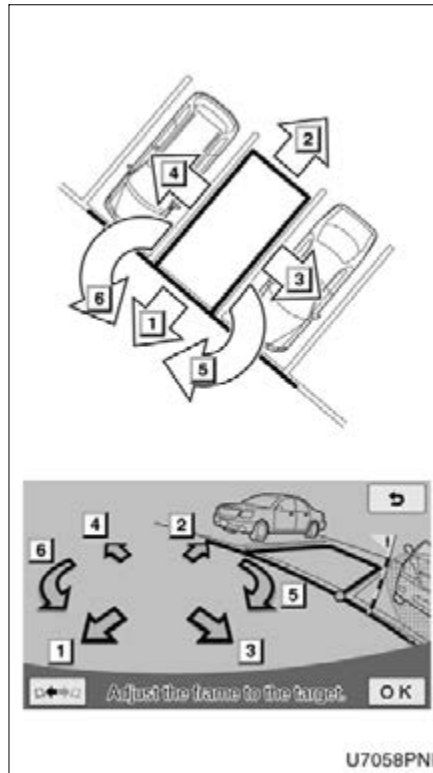
- The lines are faded or dirty, making them unclear.
- The road surface is of a light color which does not contrast well with the white lines.
- The parking space lines are a color other than white (yellow etc.).
- The area is dark, for example at night or in a covered parking lot.
- During or after rain, when the road surface is wet and reflects light, or puddles have formed.
- The sun is shining directly on the camera, for example early morning or late afternoon.
- The parking space is covered with snow or de-icing agent.
- There are markings or maintenance marks on the road surface.
- The color or brightness of the road surface is not uniform.
- Hot or cold water has splashed on the camera, and the lens is fogged.
- There are dirt or water droplets on the lens.

If the point at which you stop is correctly identified, the green frame will display the parking space accurately. If the white lines of the parking space have not been correctly identified, the green frame will not match the parking space even if you stop in the correct location. In this case, adjust the point at which you stop as needed.

ALIGNING THE GREEN FRAME

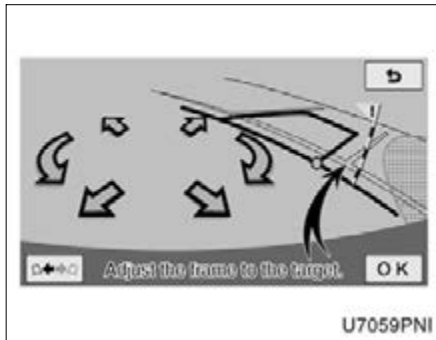
There are two ways to align the green frame with the parking space, either using the arrows on the screen, or by touching the screen at points other than the arrows.

Using the arrows on the screen



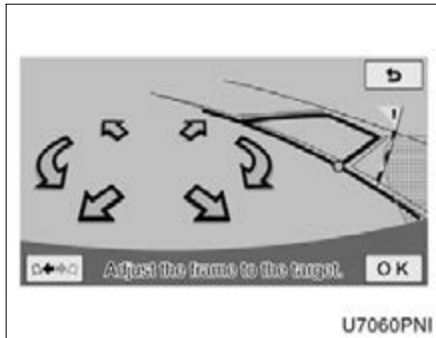
By touching the arrows displayed on the screen, you can move the green frame.

Directly touching the target point



By touching the point you wish to move the frame to, you can move the green frame.

1. Touch the front edge of the place you wish to move.

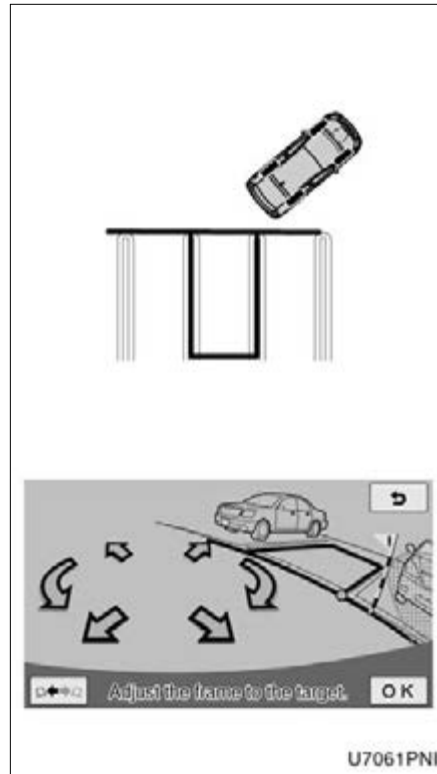


2. The frame will be moved as shown.

If you touch the following areas, the green frame will not move:

- The area surrounding the arrows.
- The area near the lower touch-screen button on the screen.
- Areas too far away to park in the range of 31.2 ft. (9.5 m) or more behind, and/or either left or right from the current position.

IF THE PARKING SPACE AND THE GREEN FRAME DO NOT MATCH



If the lines of the parking space are wider than the green frame, position the frame so that the difference between the frame and the parking space lines is equal on both sides.

— What to do when this sort of message is displayed

Message	Cause	What to do
! Parking position cannot be set.	Not in an area where system use is possible.	Change the vehicle's position, referring to the help function.
! Check APGS system. Have your vehicle checked by a dealer.	There is a malfunction in the system.	Have your vehicle checked by your Toyota dealer.
! Use on flat surface.	● The vehicle has rolled forward on a sloped road. ● The vehicle does not move even if you take your foot off the brake pedal.	Do not attempt to use the system in those sorts of conditions.
! System cannot guide under current conditions.	If the message is displayed only when the system is operating, it is likely that the tires are worn, or tire inflation pressure is low.	Check tires for wear and pressure.
	If the message is displayed constantly, there is most likely a malfunction.	Turn the "POWER" switch to OFF, then to ON mode. If the message is still displayed, have the vehicle checked by your Toyota dealer.
	The vehicle has skidded or the tires have been locked.	Do not attempt to use the system on a slippery road such as snowy road.
! APGS not available now.	The system has temporarily overheated.	Turn the "POWER" switch to OFF, then to ON mode. Wait a few moments before use.
	There is a malfunction in the voice guidance system.	Have your vehicle checked by your Toyota dealer.
	The hybrid system has not been started.	Turn the "POWER" switch to ON mode and start the hybrid system. If the message is still displayed, have the vehicle checked by your Toyota dealer.
! Release parking brake.	The parking brake has been applied.	Release the parking brake.
! Too much force applied to the steering wheel.	You are exerting too much pressure on the steering wheel.	Loosen your grip on the steering wheel.

ADVANCED PARKING GUIDANCE SYSTEM

Message	Cause	What to do
Steering position is not straight. Turn the steering wheel to LEFT (or RIGHT).	The steering wheel is not straight.	Straighten the steering wheel.
Steer to left (or right) until the frame becomes green.	It is possible to begin to park if you turn the steering wheel in the direction indicated.	Turn the steering wheel in the direction indicated until the frame turns green (the message "Too much force applied to the steering wheel" is displayed). Turn the wheel slightly more than necessary to overcome tire resistance. Once you have turned the steering wheel, you can no longer change the target parking position. Be sure to align the frame before turning the steering wheel.
! Parking position has not been set.	You have begun to back up without touching "OK".	Stop the vehicle and touch "OK".
! Speed is too fast.	The speed at which you are backing up is too fast.	Back up at a speed that does not cause the warning chime to sound, using the brake pedal. The system will be disabled if you back up too quickly.
! Guidance canceled by user operation.	You have turned the steering wheel or depressed the accelerator pedal during the assist mode.	The system has been disabled, so restart from the beginning.
! Accelerator pedal has been depressed.	You have depressed the accelerator pedal when setting the target parking position.	Do not depress the accelerator pedal.
! Guidance unavailable.	Some sort of malfunction has occurred within the system.	Have the vehicle checked by your Toyota dealer.
! System not ready.	–	Take your vehicle to your Toyota dealer.
! Clean Park Sonar.	In extreme cold weather or foreign matter gets on the sensors.	Have the vehicle checked by your Toyota dealer.

ADVANCED PARKING GUIDANCE SYSTEM

Message and voice guidance

In the parallel parking assist mode and parking assist mode, voice guidance accompanies the following messages displayed during parking position setting and steering wheel control. (Voice guidance may not be given depending on the reason the message was displayed.)

Message	Voice Guidance (Warning tone)	
	During setting	During steering wheel control
! Check APGS system. Have your vehicle checked by a dealer.	(One chime)	(Two beeps) The guidance has been canceled.
! System cannot guide under current conditions.	–	(Two beeps) The guidance has been canceled.
! APGS not available now.	(One chime)	(Two beeps) The guidance has been canceled.
! Release parking brake.	(One chime)	(Two beeps) The guidance has been canceled.
! Parking position has not been set.	(One chime)	–
! Speed is too fast.	–	(Several beeps and then two beeps) The guidance has been canceled.
! Guidance canceled by user operation.	–	(Two beeps) The guidance has been canceled.

For the adjustment of the volume, ask your Toyota dealer.

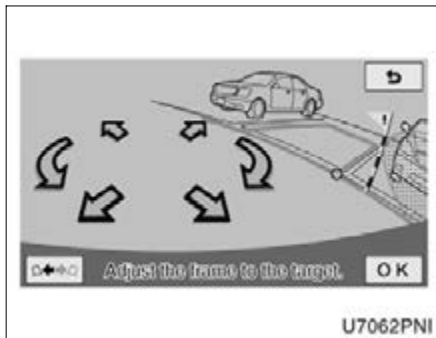
- **When a red frame is displayed in the assist mode**

If the frame turns red and the message "Adjust the frame to the target." is displayed while setting the target parking position, you cannot use the assist mode.

In this situation, move the target parking position, or move the position of the vehicle.

The frame may be displayed in red, depending on the location and angle of the vehicle when "R" is selected.

Furthermore, even if the frame is displayed in green, if you move the frame to a location unsuitable for parking using the assist mode, the frame will change to red.



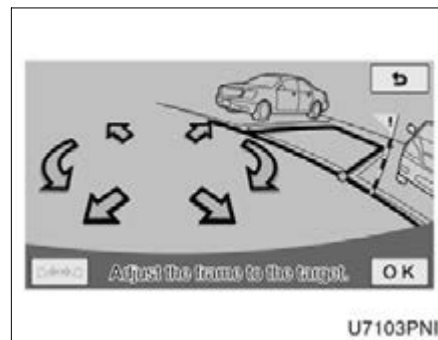
When in the parking assist mode, if the message "Steer to left (right) until the frame becomes green." is displayed, you may use the assist mode by turning the steering wheel.

1. **Align the frame with the target parking position.**

2. **While stopped, turn the wheel to the left (right) until the frame turns green and "Too much force applied to the steering wheel." is displayed.**

Turn the wheel slightly more than necessary to overcome tire resistance.

If you turn the wheel too far, the direction of turn displayed on the screen will reverse.



3. **Touch "OK".**

Once you have turned the steering wheel, you can no longer change the target parking position. Be sure to align the frame before turning the steering wheel.

ADVANCED PARKING GUIDANCE SYSTEM

HELP FUNCTION

If you touch **“OK”**, the reason the frame is displayed in red will be displayed. Move the vehicle appropriately, referring to the screen.

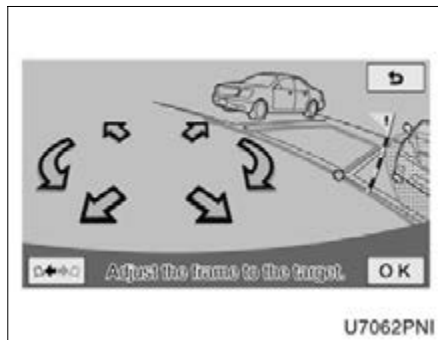
1. Touch **“OK”**.

2. Move the vehicle in accordance with the message displayed.

See the following items for information on the messages displayed.

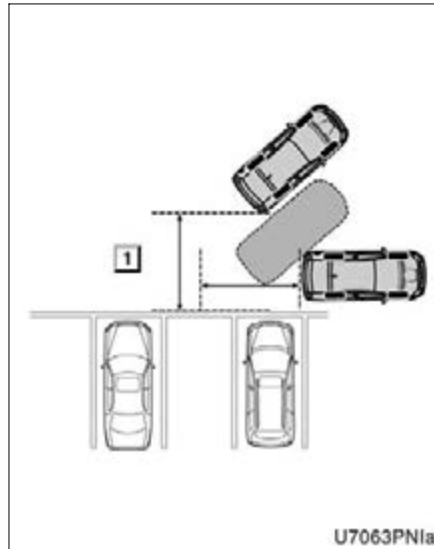
If you move the frame to a position acceptable to the assist mode, a chime will sound.

3. If you have moved the vehicle forwards, shift to **“R”**.



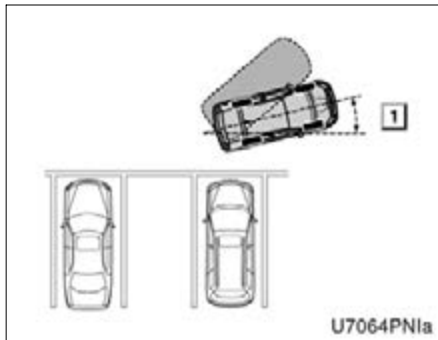
4. Check that the frame is green, and if that position is acceptable, touch **“OK”**.

DISPLAYED MESSAGE AND VEHICLE POSITION FOR PARKING ASSIST MODE



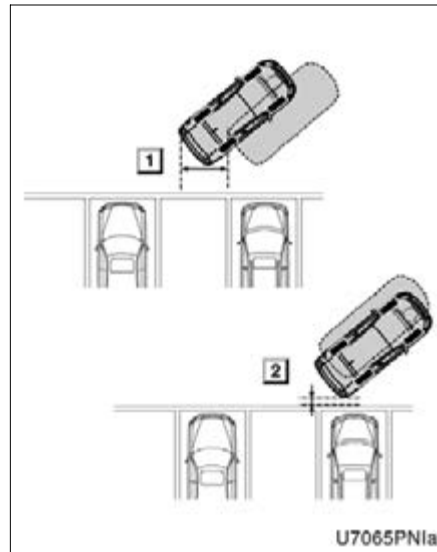
► 1 Too far

If the vehicle is too far from the parking space, the message “Start from a position nearer to the target parking area.” is displayed.



► **1 Angle too small**

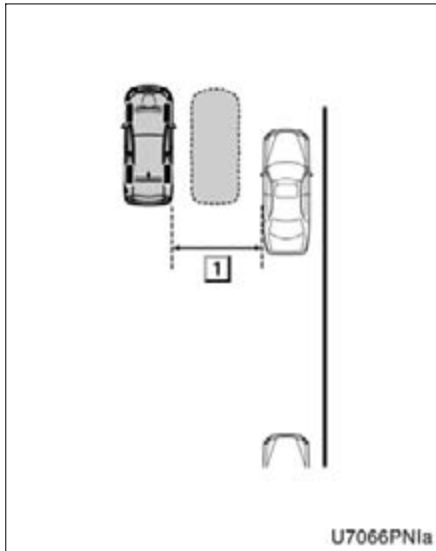
If the orientation of the vehicle is incorrect, the message "Start with larger vehicle heading angle." is displayed.



- **1 Near the front of the parking space**
2 Too close

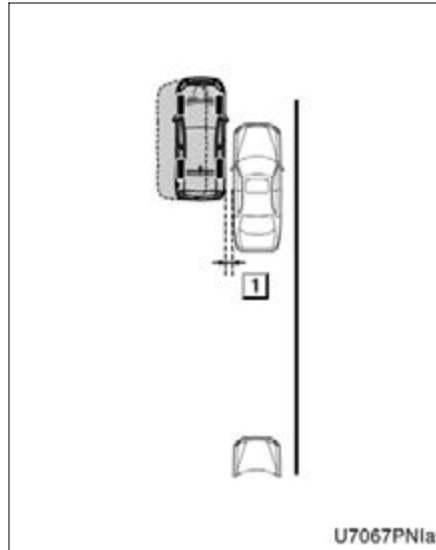
If the vehicle is near the front of the parking space, or too close, the message "Start from a position farther from the target parking area." is displayed.

DISPLAYED MESSAGE AND VEHICLE POSITION FOR PARALLEL PARKING ASSIST MODE



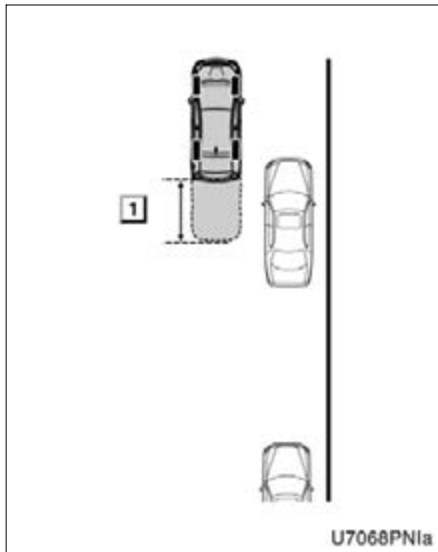
► **1 Too far**

If the vehicle is too far from other parked vehicles, the message “Start from a position nearer to adjacent vehicle.” is displayed.



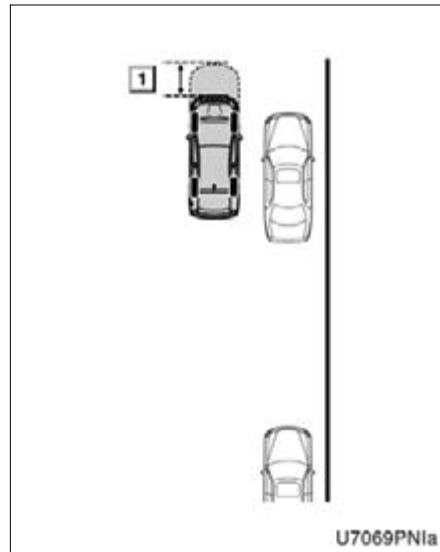
► **1 Too close**

If the vehicle is too close to other parked vehicles, the message “Start from a position farther from adjacent vehicle.” is displayed.



► **1 Too far forward**

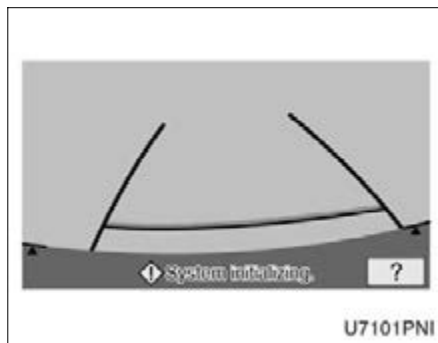
If the vehicle is too far forward, the message "Start after moving slightly backward." is displayed.



► **1 Too far back**

If the vehicle is too far back, the message "Start after moving slightly forward." is displayed.

— Initializing the system



How to correct

Make sure to initialize the system in the following situations.

- The 12 volt battery is disconnected and reconnected.
- The system initialization in progress screen is displayed when the shift position is moved to the "R" (due to low battery etc.).

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.

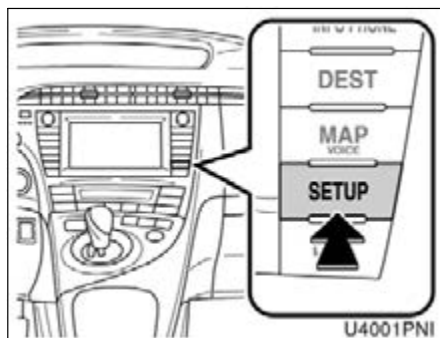
SECTION 8

SETUP

- General settings 236
(Used for language selection and the on/off settings of operation sounds and automatic screen change.)
- Clock settings 241
(Used for changing time zones and the on/off settings of daylight saving time.)
- Voice settings 242
(Voice guidance can be set.)
- Navigation settings 244
(“Home” and “Preset Destinations” can be set and edited.)
- Detailed navigation settings 245
(Average cruising speed, displayed screen contents, and POI icon categories can be set.)
- Telephone settings 254
(Bluetooth® phones can be registered.)
- Audio settings 292
(Settings are available for portable audio devices and Bluetooth® audio devices players.)
- Vehicle settings 300
(Vehicle information can be set.)

General settings

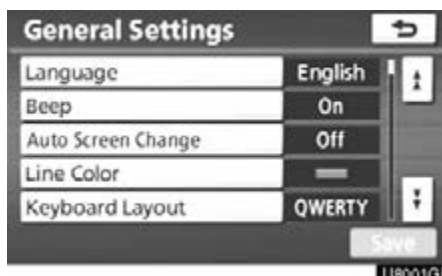
Used for language selection and the on/off settings of operation sounds and automatic screen change.



1. Push the “SETUP” button.



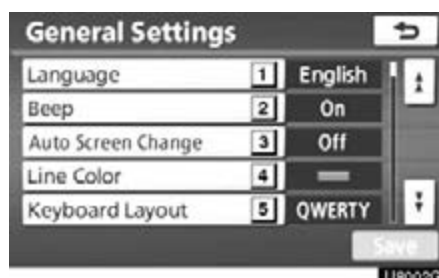
2. Touch “General”.



3. Touch the items to be set.

4. Touch “Save”.

SCREENS FOR GENERAL SETTINGS



On this screen, the following functions can be performed.

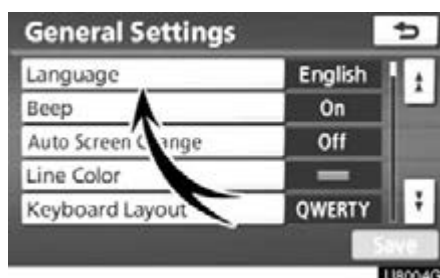
No.	Function
1	You can change the language. (See “● Selecting a language” on page 237.)
2	“On” or “Off” can be selected to sound beeps.
3	“On” or “Off” can be selected for automatic screen changes from the audio screen to the map. When “On” is selected, the screen will automatically return to the map from the audio screen after 20 seconds.

No.	Function
4	Line color can be changed. (See “● Selecting the line color” on page 238.)
5	Keyboard layout can be changed. (See “● Selecting a keyboard layout” on page 239.)
6	Distance unit can be changed. (See “● Unit of measurement” on page 238.)
7	The personal data can be deleted. (See “● Delete personal data” on page 240.)

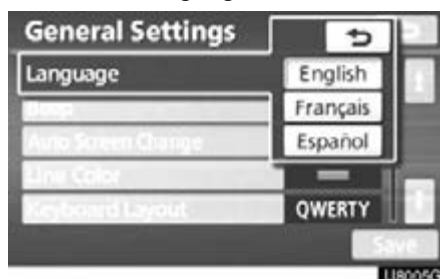
● Selecting a language

You can change the language.

1. Push the “**SETUP**” button.
2. Touch “**General**” on the “**Setup**” screen.



3. Touch “**Language**”.



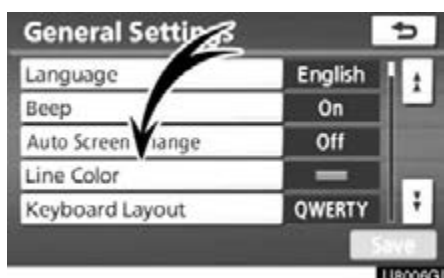
4. Touch the desired button.
The previous screen will be displayed.
5. Touch “**Save**”.

SETUP

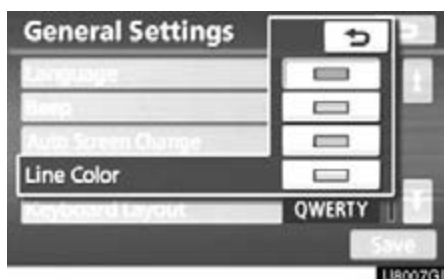
- **Selecting the line color**

Line color can be changed.

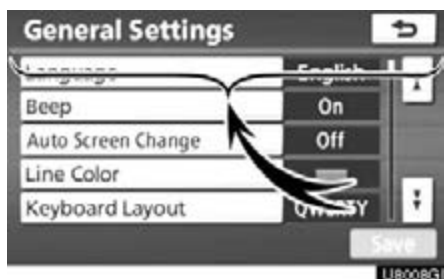
1. Push the “SETUP” button.
2. Touch “General” on the “Setup” screen.



3. Touch “Line Color”.



4. Touch the desired color.



The line color will be changed.

5. Touch “Save”.

- **Unit of measurement**

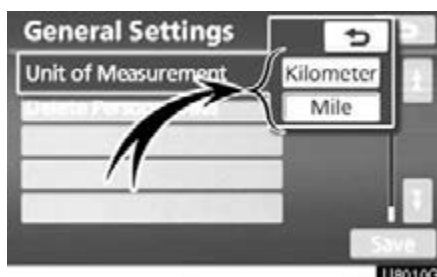
Distance unit can be changed.

1. Push the “SETUP” button.
2. Touch “General” on the “Setup” screen.

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



3. Touch “Unit of Measurement”.



4. Select “Kilometer” or “Mile”.
5. Touch “Save”.

INFORMATION

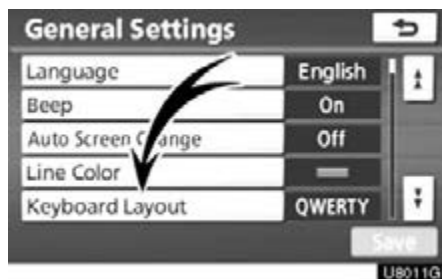
This function is available only in English or Spanish. To switch language, see “● Selecting a language” on page 237.

- **Selecting a keyboard layout**

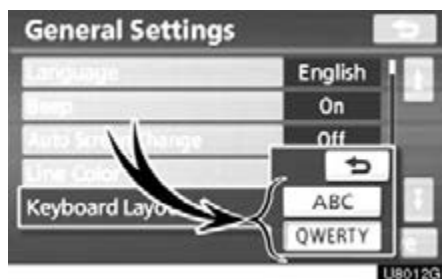
Keyboard layout can be changed.

1. Push the “SETUP” button.
2. Touch “General” on the “Setup” screen.

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



3. Touch “Keyboard Layout”.



4. Touch “ABC” or “QWERTY” of “Keyboard Layout” to choose the keyboard layout.

5. Touch “Save”.

LAYOUT TYPE



- “ABC” type



- “QWERTY” type

SETUP

- **Delete personal data**

The following personal data can be deleted or returned to their default settings:

- Maintenance conditions
- Maintenance information “off” setting
- Address book
- Areas to avoid
- Previous points
- Route trace
- Phonebook data
- Call history data
- Speed dial data
- Voice tag data
- Bluetooth® phone data
- Phone volume setting
- Details phone setting

This function is available only when the vehicle is not moving.

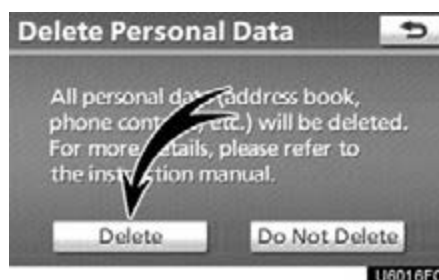
1. Push the “SETUP” button.

2. Touch “General” on the “Setup” screen.

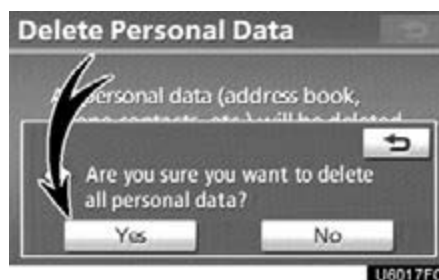
Then touch  to display page 2 of the “General Settings” screen.



3. Touch “Delete Personal Data”.



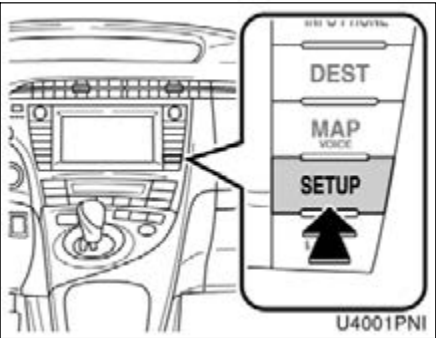
4. Touch “Delete”.



5. Touch “Yes”.

Clock settings

Used for changing time zones and the on/off settings of daylight saving time.



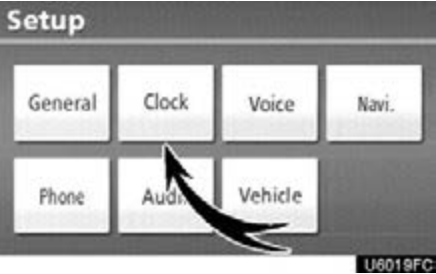
SCREEN FOR CLOCK SETTINGS



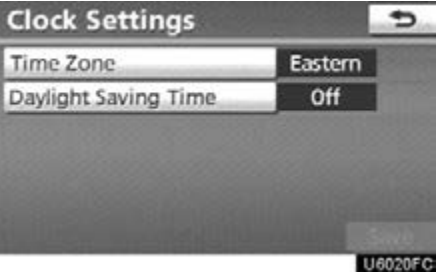
On this screen, the following functions can be performed.

No.	Function
1	Time zone can be changed. (See "● Time zone" on page 242.)
2	"On" or "Off" can be selected for daylight savings time.

1. Push the "SETUP" button.



2. Touch "Clock".



3. Touch the items to be set.

4. Touch "Save".

SETUP

- **Time zone**

A time zone can be selected and GMT can be set.

1. Push the “SETUP” button.
2. Touch “Clock” on the “Setup” screen.



3. Touch “Time Zone”.



4. Touch the desired time zone.

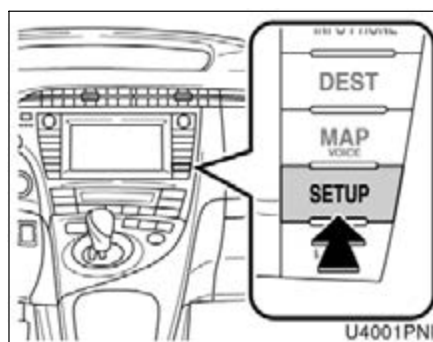
If you touch “Other”, adjust the zone manually.



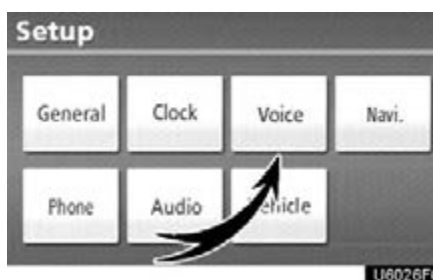
5. Touch “OK”.

Voice settings

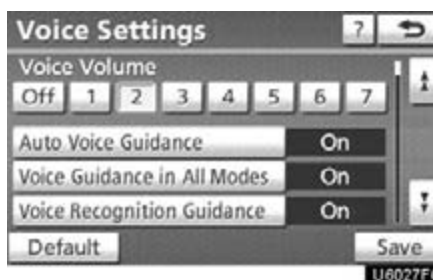
Voice guidance can be set.



1. Push the “SETUP” button.

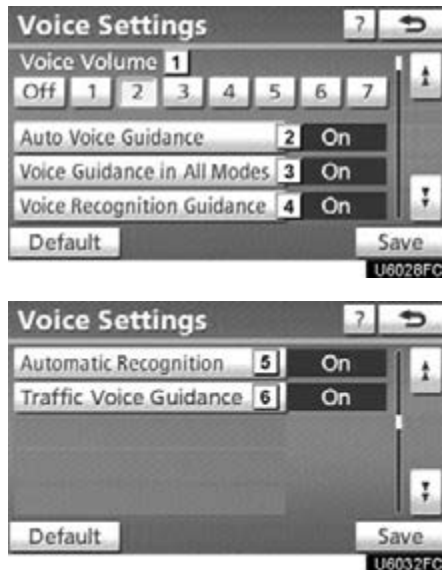


2. Touch “Voice”.



3. Touch the items to be set.
4. Touch “Save”.

SCREEN FOR VOICE SETTINGS



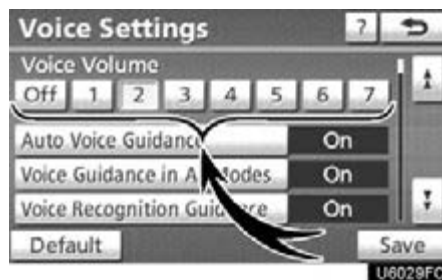
On this screen, the following functions can be performed.

No.	Function
1	The voice guidance volume can be adjusted or switched off. (See "● Voice volume" on page 243.)
2	Voice guidance during route guidance can be set to "On" or "Off".
3	Voice guidance during audio system use can be set to "On" or "Off".
4	Voice recognition talkback can be set to "On" or "Off".
5	When "On" is selected, the speech command system can be operated without pressing the talk switch more than once.
6	When using the traffic information function, voice guidance can be set to "On" or "Off".

● Voice volume

The voice guidance volume can be adjusted or switched off.

1. Push the "SETUP" button.
2. Touch "Voice" on the "Setup" screen.



3. Select the desired level by touching the number.

If voice guidance is not needed, touch "Off" to disable the feature.

When selected the number or "Off" will be highlighted.

4. Touch "Save".

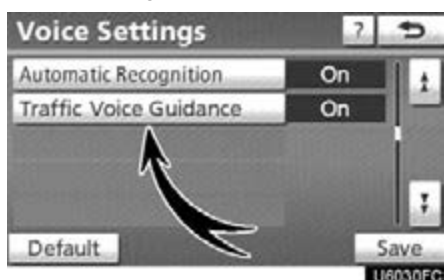
Traffic voice guidance

You can receive congestion information through voice guidance while being guided to your destination.

To turn the "Traffic Voice Guidance" on:

1. Push the "SETUP" button.
2. Touch "Voice" on the "Setup" screen.

Then touch  to display page 2 of the "Voice Settings" screen.



3. Select "On" of the "Traffic Voice Guidance".

4. Touch "Save".

INFORMATION

- This function is available only in English. To select English, see "● Selecting a language" on page 237.
- When the "Traffic Information" indicator is dimmed, "Auto Avoid Traffic", "Traffic Voice Guidance" and "Show Free Flowing Traffic" will not operate.

Navigation settings

Points or areas on the map can be registered.



On this screen, the following operations can be performed.

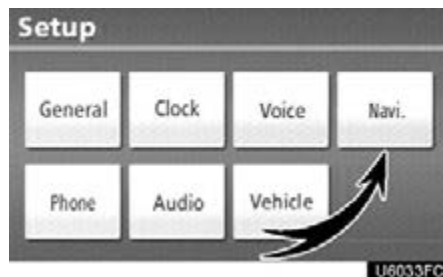
No.	Function
1	Sets home (See page 101.)
2	Sets preset destinations (See page 103.)
3	Sets address book (See page 106.)
4	Sets area to avoid (See page 112.)
5	Deletes previous destinations (See page 117.)
6	Detailed navigation settings (See page 245.)

Detailed navigation settings

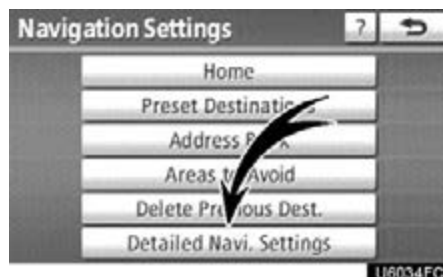
Average cruising speed, displayed screen contents, and POI icon categories can be set.



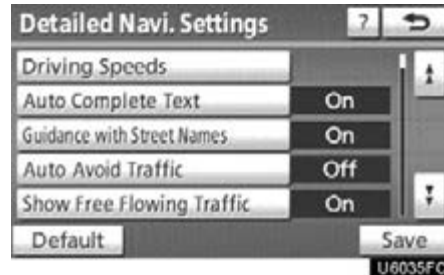
1. Push the "SETUP" button.



2. Touch "Navi.".



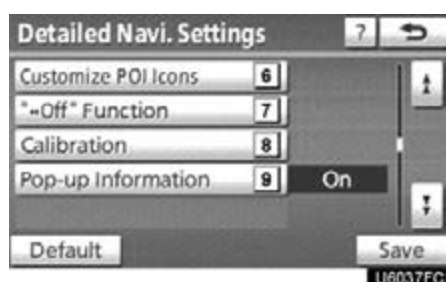
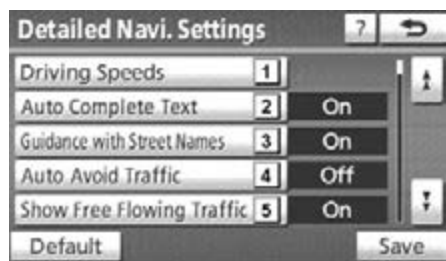
3. Touch "Detailed Navi. Settings".



4. Touch the items to be set.
5. Touch "Save".

SETUP

SCREENS FOR NAVIGATION SETTINGS



No.	Function
6	Displayed POI icon categories can be set. (See “● POI category change (Select POI icons)” on page 249.)
7	Buttons displayed on the map screen when “◀◀Off” is touched can be set. (See “● Screen layout function (“◀◀Off” function)” on page 250.)
8	The current vehicle position mark can be adjusted manually. Miscalculation of the distance caused by tire replacement can also be adjusted. (See “● Current position/tire change calibration” on page 251.)
9	Display of pop-up information can be set to “On” or “Off”. (See “● Pop-up information” on the page 253.)

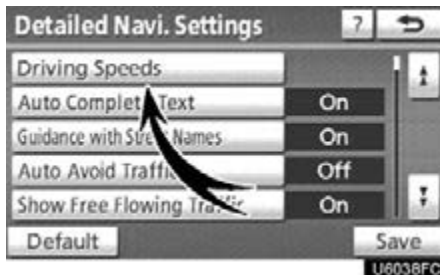
On this screen, the following functions can be performed.

No.	Function
1	Average cruising speed can be set. (See “● Driving speeds” on page 247.)
2	The automatic input function can be set to “On” or “Off”.
3	During route guidance, voice guidance for the next street name can be set to “On” or “Off”.
4	“On” or “Off” can be selected to display cautionary messages when the route includes traffic restrictions or seasonally restricted roads.
5	When “On” is selected, freely flowing traffic can be shown with the arrow.

- **Driving speeds**

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

1. Push the “SETUP” button.
2. Touch “Navi.” on the “Setup” screen.
3. Touch “Detailed Navi. Settings” on the “Navigation Settings” screen.



4. Touch “Driving Speeds”.



5. Touch ◀ or ▶ to set the average vehicle speeds for “Residential”, “Main Streets”, and “Freeways”.

To set the default speeds, touch “Default”.

6. After setting of the desired speeds is completed, touch “Save”.

INFORMATION

- *The displayed time to the destination is the approximate driving time that is calculated based on the selected speeds and the 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.*

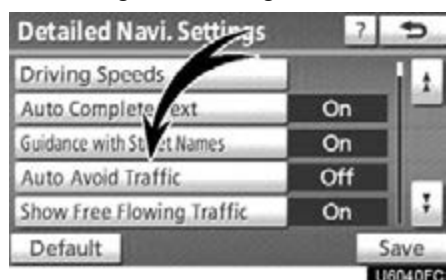
SETUP

- **Auto avoid traffic**

The guidance route automatically changes to another route to avoid heavy congestion.

To turn the "Audio Avoid Traffic" on:

1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.
3. Touch "Detailed Navi. Settings" on the "Navigation Settings" screen.



4. Touch "On" of the "Auto Avoid Traffic".
5. Touch "Save".



When congestion information about the guidance route has been received, a screen will appear to ask you whether to reroute to avoid the congestion.

If you wish to reroute, touch "Yes". Another route to allow you to avoid the congestion will appear.

If you do not wish to reroute, touch "No".

INFORMATION

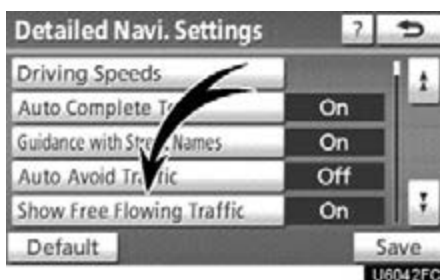
When the "Traffic Information" indicator is dimmed, "Auto Avoid Traffic", "Traffic Voice Guidance" and "Show Free Flowing Traffic" will not operate.

- **Show free flowing traffic**

Freely flowing traffic is shown with the arrow.

To turn the "Show Free Flowing Traffic" on:

1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.
3. Touch "Detailed Navi. Settings" on the "Navigation Settings" screen.



4. Select "On" of the "Show Free Flowing Traffic".
5. Touch "Save".

INFORMATION

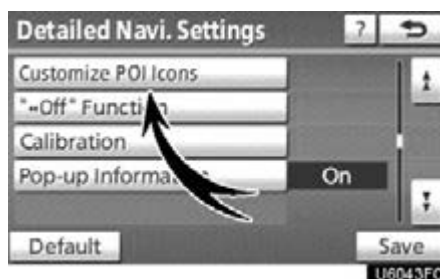
When the "Traffic Information" indicator is dimmed, "Auto Avoid Traffic", "Traffic Voice Guidance" and "Show Free Flowing Traffic" will not operate.

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

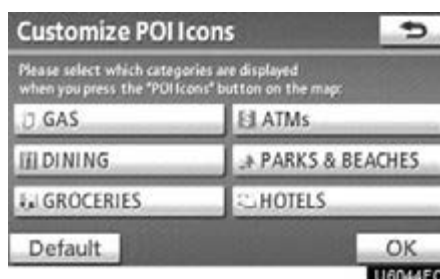
Select from among the 6 icons displayed on the "Customize POI Icons" screen, so that setting of the icons to be displayed on the map screen can be done easily.

1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.
3. Touch "Detailed Navi. Settings" on the "Navigation Settings" screen.

Then touch  to display page 2 of the "Detailed Navi. Settings" screen.



4. Touch "Customize POI Icons".



5. Touch the category button to be changed.

SETUP



6. Touch the desired group.

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



7. Touch the desired category.

8. Touch “OK”.

• Screen layout function (“◀◀Off” Function)

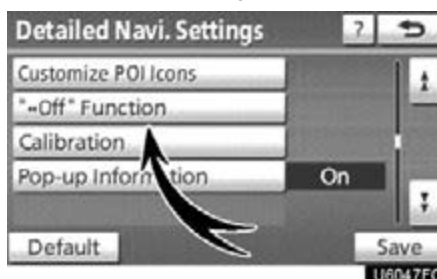
Each touch screen button and current street name on the map screen can be displayed or hidden.

1. Push the “SETUP” button.

2. Touch “Navi.” on the “Setup” screen.

3. Touch “Detailed Navi. Settings” on the “Navigation Settings” screen.

Then touch  to display page 2 of the “Detailed Navi. Settings” screen.



4. Touch “◀◀Off” Function”.



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

To set the default, touch “Default”.

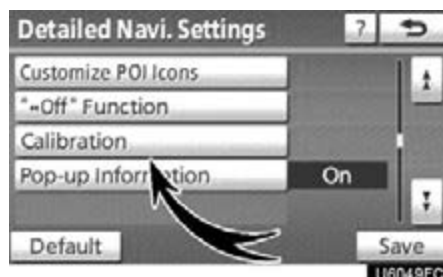
6. Touch “Save”.

- **Current position/tire change calibration**

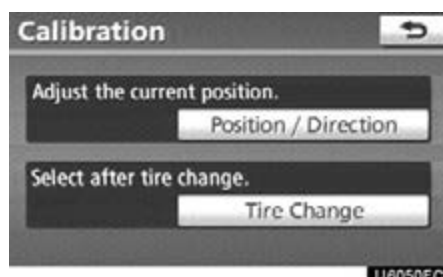
The current vehicle position mark can be adjusted manually. Miscalculation of the distance caused by tire replacement can also be adjusted.

1. Push the "SETUP" button.
2. Touch "Navi." on the "Setup" screen.
3. Touch "Detailed Navi. Settings" on the "Navigation Settings" screen.

Then touch  to display page 2 of the "Detailed Navi. Settings" screen.



4. Touch "Calibration".



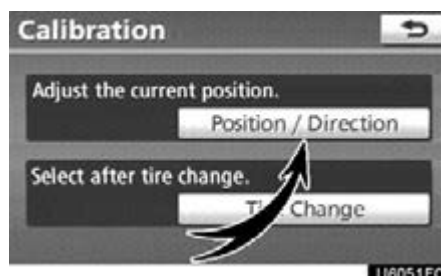
5. Touch the desired button.

INFORMATION

For additional information on the accuracy of a current vehicle position, see "Limitations of the navigation system" on page 306.

POSITION/DIRECTION CALIBRATION

When driving, the current vehicle position mark will be automatically corrected by 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 8 directional touch screen button to move the cursor  to the desired point on the map.
3. Touch "OK".

SETUP



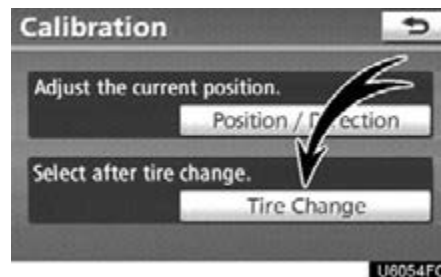
4. Touch either the  or  to adjust the direction of the current vehicle position mark.

5. Touch “OK”.

The map will be displayed.

TIRE CHANGE CALIBRATION

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



To perform a distance calibration procedure, touch “Tire Change” on the “Calibration” screen.

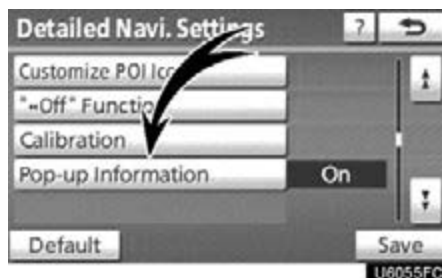
The message appears and the quick distance calibration is automatically started. A few seconds later, a map will be displayed.

● **Pop-up information**

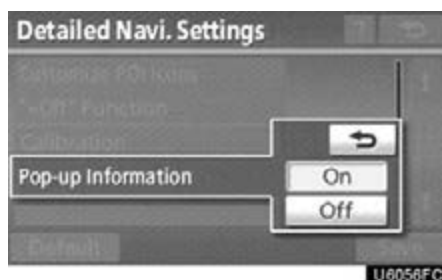
When the “Pop-up information” is turned on, the pop-up information will be displayed.

1. Push the “SETUP” button.
2. Touch “Navi.” on the “Setup” screen.
3. Touch “Detailed Navi. Settings” on the “Navigation Settings” screen.

Then touch  to display page 2 of the “Detailed Navi. Settings” screen.

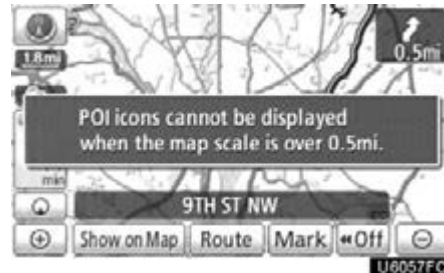


4. Touch “Pop-up Information”.

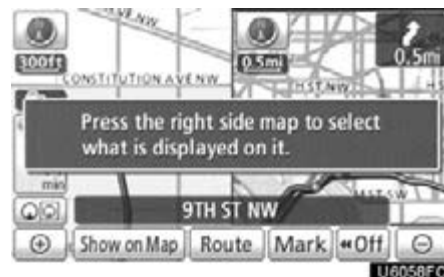


5. Touch “On” or “Off”.
6. Touch “Save”.

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



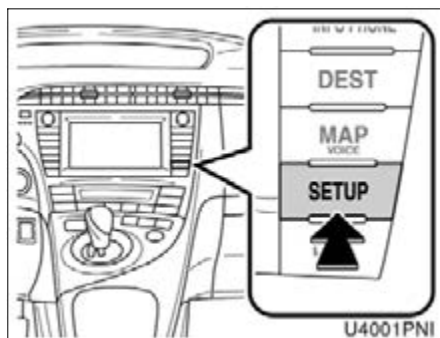
This message appears when the system is in the POI mode and the map scale is over 0.5 miles (1 km).



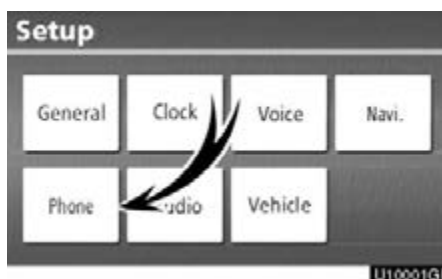
The message appears when the map is switched to the twin map screen mode.

Telephone settings —

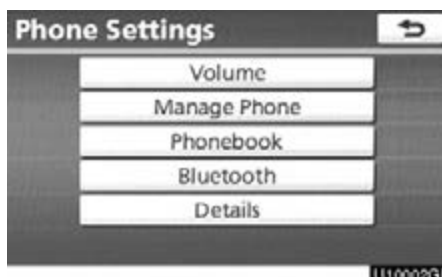
“Telephone settings” can be changed on the “Phone settings” screen.



1. Push the “SETUP” button.



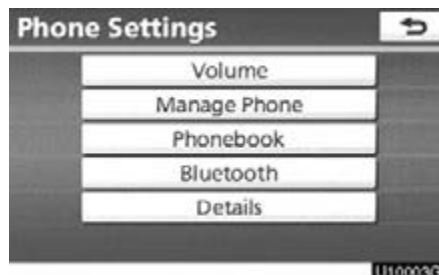
2. Touch “Phone”.



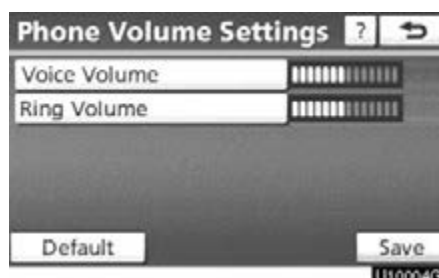
Please refer to the following pages for each setting.

— Volume setting

You can adjust the voice and ring volume.



1. Touch “Volume”.



2. Change each setting according to the following procedures.

3. When you complete all settings, touch “Save”.

Automatic volume settings for high speed

The system will automatically increase the volume by one step up when the speed exceeds 50 mph (80 km/h).

- Voice volume setting

1. Touch "Voice Volume".



2. Touch "–" or "+" to adjust the voice volume.
3. Touch "OK".

- Initializing the settings

You can initialize the settings.

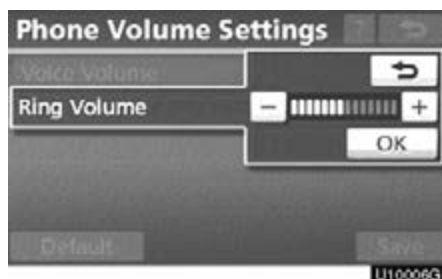
1. Touch "Default".



2. Touch "Yes".

- Ring volume setting

1. Touch "Ring Volume".

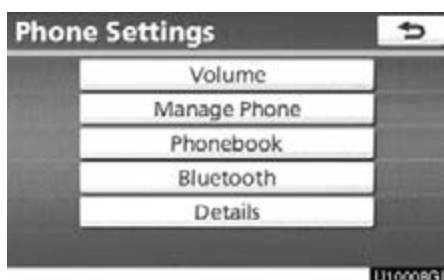


2. Touch "–" or "+" to adjust the ring volume.
3. Touch "OK".

— Manage phone

“Manage phone” is accessed from the “Connect Phone” screen.

1. Push the “SETUP” button.
2. Touch “Phone”.



3. Touch “Manage Phone”.



Please refer to the following pages for each setting.

• Registering a Bluetooth® phone



1. Touch “(add new)” to register your cellular phone to the system.



2. When this screen is displayed, input the passcode 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”.



3. When the connection is completed, this screen is displayed.

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



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

When another Bluetooth® device is connected



When another Bluetooth® device is currently connected, this screen is displayed. If you want to disconnect it, touch “Yes”.

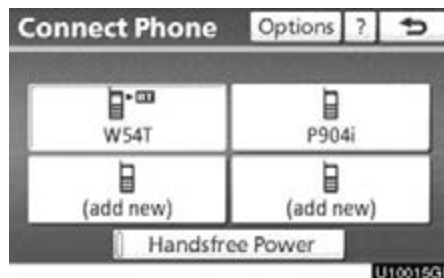
INFORMATION

When you register your phone, Bluetooth® audio will disconnect. It will reconnect automatically when you finish registration. It will not be reconnected depending on the phone you are using.

SETUP

You can also register a new Bluetooth® phone in the following way.

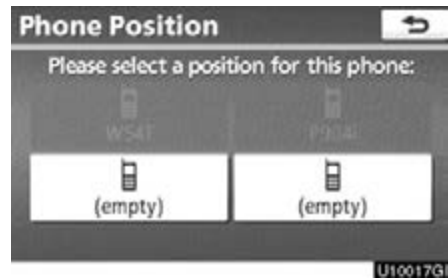
1. Push the “SETUP” button.
2. Touch “Phone”.
3. Touch “Manage Phone”.



4. Touch “Options”.



5. Touch “New Phone”.



6. Touch “(empty)” to register your cellular phone to the system.

The following operations are the same as the operation after you touch “(add new)”.

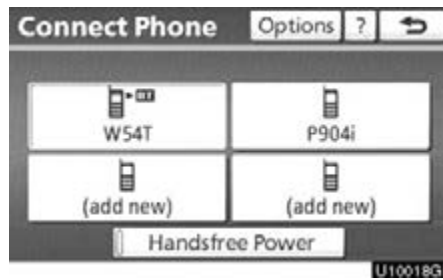
- **Selecting a Bluetooth® phone**

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

You can select the Bluetooth® phone from a maximum of 4 numbers.

“(add new)” is displayed when you have not registered a Bluetooth® phone yet.

Although you can register up to 4 Bluetooth® phones in the system, only one Bluetooth® phone can function at a time.



1. Select the phone to connect.

The Bluetooth® mark is displayed when you connect the phone.



2. The “Connect Bluetooth*” screen is displayed.

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



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

SETUP

When you connect the phone while Bluetooth® audio is playing



This screen is displayed, and the Bluetooth® audio will stop temporarily.

When another Bluetooth® device is connected



When another Bluetooth® device is currently connected, this screen is displayed. If you want to disconnect it, touch **“Yes”**.

Setting the handsfree power

You can select the state of “Handsfree Power”.



The state changes between “On” and “Off” every time you touch “Handsfree Power”.

For the “Handsfree Power”, see “Changing the handsfree power” on page 286.

- **Editing the Bluetooth® phone**

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

“Device Name”

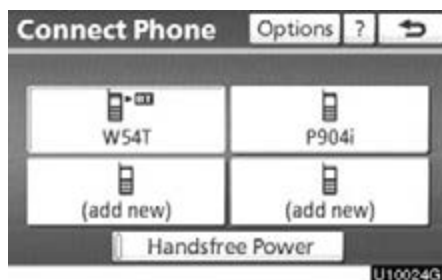
..... The name of Bluetooth® phone which is displayed on the screen. You can change it into a desired name.

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

“Device Address”

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

If you have registered two Bluetooth® phones with the same device name and you cannot distinguish one from the other, refer to it.



1. Touch “Options”.



2. Touch “Edit Phones”.



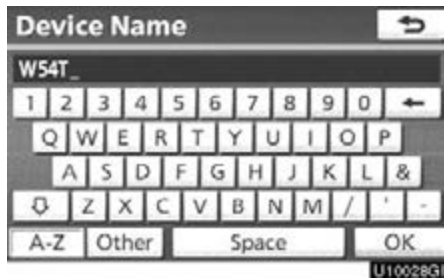
3. Select the phone to edit.



4. This screen is displayed.

If you want to change the device name, touch “Edit”.

SETUP

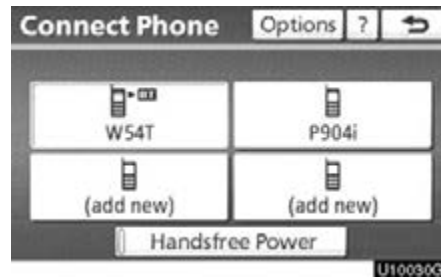


5. Use the software keyboard to input the device name.



6. Confirm the device name and touch "OK".

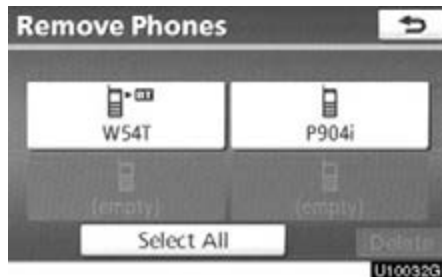
• Deleting a Bluetooth® phone



1. Touch "Options".



2. Touch "Remove Phones".



3. Select the desired phone or touch "Select All", then touch "Delete".

You can select multiple phones and delete them at the same time.



4. Touch "Yes".

INFORMATION

When you delete a Bluetooth® phone, the phonebook data will be deleted at the same time.

• By voice recognition



You can operate "Connect Phone" by giving a command.

"Connect Phone" includes "Select Phone", "Add New Phone" and "Handsfree Power Off" (On).

The operating procedure is similar to other voice recognition. (For the operation of voice recognition, see "Speech command system" on page 44.)

When you select the command of "Add New Phone", you must carry out the following operation on the screen.

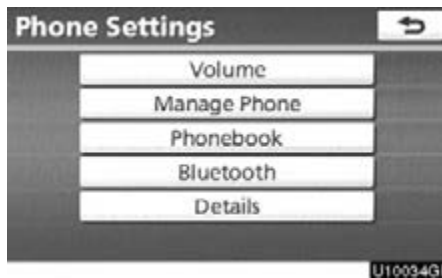
— Phonebook

INFORMATION

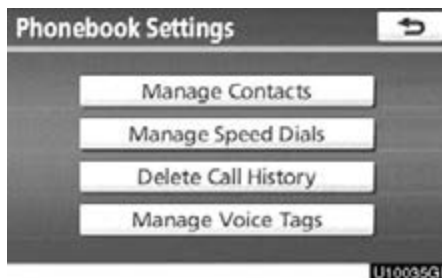
Phonebook data is managed for every registered phone. When another phone is connecting, you can not read the registered data.

“Phonebook” is accessed from the “Phonebook Settings” screen.

1. Push the “SETUP” button.
2. Touch “Phone”.



3. Touch “Phonebook”.

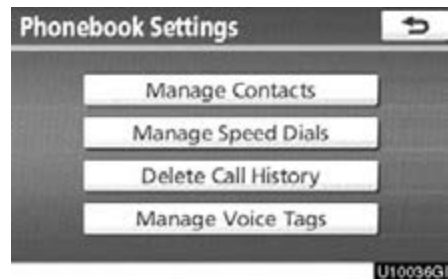


Please do each setting from this screen.

— Setting the phonebook

“Setting the phonebook” is accessed from the “Contacts” screen.

1. Push the “SETUP” button.
2. Touch “Phone”.
3. Touch “Phonebook”.



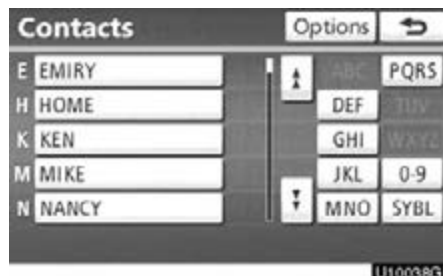
4. Touch “Manage Contacts”.



Please refer to the following pages for each setting.

You can also display the “Contacts” screen in the following way.

1. Push the “INFO-PHONE” button.
2. Touch “Phone”.
3. Touch “Contacts”.



4. Touch “Options”.

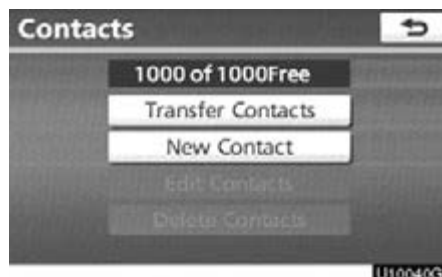


5. Touch “Manage Contacts”.

• Transferring a phone number

You can transfer the phone numbers in your Bluetooth® phone to the system. The phonebook manages a maximum of 4 phonebooks in all. Up to 1000 person's data (up to 3 numbers a person) can be registered in total of phonebooks.

Transfer it while the hybrid system is operating.



1. Touch “Transfer Contacts”.



2. Touch “Replace Contacts” or “Add Contacts”.

In case that the phonebook contains phonebook data, this screen is displayed.



3. Transfer the phonebook 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.

When you have touched “Replace Contacts”:

If your cellular phone does not support PBAP or OPP service, you can not use this function.

If your phone supports PBAP service, you can transfer the phonebook data without operating your phone.

If your phone does not support PBAP service, you must transfer the phonebook data by operating your phone.

When you have touched “Add Contacts”:

If your cellular phone does not support OPP service, you can not use this function.

You can transfer the phonebook data only by operating your phone.



4. In case that you have touched “Add Contacts”, this screen is displayed.

If you want to transfer another phonebook, touch “**Yes**”.



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

When another Bluetooth® device is connected



When another Bluetooth® device is currently connected, this screen is displayed. If you want to disconnect it, touch “Yes”.

INFORMATION

Bluetooth® audio will disconnect during transfer on phonebook data. In this case, it will reconnect automatically when data transfer finishes. (It will not be reconnected depending the phone you are using.)

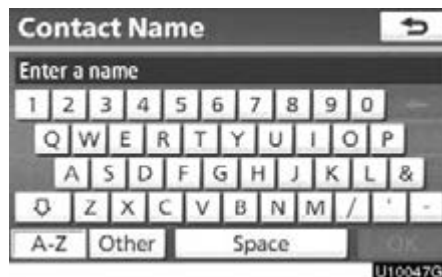
• Registering the phonebook data

You can register the phonebook data.

Up to 3 numbers per person can be registered.

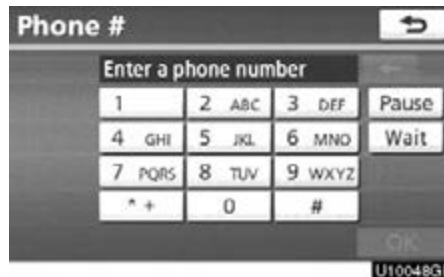


1. Touch “New Contact”.



2. Use the software keyboard to input the name and touch “OK”.

SETUP



3. Input the phone number and touch "OK".

If you want to use the tone signal after the phone number, input the tone signal too.



5. When two or less numbers in total are registered to this contact, this screen is displayed.

When you want to add a number to this contact, touch "Yes".



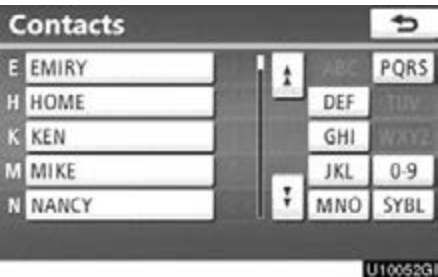
4. Select the phone type.

● Editing the phonebook data

You can register the phone number in “Phone#1”, “Phone#2” and “Phone#3” separately.



1. Touch “Edit Contacts”.



2. Select the data you want to edit.



3. Touch “Edit” for the desired name or number.

4. Edit the name or the number. (See “● Registering the phonebook data” on page 267.)

5. When you complete the edit, touch “Save”.

SETUP

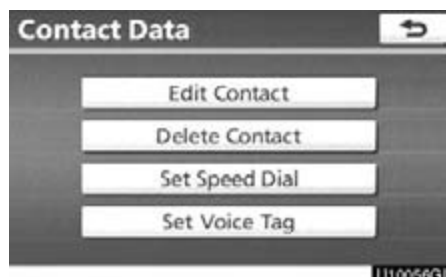
You can also display the “Edit Contact” screen in the following ways.

From “Contact Data” screen

1. Push the “INFO-PHONE” button.
2. Touch “Phone”.
3. Touch “Contacts”.
4. Select the desired data from the list.



5. Touch “Options”.



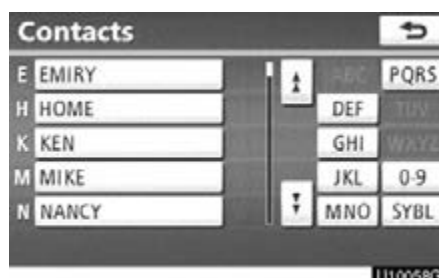
6. Touch “Edit Contact”.

From “Call History” screen

1. Push the “INFO-PHONE” button.
2. Touch “Phone”.
3. Touch “Call History”.
4. Select the desired number from the list.



5. Touch “Add Contact” or “Update Contact”.



6. In case that you have touched “Update Contact”, this screen is displayed. Select the desired data from the list.

- Deleting the phonebook data

You can delete the data.

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



1. Touch "Delete Contacts".



2. Select the desired data or touch "Select All", then touch "Delete".

You can select multiple data and delete them at the same time.



3. Touch "Yes".

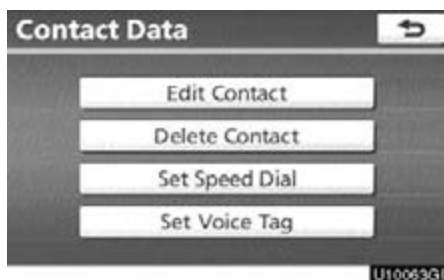
SETUP

You can also delete it in the following way.

1. Push the “INFO-PHONE” button.
2. Touch “Phone”.
3. Touch “Contacts”.
4. Select the desired data from the list.



5. Touch “Options”.



6. Touch “Delete Contact”.



7. Touch “Yes”.

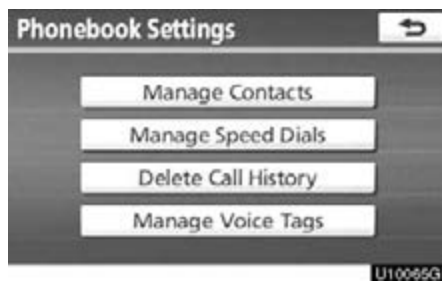
INFORMATION

When you delete a Bluetooth® phone, the phonebook data will be deleted at the same time.

— Speed dials setting

“Speed dials setting” is accessed from the “Speed Dials” screen.

1. Push the “SETUP” button.
2. Touch “Phone”.
3. Touch “Phonebook”.



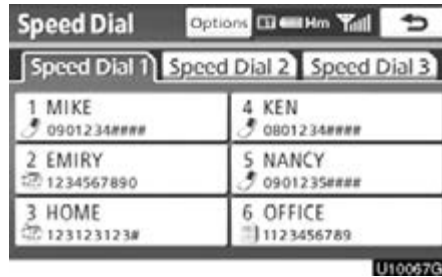
4. Touch “Manage Speed Dials”.



Please refer to the following pages for each setting.

You can also display the “Speed Dials” screen in the following way.

1. Push the “INFO-PHONE” button.
2. Touch “Phone”.
3. Touch “Speed Dials”.



4. Touch “Options”.

SETUP

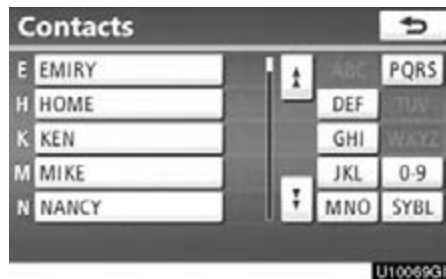
- Registering the speed dial

You can register the desired phone number from phonebook. Up to 18 numbers per phone can be registered.



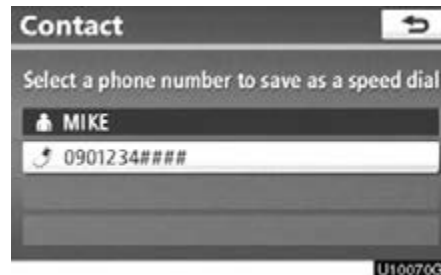
U10068G1

1. Touch "New Speed Dial".



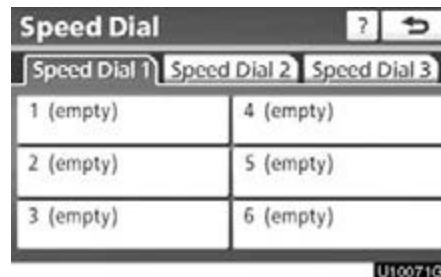
U10069G1

2. Select the data you want to register.



U10070G1

3. Touch the desired phone number.



U10071G1

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



5. If you select a touch-screen button you registered before, this screen is displayed.
Touch “Yes” if you want to replace it.

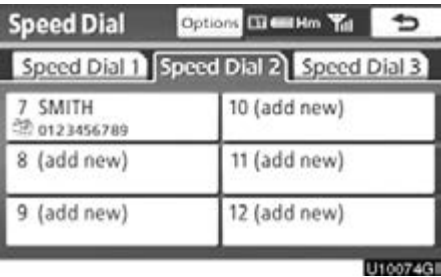


6. When this screen is displayed, the operation is complete.

You can also register the speed dial in the following ways.

From “Speed Dial” screen

- 1. Push the “INFO-PHONE” button.
- 2. Touch “Phone”.
- 3. Touch “Speed Dials”.

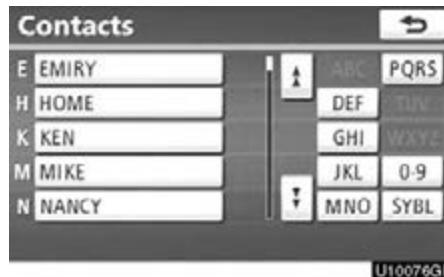


- 4. Touch “(add new)”.

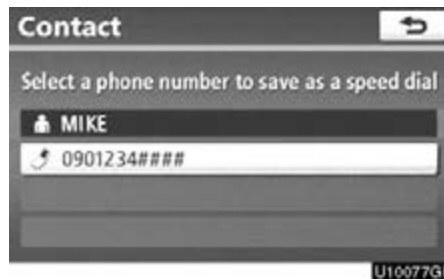


- 5. Touch “Yes” to set new speed dial.

SETUP



6. Select the data you want to register.



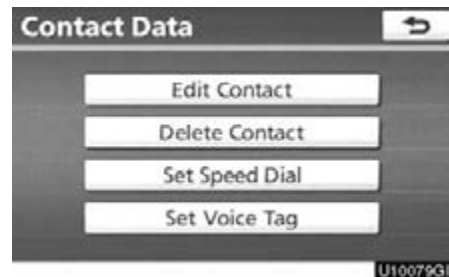
7. Touch the desired phone number.

From "Contact Data" screen

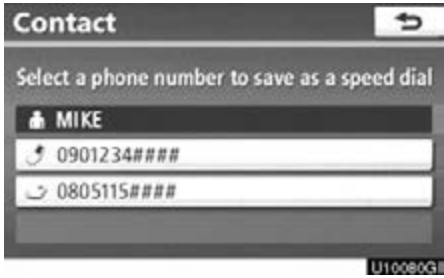
1. Push the "INFO-PHONE" button.
2. Touch "Phone".
3. Touch "Contacts".
4. Select the desired data from the list.



5. Touch "Options".



6. Touch "Set Speed Dial".

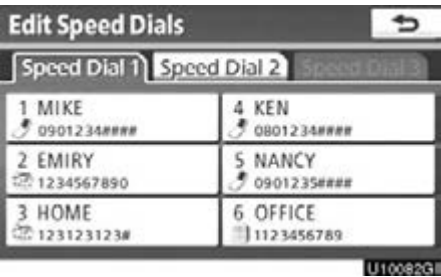


7. This screen is displayed.
The following operations are the same as the operation when you operate it from the “SETUP” button.

- Editing the speed dial
You can edit the speed dial.



1. Touch “Edit Speed Dials”.

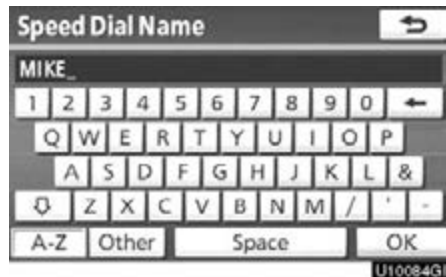


2. Touch the touch-screen button you want to edit.



3. Touch “Edit”.

SETUP



4. Use the software keyboard to input the name.



5. Touch "Save".

- **Deleting the speed dial**

You can delete the speed dial.



1. Touch "Delete Speed Dials".



2. Select the desired data or touch "Select All", then touch "Delete".

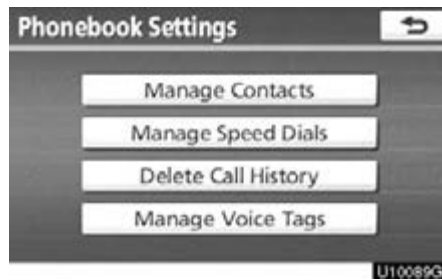
You can select multiple data and delete them at the same time.



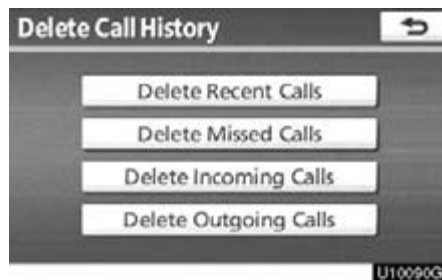
3. Touch “Yes”.

— Deleting call history

You can delete the call history.

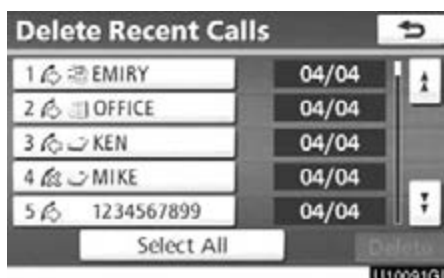


1. Touch “Delete Call History”.



2. Select the desired history to delete.

SETUP



3. Select the desired data or touch "Select All", then touch "Delete".

You can select multiple data and delete them at the same time.



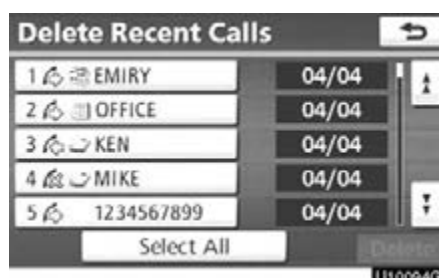
4. Touch "Yes".

You can also delete the call history in the following way.

1. Push the "INFO-PHONE" button.
2. Touch "Phone".
3. Touch "Call History".



4. Touch "Delete".



5. This screen is displayed.

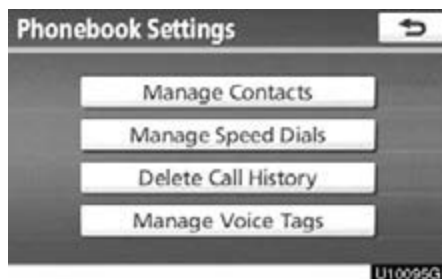
The following operations are the same as the operation when you operate it from the "SETUP" button.

You can similarly operate other call history.

— Setting the voice tag

“Setting the voice tag” is done by displaying “Voice Tags” screen.

1. Push the “SETUP” button.
2. Touch “Phone”.
3. Touch “Phonebook”.



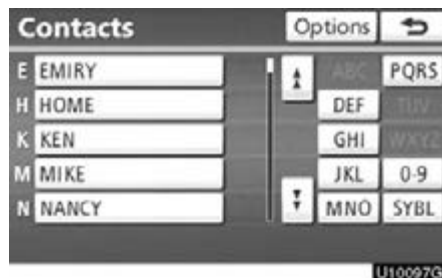
4. Touch “Manage Voice Tags”.



Please refer to the following pages for each setting.

You can also display “Voice Tags” screen in the following way.

1. Push the “INFO-PHONE” button.
2. Touch “Phone”.
3. Touch “Contacts”.



4. Touch “Options”.



5. Touch “Manage Voice Tags”.

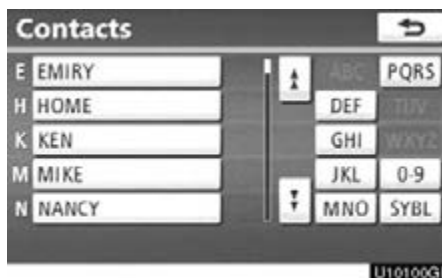
SETUP

- Registering the voice tag

You can register a voice tag for up to 20 numbers.



1. Touch "New Voice Tag".



2. Select the data you want to register.



3. Touch "● REC", and record a voice tag.



4. Touch "► Play" to play the voice tag.

When you complete the voice tag registration, touch "OK".

INFORMATION

When you use the voice tag, do not change the language setting from the language setting used when registering.

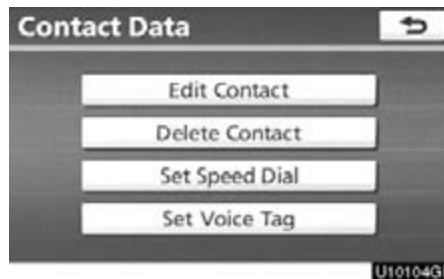
If they are different, the voice recognition can't recognize the voice tag that you have registered.

You can also register the voice tag in the following way.

1. Push the “INFO-PHONE” button.
2. Touch “Phone”.
3. Touch “Contacts”.
4. Select the desired data from the list.



5. Touch “Options”.



6. Touch “Set Voice Tag”.



7. This screen is displayed.

The following operations are the same as the operation when you operate it from the “SETUP” button.

SETUP

- Editing the voice tag



1. Touch "Edit Voice Tags".



2. Select the data you want to edit.



3. This screen is displayed.

The following operations are the same as the operation when you register the voice tag.

- Deleting the voice tag



1. Touch "Delete Voice Tags".



2. Select the desired data or touch "Select All", then touch "Delete".

You can select multiple data and delete them at the same time.

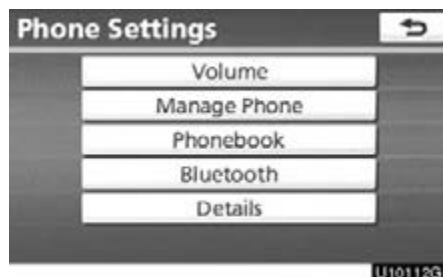


3. Touch "Yes".

— Bluetooth®

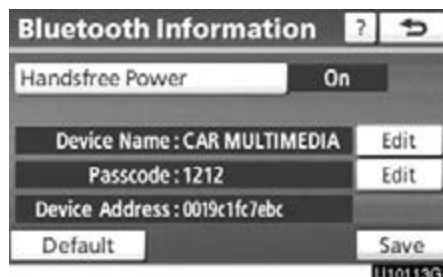
You can confirm and change the Bluetooth® settings.

1. Push the “SETUP” button.
2. Touch “Phone”.



3. Touch “Bluetooth*”.

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



4. This screen is displayed.

The information displays the following items.

“Device Name”

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

“Passcode”

..... The password when you register your cellular phone in the system. You can change it.

“Device Address”

..... The address peculiar to the system. You can not change it. If the same device name is displayed on the screen of your phone, refer to it.

If you want to change the settings, refer to the following pages.

When you change the settings, touch “Save” after changing them.

- **Changing the Bluetooth® settings**

You can change the Bluetooth® settings according to the following procedures.

Changing the handsfree power

The “Handsfree Power” display shows the following state.

When “Handsfree Power” is “On”:

The Bluetooth® phone is automatically connected when you put into the “POWER” switch to ACCESSORY or ON mode.

When “Handsfree Power” is “Off”:

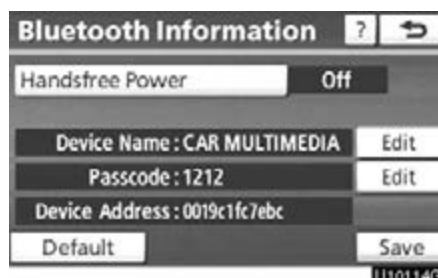
The Bluetooth® phone is disconnected, and the system will not connect to it next time.

You can select the state of “Handsfree Power”.

On: The auto connection is turned on.

Off: The auto connection is turned off.

You can not change the state from “On” into “Off” while driving.



1. Touch “Handsfree Power”.



2. Touch “On” or “Off”.



3. Touch “Save”.

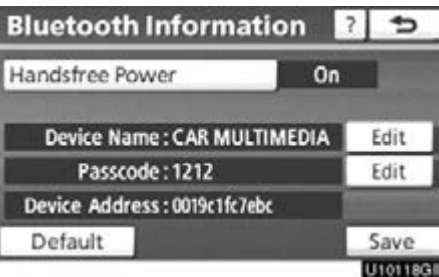
In case that the state of “Handsfree Power” is changed from “Off” into “On”, Bluetooth® connection will begin.

When you connect the phone while Bluetooth® audio is playing

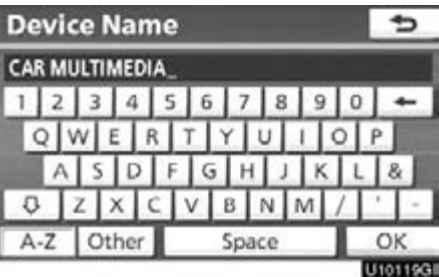


This screen is displayed, and the Bluetooth® audio will stop temporarily.

Editing the device name



1. Touch “Edit” of “Device Name”.



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

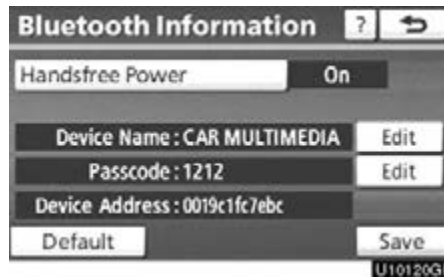
INFORMATION

The device names are common Bluetooth® audio and Bluetooth® phone.

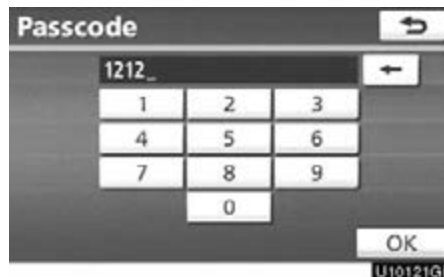
If you change the device name of the phone, the device name of the audio will change at same time.

However, passcodes can be set separately.

Editing the passcode



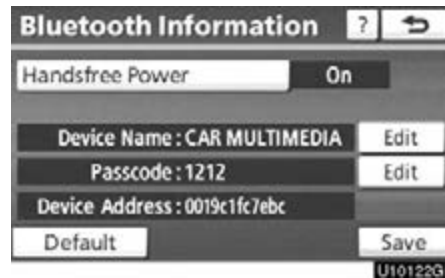
1. Touch "Edit" of "Passcode".



2. Input a passcode and touch "OK".

Initializing the Bluetooth® settings

You can initialize the settings.



1. Touch "Default".



2. Touch "Yes".

If the state of "Handsfree Power" is changed from "Off" into "On", Bluetooth® connection will begin.

If you connect a phone while Bluetooth® audio is playing

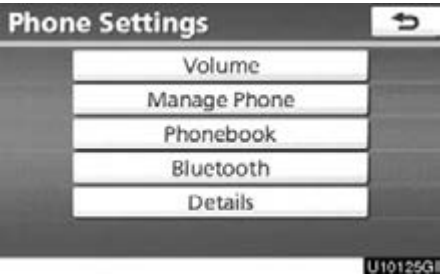


This screen is displayed, and the Bluetooth® audio will stop temporarily.

— Details

You can do the detail settings.

- 1. Push the “SETUP” button.
- 2. Touch “Phone”.



- 3. Touch “Details”.



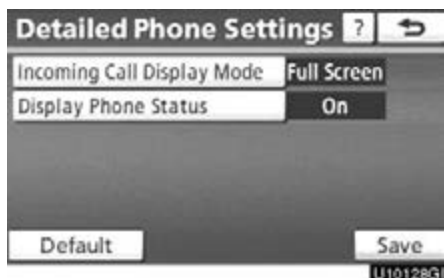
- 4. Do each setting according to the following procedures.
- 5. When you complete each setting, touch “Save”.

SETUP

- Incoming call display



You can select the method of the incoming call display.



1. Touch "Incoming Call Display Mode".



2. Touch "Full Screen" or "Drop Down".

"Full Screen" mode

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

"Drop Down" mode

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

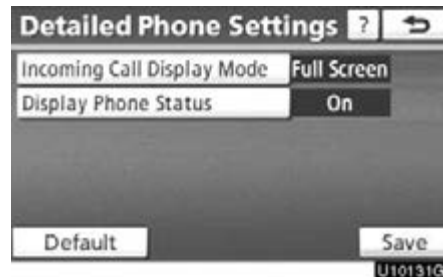
- The Bluetooth® connection status at start up



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

When “Display Phone Status” is “On”, this status is displayed.

When “Display Phone Status” is “Off”, this status is not displayed.



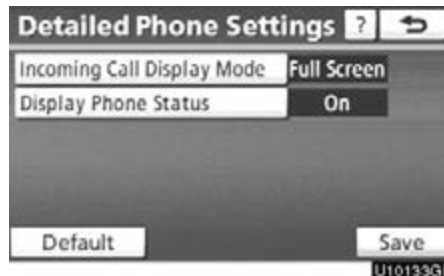
1. Touch “Display Phone Status”.



2. Touch “On” or “Off”.

- Initializing the settings

You can initialize the settings.



1. Touch “Default”.



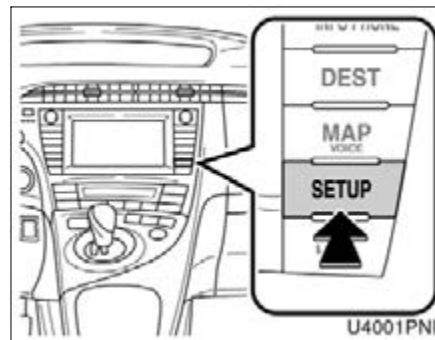
2. Touch “Yes”.

Audio Settings— —Select portable player

The portable player to connect can be selected. The registered audio information can be confirmed and edited.

- Selecting a portable player

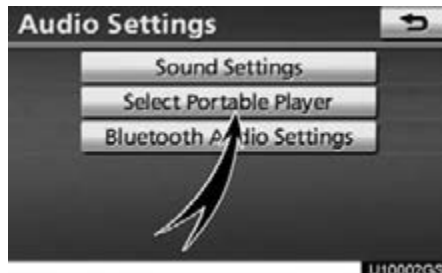
If you register a second portable player, either one can be selected for connection.



1. Push the “SETUP” button.



2. Touch “Audio” on “Setup” screen.



3. Touch “Select Portable Player” on “Audio setting” screen.

You can select from a maximum of two Bluetooth® portable players.

“Empty” is displayed when you have not registered a portable player yet. The Bluetooth® mark is displayed when you choose the portable player.



4. Select desired portable player and then touch “OK”.

Although you can register up to two portable players in the system, only one portable player can function at a time.

● **Displaying Bluetooth® information**

You can see or change the information of the portable player on the system.

“Device Name”

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

“Device Address”

... The address peculiar to the system. You cannot change it. If you have registered two Bluetooth® portable players with the same device name and you cannot distinguish one from the other, refer to it.

“Connection Method”

... The connection method can be switched between “From Vehicle” and “From Portable Player”.



Select the desired portable player and then touch “Portable Player Info”.

- Changing a device name

You can change a device name. Even if you change a device name, the name registered in your portable player is not changed.



1. Touch "Portable Player Info" on "Select Portable Player" screen.



2. Touch "Edit" for "Device Name" on "Portable Player Information" screen.



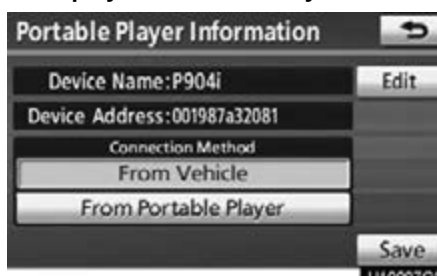
3. Use the software keyboard to input the device name.

- Selecting Connection method

The connection method can be selected.

From Vehicle: Connect the audio system to the portable player.

From Portable Player: Connect the portable player to the audio system.



Select desired connection method "From Vehicle" or "From Portable Player" and then touch "Save".

INFORMATION

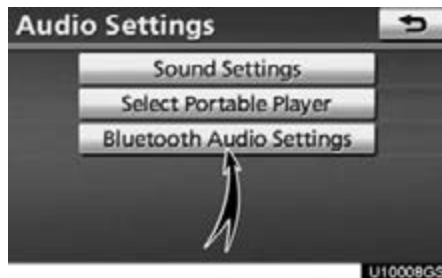
If the connection method is set to "From Portable Player", "Auto Bluetooth Connect" cannot be selected.*

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

—Setting Bluetooth® audio

The Bluetooth® audio settings can be set.

- Registering your portable player



1. Touch "Bluetooth* Audio Setting" on "Audio Settings" screen.



2. Touch "Register" of "Bluetooth* Audio" on "BT Audio Settings" screen.

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



3. When this screen is displayed, enter the passcode displayed on the screen into the portable player.

For the operation of the portable player, see the manual that comes with it.

If you want to cancel the entry, touch "Cancel".



4. When the connection is complete, this screen is displayed.

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



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

When another Bluetooth® device is connected



When another Bluetooth® device is currently connected, this screen is displayed. If you want to disconnect it, touch “Yes”.

INFORMATION

If the device corresponds with both Bluetooth® phone and Bluetooth® audio, register and connect the Bluetooth® phone first or a connection failure may occur when registering the Bluetooth® audio.

(a) Removing a Bluetooth® audio



1. Touch “Remove” of “Bluetooth* Audio” on “BT Audio Settings” screen.



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



3. Touch “Yes” to unregister the selected portable player.

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



If the selected portable player is in use, this screen will appear. Touch "Yes". The system will disconnect the portable player and remove it.

(b) Connecting Bluetooth® audio AUTOMATICALLY



Touch "On" for "Auto Bluetooth* connect" to activate the automatic connection for the Bluetooth®. Always set it to this mode and leave the Bluetooth® portable player in a condition where connection can be established. The "Auto Bluetooth* Connect" cannot be selected if the connection method is set to "From Portable Player".

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



When the "POWER" switch is in ACCESSORY or ON mode, the selected portable player will be automatically connected and the connection result is displayed.

SETUP

MANUALLY

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

For the manual operation, see page 176.

(c) Changing the passcode

The passcode for registering your portable player on the system. You can change this to 4 to 8 digit number of your choice. The default is "0000".



1. Touch "Edit" of "Passcode" on "BT Audio Settings" screen.



2. Enter the new 4-8 digits passcode and touch "OK".

Each time you touch , an input digit is deleted.

(d) Changing the device name

You can change a device name. Even if you change a device name, the name registered your portable player is not changed.



1. Touch "Edit" of "Device Name" on "BT Audio Settings" screen.



2. Enter the new device name and touch "OK".

INFORMATION

The device names are common Bluetooth® audio and Bluetooth® phone.

If you change the device name of the audio, the device name of the phone will change at same time.

However, passcodes can be set separately.

(e) Initializing the Bluetooth® audio settings

You can initialize the settings.



1. Touch "Default" on "BT Audio Settings" screen.



2. Touch "Yes".

SETUP

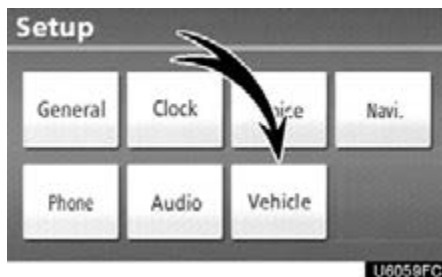
Vehicle Settings — — Maintenance

When the navigation system is turned on, the “Information” screen displays when it is time to replace a part or certain components. (See page 27.)

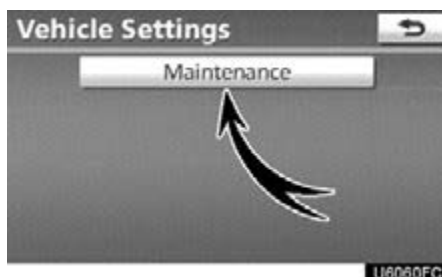


- Setting maintenance information (See page 301.)
- Setting dealer (See page 302.)

1. Push the “SETUP” button.



2. Touch “Vehicle”.



3. Touch “Maintenance”.

(a) Maintenance information setting

1. Push the “SETUP” button.
2. Touch “Vehicle” on the “Setup” screen.
3. Touch “Maintenance” on the “Vehicle Settings” screen.



4. Touch the desired button.

For details of each touch screen button, see “INFORMATION ITEMS” on page 301.

“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 dealer information. (See “(b) Dealer setting” on page 302.)

“Dealer Info.”: To edit dealer information. (See “(b) Dealer setting” on page 302.)

“Reminder”: When this button is touched, the indicator is illuminated. The system is set to give maintenance information with the “Information” screen. (See page 27.)

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

INFORMATION ITEMS

“Engine oil”: Replace engine oil

“Oil filter”: Replace engine oil filter

“Rotation”: Rotate tires

“Tires”: Replace tires

“Battery”: Replace 12 volt battery

“Brake pad”: Replace brake linings

“Wipers”: Replace wiper blades

“Coolant”: Replace engine and inverter coolant

“Brake oil”: Replace brake fluid

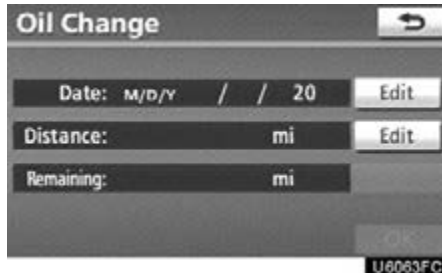
“Trans. fluid”: Replace transmission fluid

“Service”: Scheduled maintenance

“Air filter”: Replace air filter

“Personal”: New information items can be created separately from provided ones.

SETUP



5. Input the conditions.

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

“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.

6. Touch “OK”.

The screen then returns to the “Maintenance” screen.

INFORMATION

- For scheduled maintenance information, please refer to the “Scheduled Maintenance Guide” or “Owner’s Manual Supplement”.
- Depending on driving or road conditions, the actual date and distance may differ from the stored date and distance in the system.

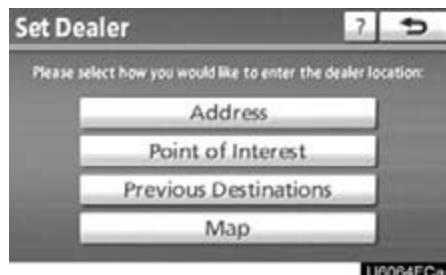
(b) Dealer setting

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

1. Push the “SETUP” button.
2. Touch “Vehicle” on the “Setup” screen.
3. Touch “Maintenance” on the “Vehicle Settings” screen.

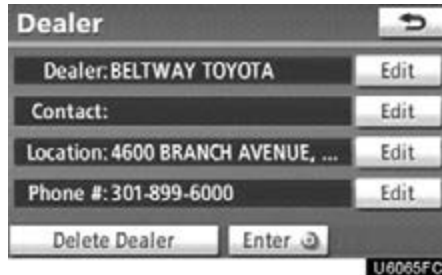


4. Touch “Set Dealer”.



5. 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 50.)

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



6. Touch “Edit” for the item you want to change.

“Dealer”: To enter the name of a dealer. (See page 303.)

“Contact”: To enter the name of a dealer member. (See page 303.)

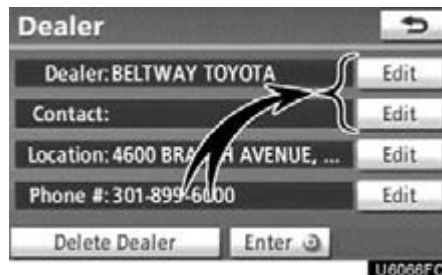
“Location”: To set a location. (See page 304.)

“Phone #”: To set a telephone number. (See page 304.)

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

“Enter 

● To edit “Dealer” or “Contact”



1. Touch “Edit” of “Dealer” or “Contact”.



2. Enter the name using the alphanumeric keys.

Up to 32 characters can be entered.

3. Touch “OK”.

The previous screen will be displayed.

SETUP

- To edit "Location"



1. Touch "Edit" of "Location".



2. Touch the 8 directional touch screen button to move the cursor  to the desired point on the map.

3. Touch "OK".

The previous screen will be displayed.

- To edit "Phone #" (telephone number)



1. Touch "Edit" of "Phone #".



2. Enter the number using number keys.

3. Touch "OK".

The previous screen will be displayed.

SECTION 9

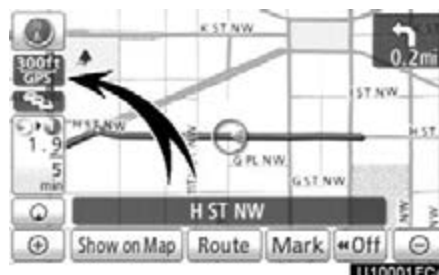
APPENDIX

- [Limitations of the navigation system](#) 306
- [Map database information and updates](#) 308
 - [Changing the map DVD-ROM](#) 317

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 case 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 300 feet (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 motorway 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 tire chains installed.
- When the tires are worn.
- After replacing a tire or tires.
- When using tires that are smaller or larger than the factory specifications.
- When the tire pressure in any of the four tires is not correct.

INFORMATION

If your vehicle cannot receive GPS signals, you can correct the current position manually. For information on setting the current position calibration, see page 251.

(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.

Map database information and updates —

After replacing a tire, implement the operation described in the “TIRE CHANGE CALIBRATION”. (See page 252.)

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

This system uses the maps of DENSO.

© 2008 DENSO CORPORATION

© 2007 NAVTEQ. All rights reserved.

© 2007 Tele Atlas North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

Data by infoUSA Copyright © 2007, All Rights Reserved.

© 2007 VISA Corporation

Copyright © CoStar Realty Information Inc.

The Bullseye Design is a registered trademark of Target Brands, Inc.

END USER LICENSE AGREEMENT

PLEASE READ THIS AGREEMENT CAREFULLY BEFORE USING THE NAVIGATION SYSTEM

THIS IS A LICENSE AGREEMENT FOR YOUR COPY OF THE SPATIAL MAP DATABASE, INCLUDING LOCATION CODES AND RELATED PRODUCTS (COLLECTIVELY, THE "DATABASE"), USED IN THE NAVIGATION SYSTEM. BY USING THE NAVIGATION SYSTEM AND THE DATABASE, YOU ACCEPT AND AGREE TO BE BOUND BY ALL TERMS AND CONDITIONS SET FORTH BELOW.

LICENSE GRANT

DENSO CORPORATION ("DENSO"), as a licensed distributor of the DATABASE, grants to you a non-exclusive, non-perpetual license to use your copy of the DATABASE for your personal use or for your use in your business' internal operations and not for any other purpose. This license does not include the right to grant sub-licenses.

OWNERSHIP

The DATABASE and the copyrights and intellectual property and neighboring rights therein are owned by Tele Atlas North America, Inc. ("TANA") and its licensors. This Agreement does not transfer any title or interest in the DATABASE, except for the license to use the DATABASE according and subject to the terms and conditions of this Agreement. You shall not alter, obscure or remove any copyright notices, trademark notices or other restrictive legends relating to the DATABASE.

The DATABASE comprises confidential and proprietary information and materials of TANA. Accordingly, you shall hold the DATABASE in confidence and trust. You shall take reasonable steps to protect the DATABASE from misappropriation or misuse. You shall not extract stand-alone data from or publish any part of the DATABASE without the prior written consent of TANA and its licensors.

LIMITATIONS ON USE

The DATABASE is restricted for use in the specific system for which it was created. Except to the extent explicitly permitted by mandatory laws, you may not extract or reutilize any portion of the contents of the DATABASE, nor reproduce, copy, duplicate, modify, adapt, translate, disassemble, decompile, or reverse engineer any portion of the DATABASE.

TRANSFER

You may not transfer the DATABASE to third parties, except together with the system for which it was created, provided that you do not retain any copy of the DATABASE, and provided that the transferee agrees to all terms and conditions of this AGREEMENT.

DISCLAIMER OF WARRANTY

THE DATABASE IS PROVIDED ON AN "AS IS" AND "WITH ALL FAULTS BASIS" AND DENSO AND TANA (AND THEIR LICENSORS AND SUPPLIERS) EXPRESSLY DISCLAIM ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY, SATISFACTORY QUALITY, ACCURACY, TITLE AND FITNESS FOR A PARTICULAR PURPOSE. NO ORAL OR WRITTEN ADVICE OR INFORMATION PROVIDED BY DENSO OR TANA (OR ANY OF THEIR LICENSORS, AGENTS, EMPLOYEES OR THIRD PARTY PROVIDERS) SHALL CREATE A WARRANTY, AND YOU ARE NOT ENTITLED TO RELY ON ANY SUCH ADVICE OR INFORMATION. THIS DISCLAIMER OF WARRANTIES IS AN ESSENTIAL CONDITION OF THIS AGREEMENT.

LIMITATION OF LIABILITY

IN NO EVENT SHALL DENSO OR TANA (OR THEIR LICENSORS OR SUPPLIERS) BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT OR EXEMPLARY DAMAGES ARISING OUT OF THIS AGREEMENT OR YOUR USE OF THE DATABASE, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR COSTS OF COVER, LOSS OF USE OR BUSINESS INTERRUPTION OR THE LIKE, REGARDLESS OF WHETHER THE PARTY WAS ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

IN NO EVENT WILL THE TOTAL LIABILITY OF DENSO OR TANA (OR THEIR LICENSORS OR SUPPLIERS) EXCEED THE AMOUNTS PAID BY YOU FOR THE DATABASE.

WARNINGS

The DATABASE comprises facts and information from government and other sources reflecting circumstances in existence before you received the DATABASE, which may contain errors and omissions. Accordingly, the DATABASE may contain inaccurate or incomplete information due to the passage of time, changing circumstances, and due to the nature of the sources used. The DATABASE does not include or reflect information relating to, among other things, neighborhood safety; law enforcement; emergency assistance; construction work; road or lane closures; vehicle or speed restrictions; road slope or grade; bridge height, weight or other limits; road or traffic conditions; special events; traffic congestion; or travel time.

U.S. GOVERNMENT RIGHTS

If you are an agency, department, or other entity of the United States Government, or funded in whole or in part by the United States Government, then use, duplication, reproduction, release, modification, disclosure or transfer of this commercial product and accompanying documentation, is restricted in accordance with the LIMITED or RESTRICTED rights as described in DFARS 252.227-7014(a)(1) (JUN 1995) (DOD commercial computer software definition), DFARS 227.7202-1 (DOD policy on commercial computer software), FAR 52.227-19 (JUN 1987) (commercial computer software clause for civilian agencies), DFARS 252.227-7015 (NOV 1995) (DOD technical data – commercial items clause); FAR 52.227-14 Alternates I, II, and III (JUN 1987) (civilian agency technical data and noncommercial computer software clause); and/or FAR 12.211 and FAR 12.212 (commercial item acquisitions), as applicable. In case of conflict between any of the FAR and DFARS provisions listed herein and this Agreement, the construction that provides greater limitations on the Government's rights shall control.

Contractor/manufacturer is Tele Atlas North America, Inc., 11 Lafayette Street, Lebanon, NH 03766-1445. Phone: 603.643.0330. The DATABASE is ©1984-2007 by Tele Atlas North America, Inc. ALL RIGHTS RESERVED. For purpose of any public disclosure provision under any federal, state or local law, it is agreed that the DATABASE is a trade secret and a proprietary commercial product and not subject to disclosure.

If you are an agency, department, or other entity of any State government, the United States Government or any other public entity or funded in whole or in part by the United States Government, then you hereby agree to protect the DATABASE from public disclosure and to consider the DATABASE exempt from any statute, law, regulation, or code, including any Sunshine Act, Public Records Act, Freedom of Information Act, or equivalent, which permits public access and/or reproduction or use of the Licensed Products. In the event that such exemption is challenged under any such laws, this Agreement shall be considered breached and any and all right to retain any copies or to use of the DATABASE shall be terminated and considered immediately null and void. Any copies of the DATABASE held by you shall immediately be destroyed. If any court of competent jurisdiction considers this clause void and unenforceable, in whole or in part, for any reason, this Agreement shall be considered terminated and null and void, in its entirety, and any and all copies of the DATABASE shall immediately be destroyed.

END USER TERMS

The data ("Data") is provided for your personal, internal use only and not for resale. It is protected by copyright, and is subject to the following terms and conditions which are agreed to by you, on the one hand, and DENSO CORPORATION ("DENSO") and its licensors (including their licensors and suppliers) on the other hand.

© 2007 NAVTEQ. All rights reserved.

The Data for areas of Canada includes information taken with permission from Canadian authorities, including: © Her Majesty the Queen in Right of Canada, © Queen's Printer for Ontario, © Canada Post Corporation, GeoBase®.

NAVTEQ holds a non-exclusive license from the United States Postal Service® to publish and sell ZIP+4® information.

©United States Postal Service®2007. Prices are not established, controlled or approved by the United States Postal Service®. The following trademarks and registrations are owned by the USPS: United States Postal Service, USPS, and ZIP+4.

TERMS AND CONDITIONS

Personal Use Only. You agree to use this Data together with vehicle navigation system for the solely personal, non-commercial purposes for which you were licensed, and not for service bureau, time-sharing or other similar purposes. Accordingly, but subject to the restrictions set forth in the following paragraphs, you may copy this Data only as necessary for your personal use to (i) view it, and (ii) save it, provided that you do not remove any copyright notices that appear and do not modify the Data in any way. You agree not to otherwise reproduce, copy, modify, decompile, disassemble or reverse engineer any portion of this Data, and may not transfer or distribute it in any form, for any purpose, except to the extent permitted by mandatory laws. Multi-disc sets may only be transferred or sold as a complete set as provided by DENSO and not as a subset thereof.

Restrictions. Except where you have been specifically licensed to do so by DENSO, and without limiting the preceding paragraph, you may not (a) use this Data with any products, systems, or applications installed or otherwise connected to or in communication with vehicles, capable of vehicle navigation, positioning, dispatch, real time route guidance, fleet management or similar applications; or (b) with or in communication with any positioning devices or any mobile or wireless-connected electronic or computer devices, including without limitation cellular phones, palmtop and handheld computers, pagers, and personal digital assistants or PDAs.

Warning. The Data may contain inaccurate or incomplete information due to the passage of time, changing circumstances, sources used and the nature of collecting comprehensive geographic data, any of which may lead to incorrect results.

No Warranty. This Data is provided to you "as is," and you agree to use it at your own risk. DENSO and its licensors (and their licensors and suppliers) make no guarantees, representations or warranties of any kind, express or implied, arising by law or otherwise, including but not limited to, content, quality, accuracy, completeness, effectiveness, reliability, fitness for a particular purpose, usefulness, use or results to be obtained from this Data, or that the Data or server will be uninterrupted or error-free.

Disclaimer of Warranty: DENSO AND ITS LICENSORS (INCLUDING THEIR LICENSORS AND SUPPLIERS) DISCLAIM ANY WARRANTIES, EXPRESS OR IMPLIED, OF QUALITY, PERFORMANCE, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. Some States, Territories and Countries do not allow certain warranty exclusions, so to that extent the above exclusion may not apply to you.

Disclaimer of Liability: DENSO AND ITS LICENSORS (INCLUDING THEIR LICENSORS AND SUPPLIERS) SHALL NOT BE LIABLE TO YOU: IN RESPECT OF ANY CLAIM, DEMAND OR ACTION, IRRESPECTIVE OF THE NATURE OF THE CAUSE OF THE CLAIM, DEMAND OR ACTION ALLEGING ANY LOSS, INJURY OR DAMAGES, DIRECT OR INDIRECT, WHICH MAY RESULT FROM THE USE OR POSSESSION OF THE INFORMATION; OR FOR ANY LOSS OF PROFIT, REVENUE, CONTRACTS OR SAVINGS, OR ANY OTHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF YOUR USE OF OR INABILITY TO USE THIS INFORMATION, ANY DEFECT IN THE INFORMATION, OR THE BREACH OF THESE TERMS OR CONDITIONS, WHETHER IN AN ACTION IN CONTRACT OR TORT OR BASED ON A WARRANTY, EVEN IF DENSO OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some States, Territories and Countries do not allow certain liability exclusions or damages limitations, so to that extent the above may not apply to you.

APPENDIX

Export Control. You agree not to export from anywhere any part of the Data provided to you or any direct product thereof except in compliance with, and with all licenses and approvals required under, applicable export laws, rules and regulations.

Entire Agreement. These terms and conditions constitute the entire agreement between DENSO (and its licensors, including their licensors and suppliers) and you pertaining to the subject matter hereof, and supersedes in their entirety any and all written or oral agreements previously existing between us with respect to such subject matter.

Governing Law. The above terms and conditions shall be governed by the laws of the State of Illinois, without giving effect to (i) its conflict of laws provisions, or (ii) the United Nations Convention for Contracts for the International Sale of Goods, which is explicitly excluded. You agree to submit to the jurisdiction of the State of Illinois for any and all disputes, claims and actions arising from or in connection with the Data provided to you hereunder.

Government End Users. If the Data is being acquired by or on behalf of the United States government or any other entity seeking or applying rights similar to those customarily claimed by the United States government, this Data is a "commercial item" as that term is defined at 48 C.F.R. ("FAR") 2.101, is licensed in accordance with these End-User Terms, and each copy of Data delivered or otherwise furnished shall be marked and embedded as appropriate with the following "Notice of Use", and shall be treated in accordance with such Notice:

NOTICE OF USE

CONTRACTOR (MANUFACTURER/
SUPPLIER) NAME: NAVTEQ

CONTRACTOR (MANUFACTURER/
SUPPLIER) ADDRESS:
425 West Randolph Street,
Chicago, Illinois 60606

This Data is a commercial item as defined in FAR 2.101 and is subject to these End-User Terms under which this Data was provided.

©2007 NAVTEQ – All rights reserved.

If the Contracting Officer, federal government agency, or any federal official refuses to use the legend provided herein, the Contracting Officer, federal government agency, or any federal official must notify NAVTEQ prior to seeking additional or alternative rights in the Data.

END USER NOTICE**PLEASE READ THIS NOTICE CAREFULLY BEFORE USING THIS NAVIGATION SYSTEM**

The Point Of Interest Data ("POI" Data) in the navigation system is in part provided by infoUSA Inc. ("infoUSA"). By using the POI Data, you accept and agree to all terms and conditions set forth below.

1. Ownership

All rights, title and interest to the infoUSA POI Data shall be retained by infoUSA.

2. Limitations on use

Except to the extent explicitly permitted by mandatory laws, you may not extract or re-utilize any portion of the contents of the POI Data, nor reproduce, copy, modify, adapt, translate, disassemble, decompile, or reverse engineer any portion of the POI Data.

3. Transfer

You may not transfer the POI Data to third parties, except together with the system for which it was created, provided that you do not retain any copy of the POI Data.

4. Disclaimer of warranty

EXCEPT AS STATED HEREIN, INFOUSA MAKES NO EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, ANY EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR WARRANTY OF MERCHANTABILITY.

5. Limitation of liability

EITHER INFOUSA OR SUPPLIER OF POI DATA SHALL NOT BE LIABLE FOR ANY INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES MADE OR ALLEGED IN CONNECTION WITH YOUR USE OF THE POI DATA.

END USER LICENSE AGREEMENT

Personal Use Only. You agree to use this information for solely personal, non-commercial purposes, and not for service bureau, time-sharing or other similar purposes. You may not modify the information or remove any copyright notices that appear on the information in any way. You may not decompile, disassemble or reverse engineer any portion of this information, and may not transfer or distribute it in any form, for any purpose. Without limiting the foregoing, you may not use this information with any products, systems, or applications installed or otherwise connected to or in communication with vehicles, capable of vehicle navigation, positioning, dispatch, real time route guidance, fleet management or similar applications.

No Warranty. This information is provided to you "as is," and you agree to use it at your own risk. DENSO and its licensors (and their licensors and suppliers, collectively "DENSO") make no guarantees, representations or warranties of any kind, express or implied, arising by law or otherwise, including but not limited to, and DENSO expressly disclaims any warranties regarding content, quality, accuracy, completeness, effectiveness, reliability, fitness for a particular purpose, non-infringement, usefulness, use or results to be obtained from this information, or that the information or server will be uninterrupted or error-free. Some states, territories and countries do not allow certain warranty exclusions, so to that extent, the above exclusion may not apply to you.

Disclaimer of Liability: DENSO SHALL NOT BE LIABLE TO YOU FOR ANY CLAIM, DEMAND OR ACTION, IRRESPECTIVE OF ITS NATURE, ALLEGING ANY LOSS, INJURY OR DAMAGES, WHETHER DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES, INCLUDING ANY LOSS OF PROFIT, REVENUE OR CONTRACTS ARISING OUT OF YOUR POSSESSION, USE OF OR INABILITY TO USE THIS INFORMATION, ANY DEFECT IN THE INFORMATION, OR THE BREACH OF THESE TERMS OR CONDITIONS, WHETHER IN AN ACTION IN CONTRACT OR TORT OR BASED ON A WARRANTY, EVEN IF DENSO OR ITS LICENSORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. Some states, territories and countries do not allow certain liability exclusions or damages limitations, so to that extent the above may not apply to you.

Indemnity. You agree to indemnify, defend and hold DENSO and its licensors (including their respective licensors, suppliers, assignees, subsidiaries, affiliated companies, and the respective officers, directors, employees, shareholders, agents and representatives of each of them) free and harmless from and against any liability, loss, injury (including injuries resulting in death), demand, action, cost, expense, or claim of any kind or character, including but not limited to attorney's fees, arising out of or in connection with any use or possession by you of this information.

END USER NOTICE

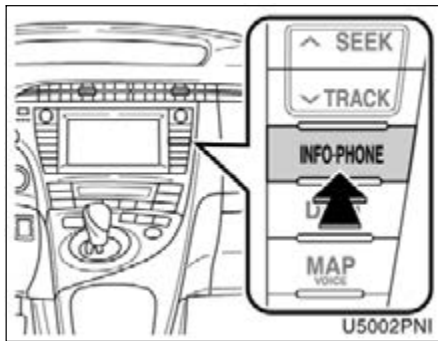
The marks of companies displayed by this product to indicate business locations are the marks of their respective owners. The use of such marks in this product does not imply any sponsorship, approval, or endorsement by such companies of this product.

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

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 Toyota dealer for information about the availability and pricing of an update.

— Changing the map DVD-ROM



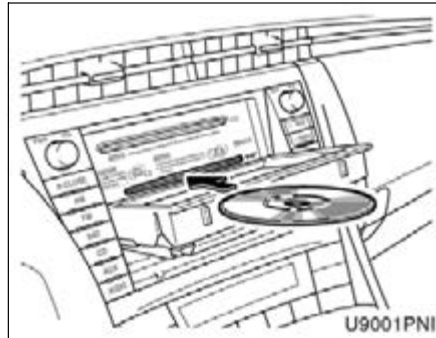
1. Push the “INFO-PHONE” button.



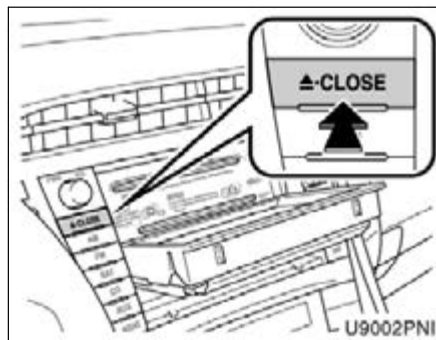
2. Touch “Map Data”.



3. Touch “▲ DVD”.



4. Insert a new map DVD-ROM with the label side up.



5. Push the “▲·CLOSE” button to close the display.

CAUTION

- Do not place anything on the opened display, as such items may be thrown about and possibly injure people in the vehicle during sudden braking or in an accident.
- To reduce the chance of injury in the case of an accident or sudden stopping while driving, keep the display closed.
- Take care not to jam your hand while the display is moving. Otherwise, you could be injured.

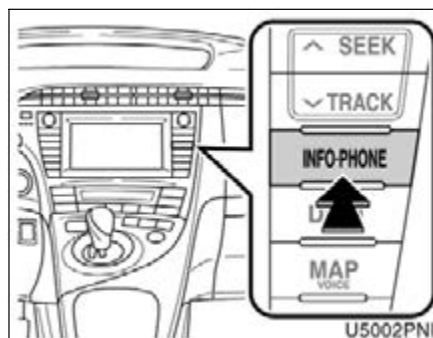
NOTICE

- Do not obstruct the display while it is moving. It could damage your navigation system.
- If a disc cannot be ejected, do not forcibly take out the disc. Keep pushing the “▲·CLOSE” button for approximately 5 seconds and release it. At this time, the audio disc and the map DVD-ROM will be ejected.

INFORMATION

Under extremely cold conditions, the display may react slowly or operation sound may become louder.

- To confirm the database version and disc coverage area



1. Push the “INFO-PHONE” button.



2. Touch “Map Data”.



Make sure the version of the database on this screen.

To display the disc coverage area, touch “**Map Data Coverage**”. Confirm the covered area on the screen.

Contact your Toyota dealer to find out if there is a more recent update released.